

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042219\
 Data File : VN055173.D
 Acq On : 22 Apr 2019 11:03
 Operator : JC/SP
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 4/23/2019 1:46:48 PM

Quant Time: Apr 23 05:14:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042219W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 23 04:56:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	463871	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	736272	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	655049	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	281058	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	591204	86.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	173.66%	
35) Dibromofluoromethane	7.59	113	474262	89.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	179.54%	
50) Toluene-d8	10.09	98	1802452	94.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	188.48%	
62) 4-Bromofluorobenzene	12.40	95	609865	101.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	202.38%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	616480	103.219	ug/l	99
3) Chloromethane	2.06	50	713120	97.441	ug/l	99
4) Vinyl Chloride	2.19	62	568151	96.883	ug/l	98
5) Bromomethane	2.55	94	309276	90.940	ug/l	98
6) Chloroethane	2.70	64	298184	94.036	ug/l	99
7) Trichlorofluoromethane	3.01	101	771380	96.660	ug/l	97
8) Diethyl Ether	3.41	74	285730	100.312	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	459138	92.200	ug/l	98
10) Methyl Iodide	3.95	142	729381	109.019	ug/l	100
11) Tert butyl alcohol	4.79	59	185696	515.543	ug/l	98
12) 1,1-Dichloroethene	3.74	96	462263	96.861	ug/l	98
13) Acrolein	3.61	56	284020	579.104	ug/l	100
14) Allyl chloride	4.32	41	936664	99.280	ug/l	99
15) Acrylonitrile	4.99	53	1006005	500.430	ug/l	99
16) Acetone	3.82	43	954518	459.878	ug/l	100
17) Carbon Disulfide	4.05	76	1387277	103.977	ug/l	100
18) Methyl Acetate	4.33	43	443250	77.377	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	1309147	99.216	ug/l	99
20) Methylene Chloride	4.55	84	529801	88.789	ug/l	100
21) trans-1,2-Dichloroethene	5.04	96	487671	97.447	ug/l	96
22) Diisopropyl ether	5.95	45	1845407	98.128	ug/l	99
23) Vinyl Acetate	5.90	43	6828129	540.304	ug/l	100
24) 1,1-Dichloroethane	5.85	63	959355	94.840	ug/l	100
25) 2-Butanone	6.83	43	1318961	492.212	ug/l	99
26) 2,2-Dichloropropane	6.82	77	688179	100.534	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	552955	95.851	ug/l	98
28) Bromochloromethane	7.19	49	486069	94.266	ug/l	100
29) Tetrahydrofuran	7.21	42	826483	490.715	ug/l	100
30) Chloroform	7.37	83	899662	93.500	ug/l	98
31) Cyclohexane	7.65	56	931611	80.210	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	760531	98.384	ug/l	99
36) 1,1-Dichloropropene	7.79	75	712960	104.329	ug/l	100
37) Ethyl Acetate	6.93	43	549102	96.170	ug/l	98
38) Carbon Tetrachloride	7.77	117	655949	96.068	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	807700	99.073	ug/l	99
40) Benzene	8.04	78	2082255	98.707	ug/l	99
41) Methacrylonitrile	7.17	41	285481	101.419	ug/l	90
42) 1,2-Dichloroethane	8.12	62	711860	96.727	ug/l	100
43) Isopropyl Acetate	8.16	43	958572	107.334	ug/l	100
44) Trichloroethene	8.83	130	525544	98.567	ug/l	98
45) 1,2-Dichloropropane	9.12	63	584212	98.109	ug/l	98
46) Dibromomethane	9.21	93	328038	96.233	ug/l	99
47) Bromodichloromethane	9.40	83	706806	103.576	ug/l	98
48) Methyl methacrylate	9.20	41	463789	107.060	ug/l	98
49) 1,4-Dioxane	9.20	88	98306	1965.022	ug/l	99
51) 4-Methyl-2-Pentanone	9.99	43	2664170	518.422	ug/l	99
52) Toluene	10.16	92	1234336	99.811	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	726176	115.956	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	849384	109.294	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	450770	98.868	ug/l	99
56) Ethyl methacrylate	10.43	69	644984	113.559	ug/l	100
57) 1,3-Dichloropropane	10.71	76	800898	100.965	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	1132577	618.491	ug/l	100
59) 2-Hexanone	10.75	43	1708812	526.431	ug/l	99
60) Dibromochloromethane	10.90	129	505640	107.671	ug/l	100
61) 1,2-Dibromoethane	11.00	107	452398	105.537	ug/l	100
64) Tetrachloroethene	10.63	164	478598	89.562	ug/l	98
65) Chlorobenzene	11.43	112	1270181	95.000	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	484947	97.862	ug/l	100
67) Ethyl Benzene	11.51	91	2345744	98.492	ug/l	100
68) m/p-Xylenes	11.62	106	1704786	199.575	ug/l	100
69) o-Xylene	11.95	106	829754	97.881	ug/l	99
70) Styrene	11.96	104	1401806	106.681	ug/l	99
71) Bromoform	12.13	173	328723	111.163	ug/l #	99
73) Isopropylbenzene	12.25	105	2194360	81.328	ug/l	100
74) N-amyl acetate	12.07	43	748494	103.294	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	553908	77.574	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	490867m	93.192	ug/l	
77) Bromobenzene	12.53	156	538865	86.847	ug/l	98
78) n-propylbenzene	12.59	91	2499838	88.690	ug/l	99
79) 2-Chlorotoluene	12.67	91	1498740	84.207	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	1824967	86.738	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	152482	101.375	ug/l	95
82) 4-Chlorotoluene	12.77	91	1487534	90.839	ug/l	99
83) tert-Butylbenzene	12.99	119	1536690	81.641	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1807554	91.037	ug/l	97
85) sec-Butylbenzene	13.17	105	1993829	83.764	ug/l	99
86) p-Isopropyltoluene	13.29	119	1773110	90.417	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	904838	94.997	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	885891	95.527	ug/l	98
89) n-Butylbenzene	13.61	91	1519814	104.559	ug/l	99
90) Hexachloroethane	13.87	117	310280	89.214	ug/l	100
91) 1,2-Dichlorobenzene	13.65	146	873122	89.247	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	83687	98.056	ug/l	99

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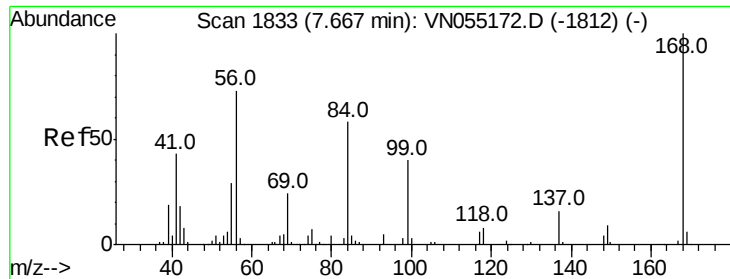
Manual Integrations
APPROVED

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	432554	125.240	ug/l	100
94) Hexachlorobutadiene	15.01	225	274897	78.511	ug/l	97
95) Naphthalene	15.13	128	960421	131.635	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	423984	117.997	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN055173.D

Acq: 22 Apr 2019 11:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:168 Resp: 463871

Ion Ratio Lower Upper

168 100

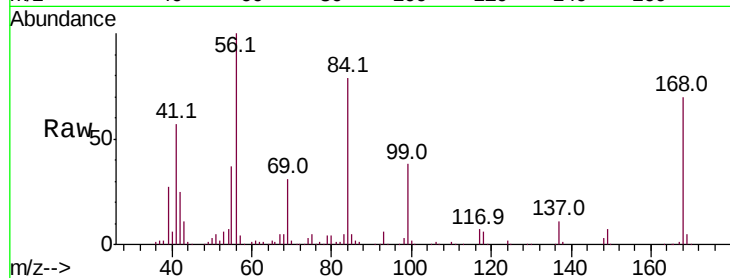
99 53.8 42.0 63.0

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

200000

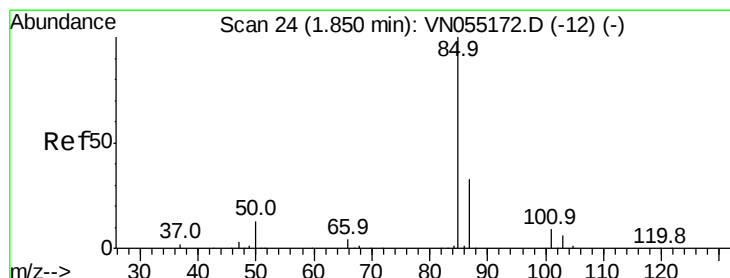
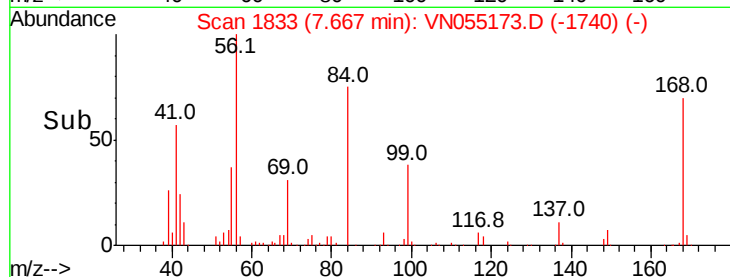
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 103.219 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN055173.D

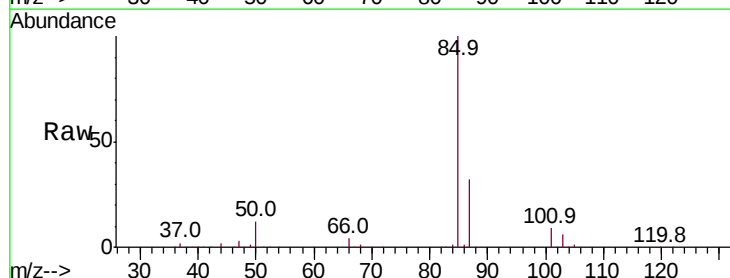
Acq: 22 Apr 2019 11:03

Tgt Ion: 85 Resp: 616480

Ion Ratio Lower Upper

85 100

87 32.3 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

500000

400000

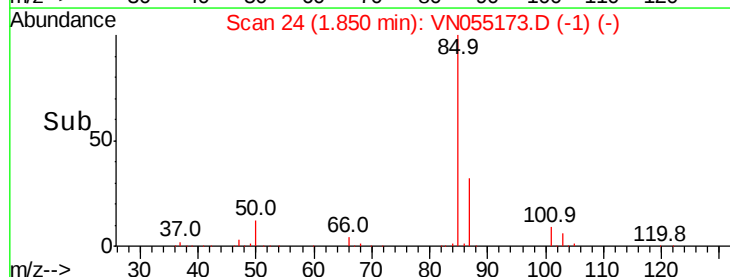
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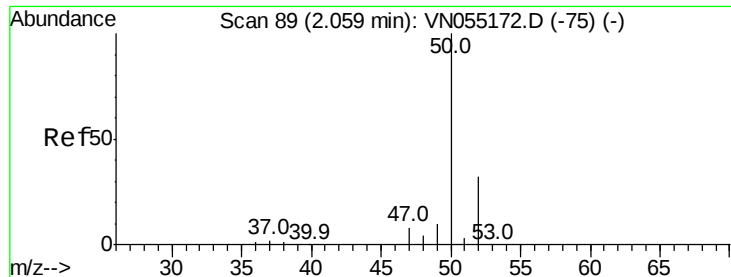
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Time-->





#3

Chloromethane

Concen: 97.441 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN055173.D

Acq: 22 Apr 2019 11:03

Instrument :

MSVOA_N

ClientSampled :

VSTDICC100

Tot Ion: 50 Resp: 713120

Ion Ratio Lower Upper

50 100

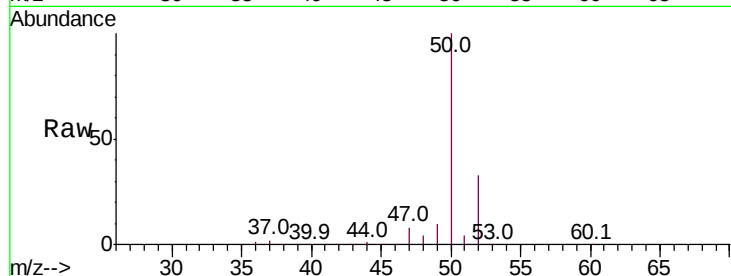
52 32.9 25.8 38.6

Manual Integrations

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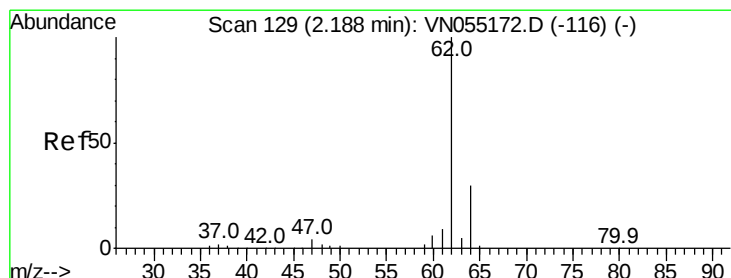
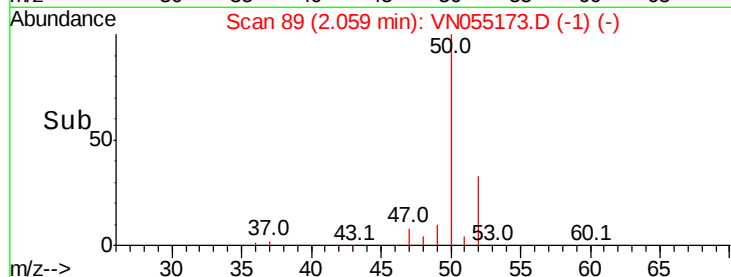
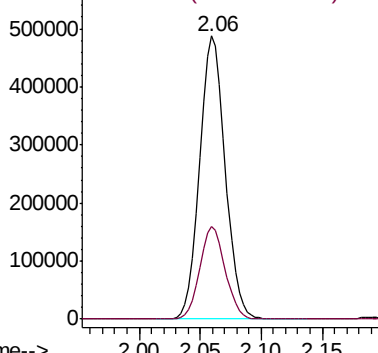
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Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



#4

Vinyl Chloride

Concen: 96.883 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN055173.D

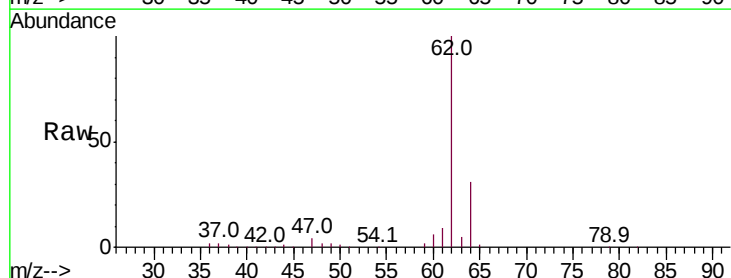
Acq: 22 Apr 2019 11:03

Tgt Ion: 62 Resp: 568151

Ion Ratio Lower Upper

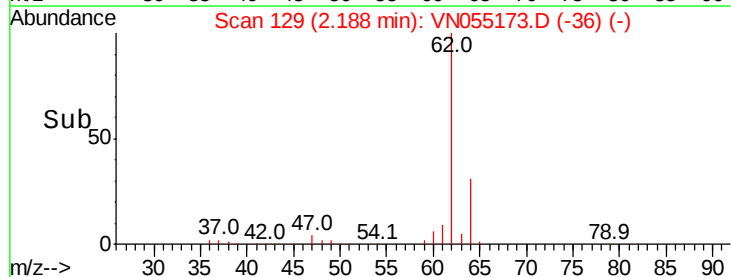
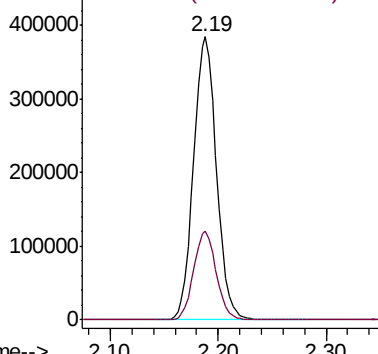
62 100

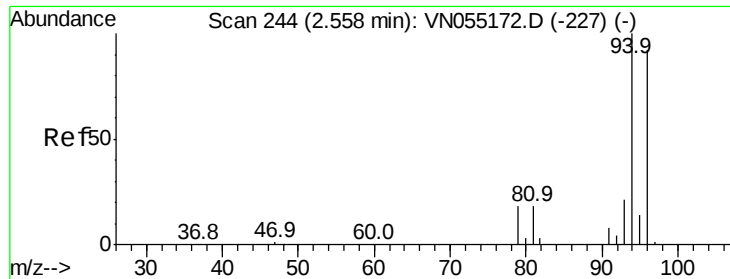
64 31.4 24.2 36.4



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC





#5

Bromomethane

Concen: 90.940 ug/l

RT: 2.55 min Scan# 241

Delta R.T. -0.01 min

Lab File: VN055173.D

Acq: 22 Apr 2019 11:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 94 Resp: 309276

Ion Ratio Lower Upper

94 100

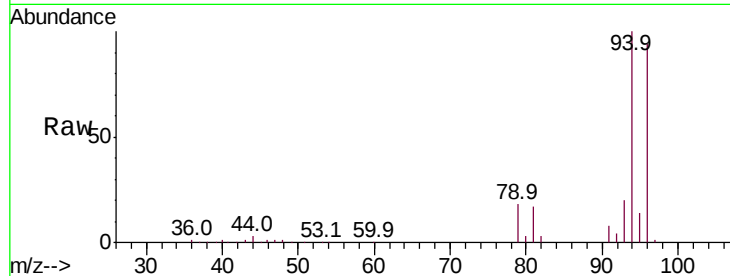
96 93.5 73.4 110.2

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.55

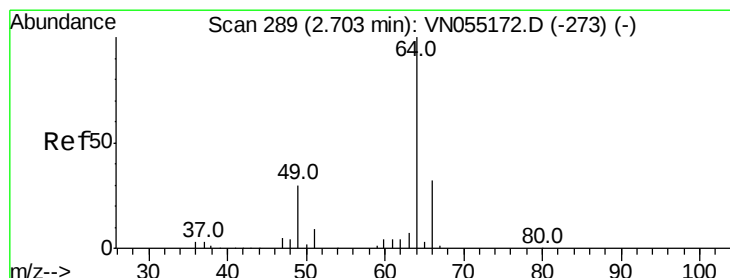
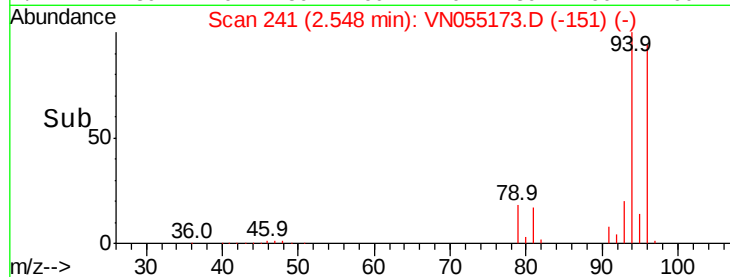
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100000

50000

0

Time-->



#6

Chloroethane

Concen: 94.036 ug/l

RT: 2.70 min Scan# 287

Delta R.T. -0.01 min

Lab File: VN055173.D

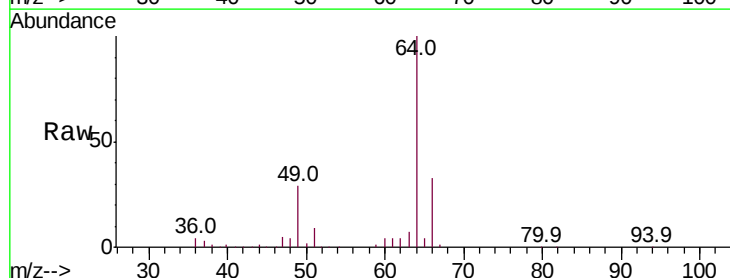
Acq: 22 Apr 2019 11:03

Tgt Ion: 64 Resp: 298184

Ion Ratio Lower Upper

64 100

66 33.2 25.9 38.9



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO

2.70

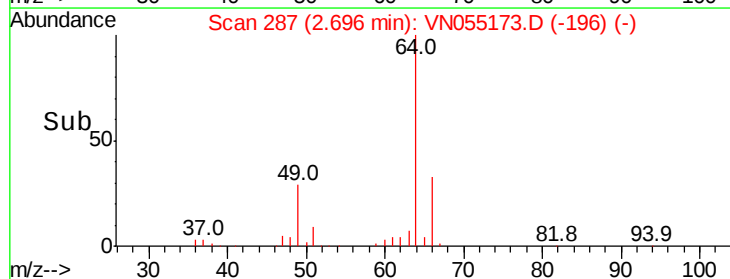
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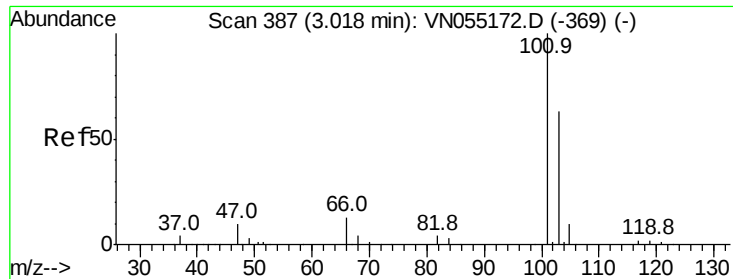
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Time-->





#7

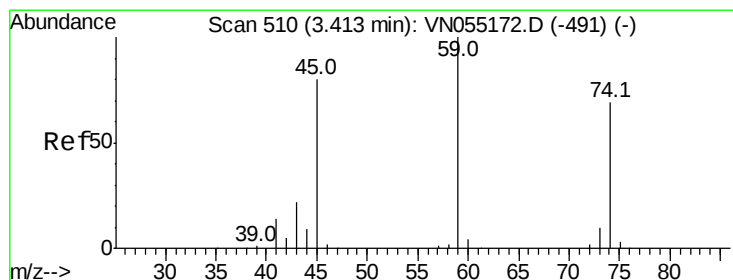
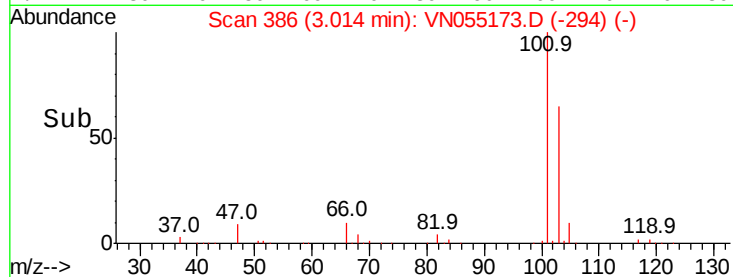
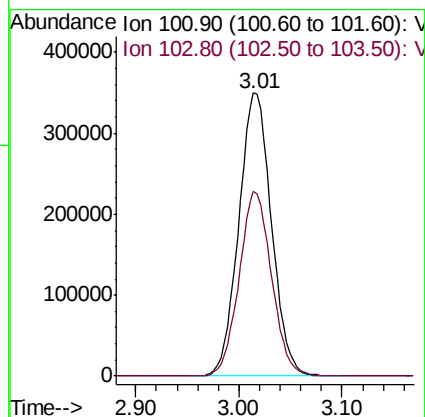
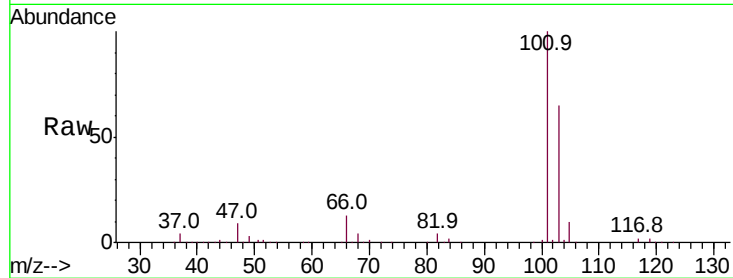
Trichlorofluoromethane
 Concen: 96.660 ug/l
 RT: 3.01 min Scan# 386
 Delta R.T. -0.00 min
 Lab File: VN055173.D
 Acq: 22 Apr 2019 11:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.1	50.1	75.1

Manual Integrations
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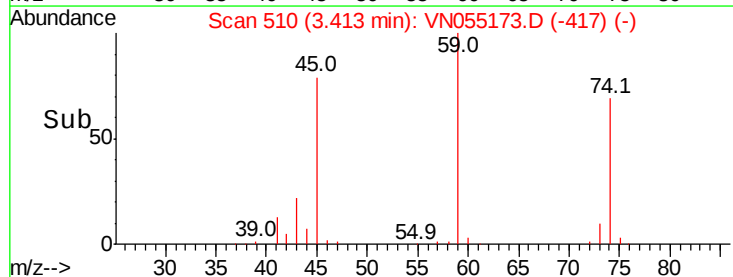
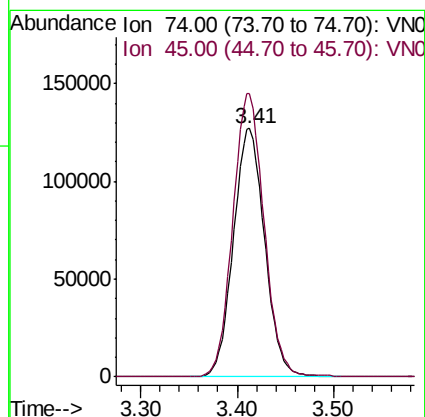
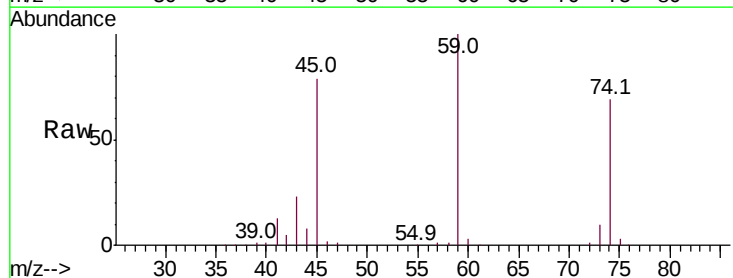
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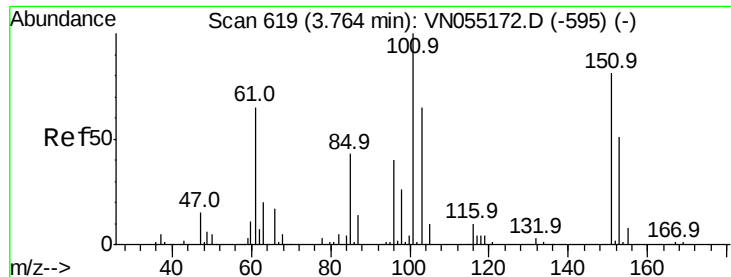


#8

Diethyl Ether
 Concen: 100.312 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. -0.00 min
 Lab File: VN055173.D
 Acq: 22 Apr 2019 11:03

Tgt Ion	Ratio	Lower	Upper
74	100		
45	113.0	56.9	170.6





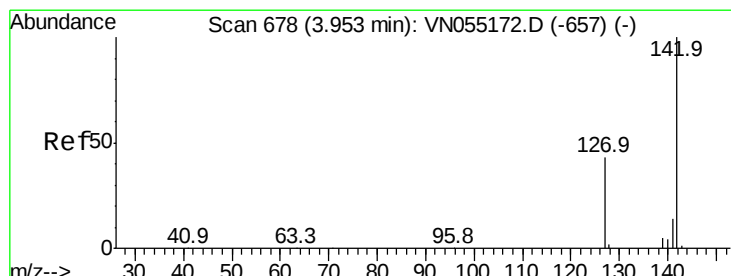
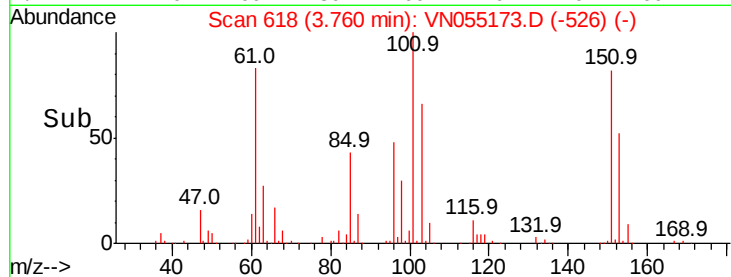
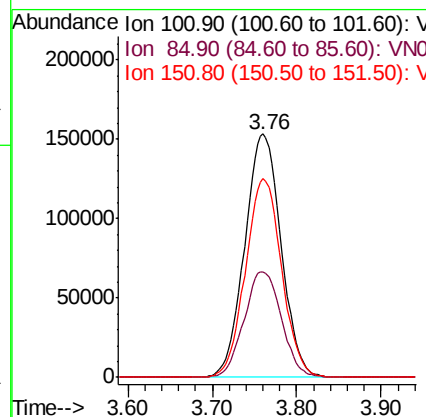
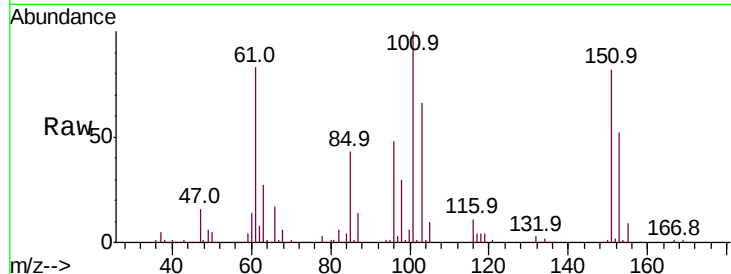
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 92.200 ug/l
 RT: 3.76 min Scan# 618
 Delta R.T. -0.00 min
 Lab File: VN055173.D
 Acq: 22 Apr 2019 11:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
101	100	459138		
85	44.5	34.9	52.3	
151	81.3	63.8	95.8	

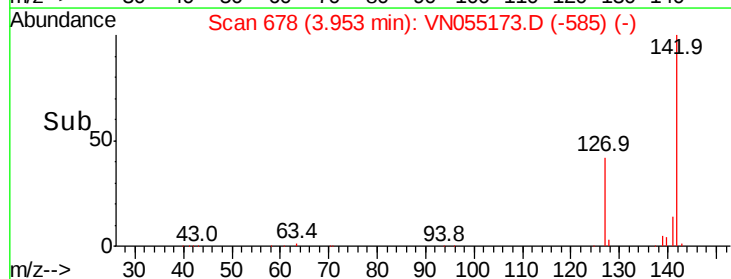
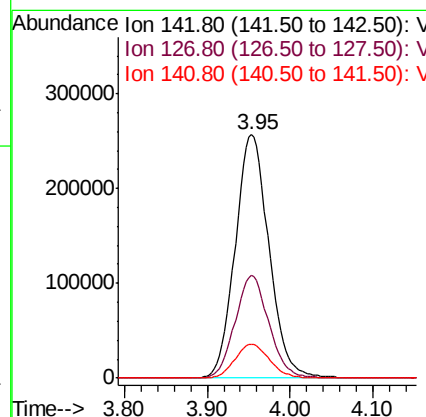
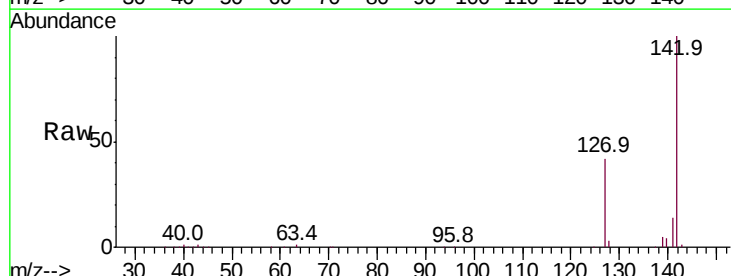
Manual Integrations
 APPROVED

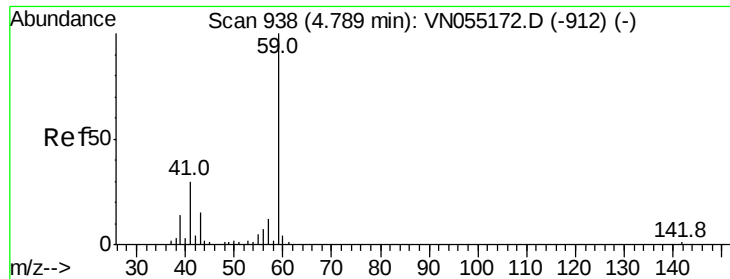
MMDadoda
 4/23/2019 1:46:48 PM



#10
 Methyl Iodide
 Concen: 109.019 ug/l
 RT: 3.95 min Scan# 678
 Delta R.T. -0.00 min
 Lab File: VN055173.D
 Acq: 22 Apr 2019 11:03

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	729381		
127	42.3	34.1	51.1	
141	14.4	11.4	17.2	





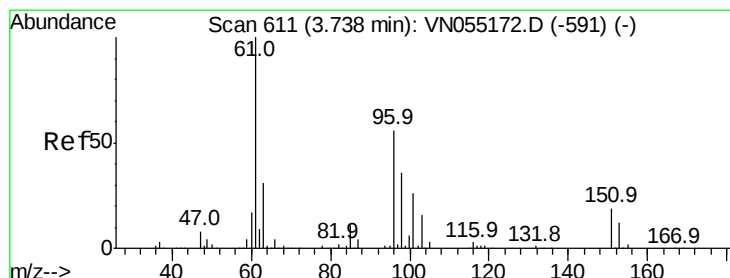
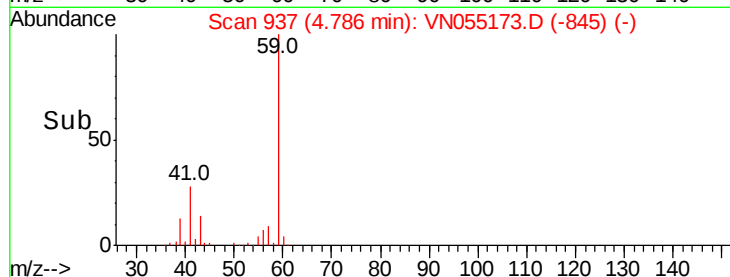
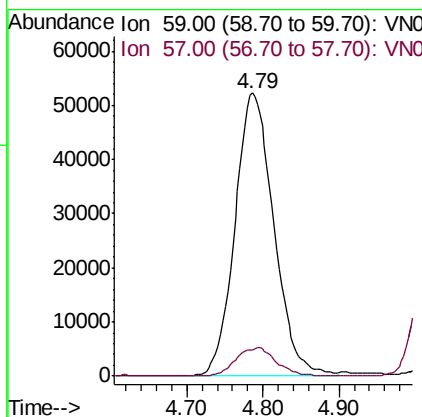
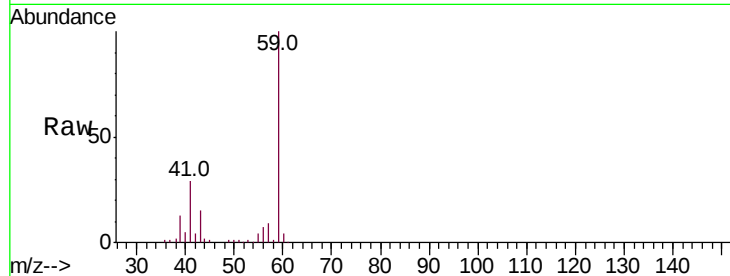
#11
Tert butyl alcohol
Concen: 515.543 ug/l
RT: 4.79 min Scan# 937
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.8	13.2

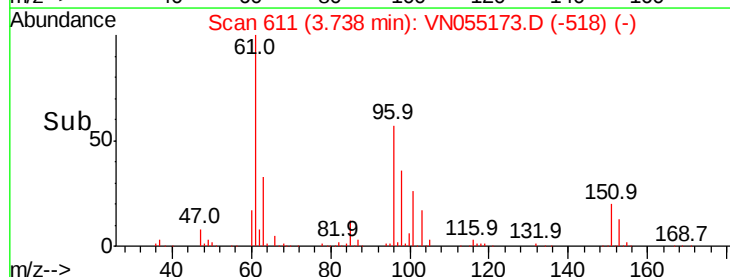
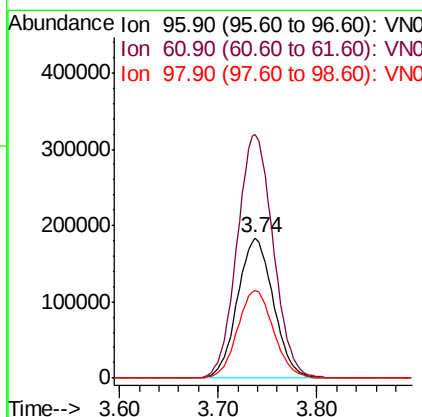
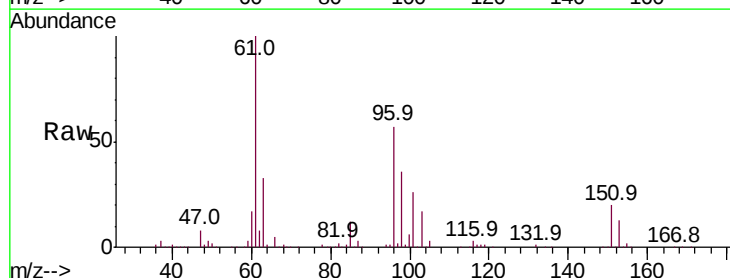
Manual Integrations
APPROVED

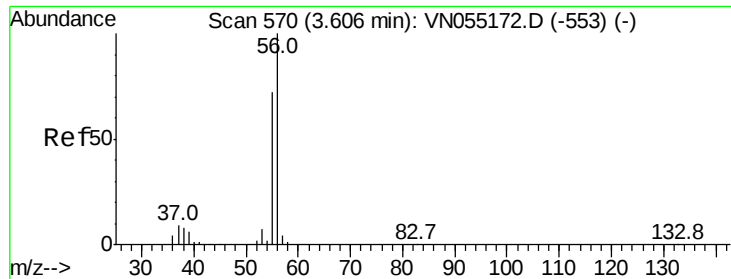
MMDadoda
4/23/2019 1:46:48 PM



#12
1,1-Dichloroethene
Concen: 96.861 ug/l
RT: 3.74 min Scan# 611
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Tgt Ion	Ratio	Lower	Upper
96	100		
61	174.0	142.1	213.1
98	62.6	51.2	76.8





#13

Acrolein

Concen: 579.104 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN055173.D

Acq: 22 Apr 2019 11:03

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 56 Resp: 284020

Ion Ratio Lower Upper

56 100

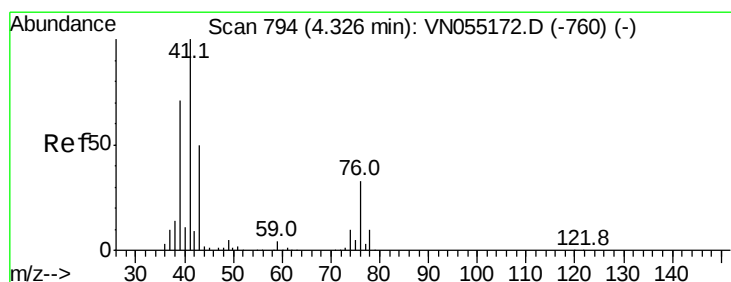
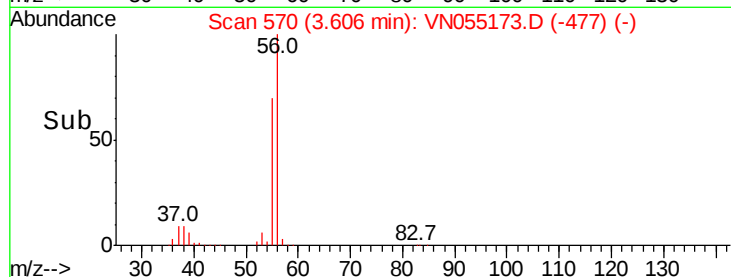
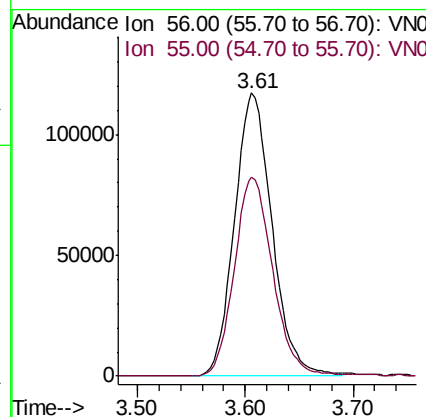
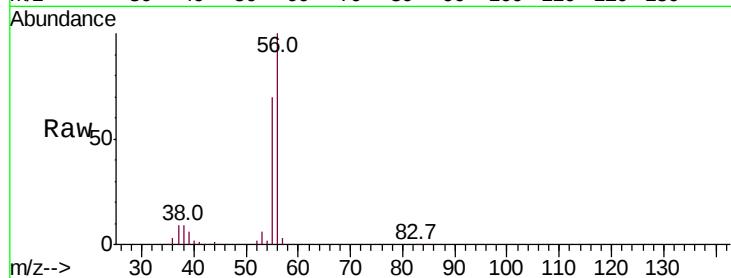
55 71.7 57.4 86.0

Manual Integrations

APPROVED

MMDadoda

4/23/2019 1:46:48 PM



#14

Allyl chloride

Concen: 99.280 ug/l

RT: 4.32 min Scan# 793

Delta R.T. -0.00 min

Lab File: VN055173.D

Acq: 22 Apr 2019 11:03

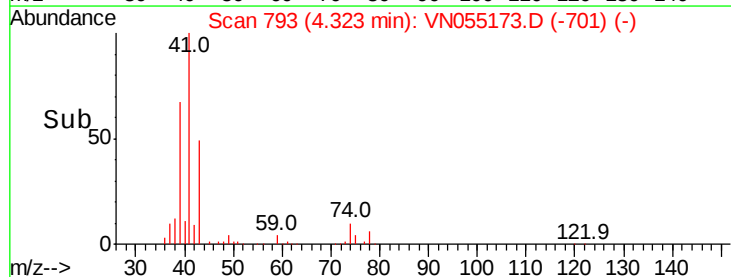
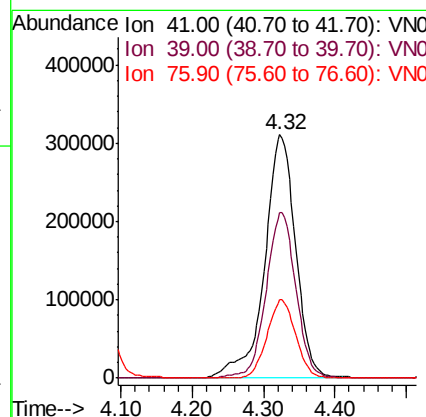
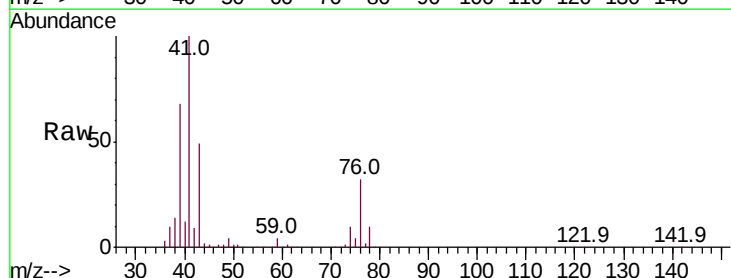
Tgt Ion: 41 Resp: 936664

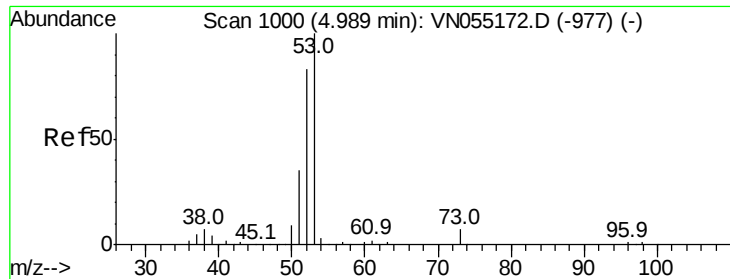
Ion Ratio Lower Upper

41 100

39 65.5 52.9 79.3

76 29.5 23.6 35.4





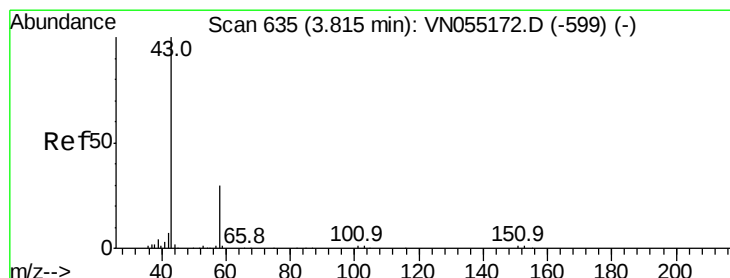
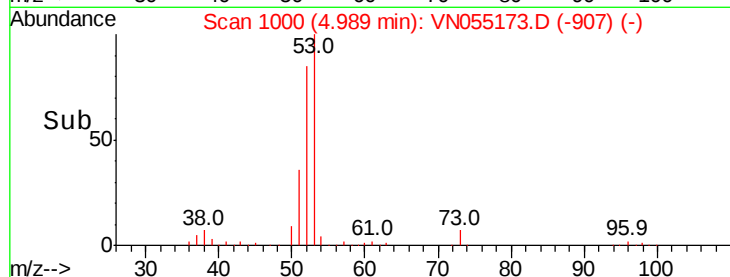
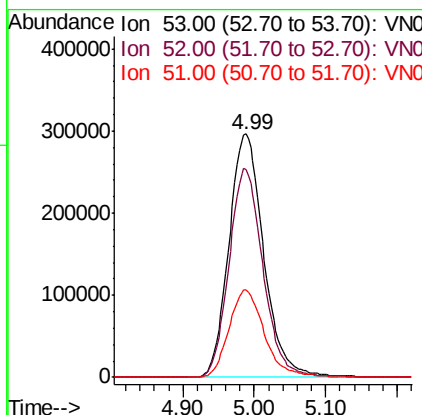
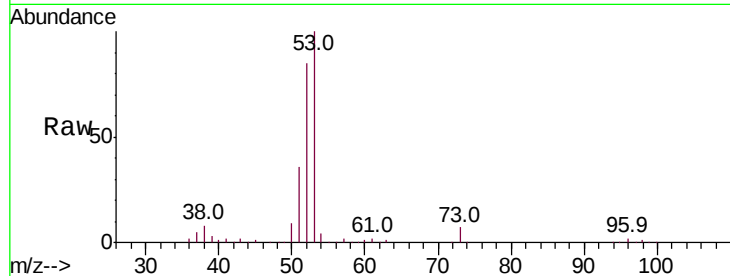
#15
 Acrylonitrile
 Concen: 500.430 ug/l
 RT: 4.99 min Scan# 1000
 Delta R.T. -0.00 min
 Lab File: VN055173.D
 Acq: 22 Apr 2019 11:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
53	100		
52	83.8	65.8	98.8
51	36.7	28.9	43.3

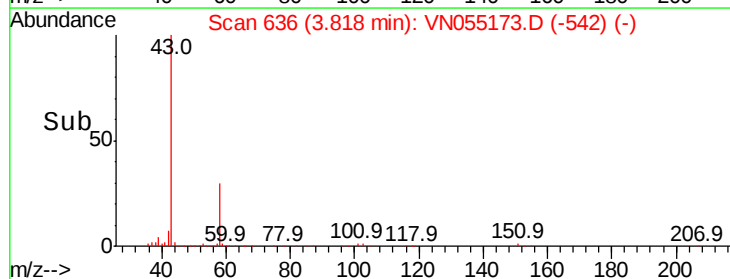
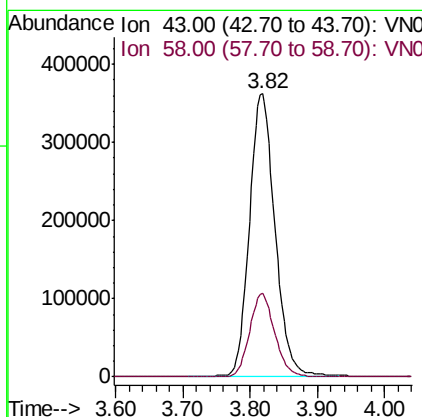
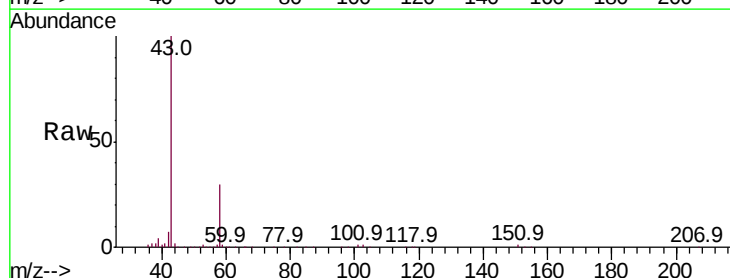
Manual Integrations
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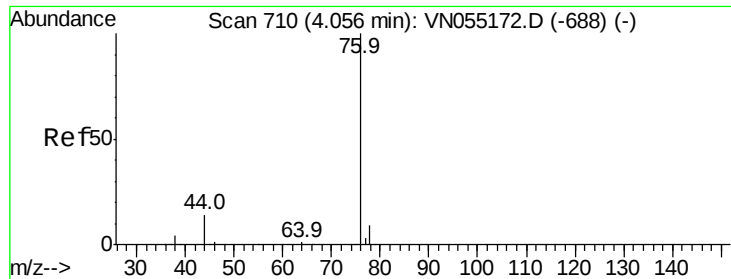
MMDadoda
 4/23/2019 1:46:48 PM



#16
 Acetone
 Concen: 459.878 ug/l
 RT: 3.82 min Scan# 636
 Delta R.T. 0.00 min
 Lab File: VN055173.D
 Acq: 22 Apr 2019 11:03

Tgt Ion	Ratio	Lower	Upper
43	100		
58	29.6	23.8	35.8





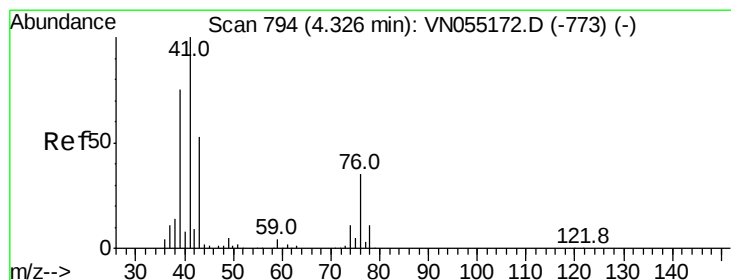
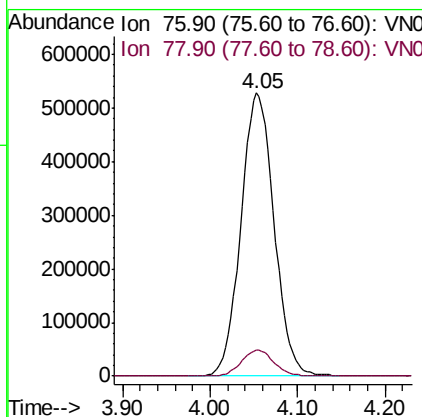
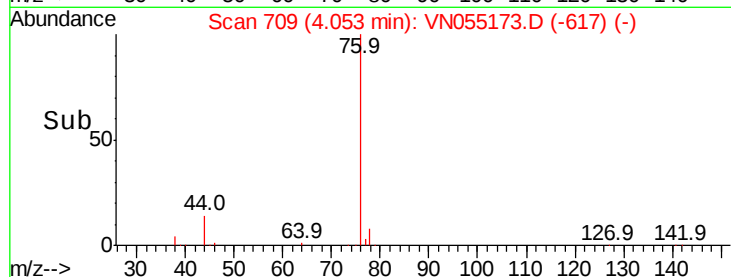
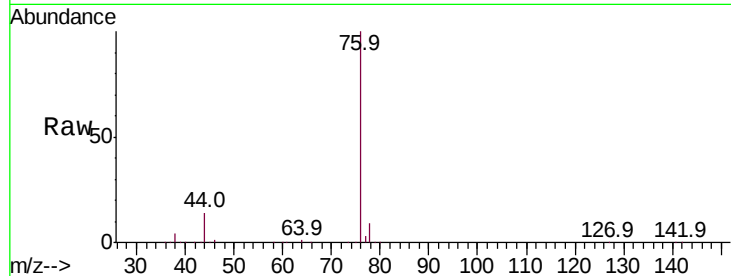
#17
Carbon Disulfide
Concen: 103.977 ug/l
RT: 4.05 min Scan# 709
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tot Ion: 76 Resp: 1387277
Ion Ratio Lower Upper
76 100
78 9.1 7.3 10.9

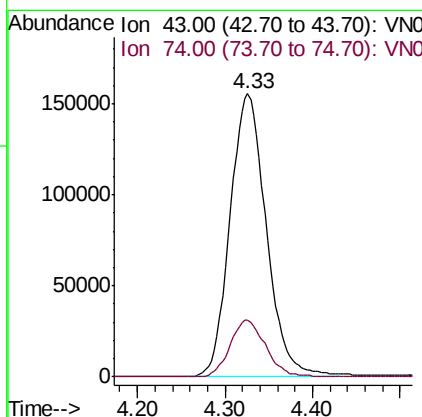
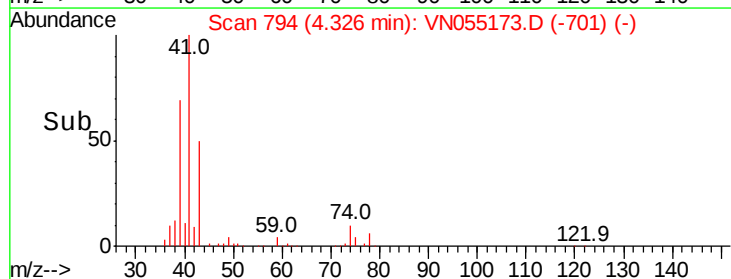
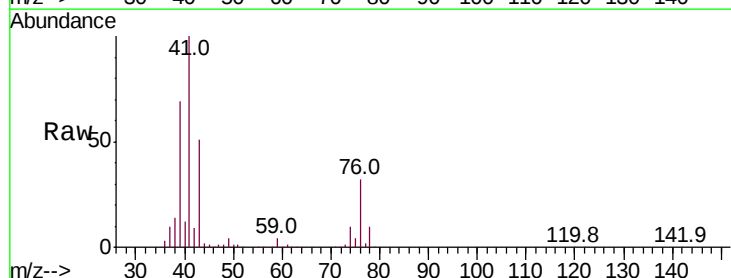
Manual Integrations
APPROVED

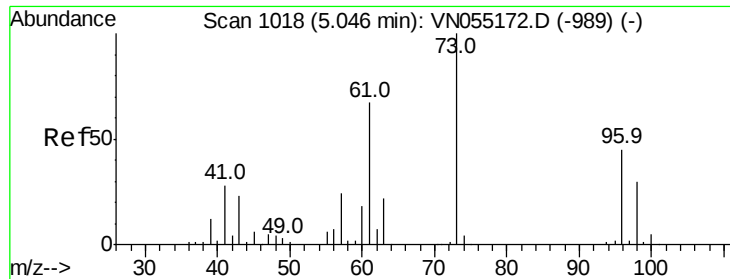
MMDadoda
4/23/2019 1:46:48 PM



#18
Methyl Acetate
Concen: 77.377 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Tgt Ion: 43 Resp: 443250
Ion Ratio Lower Upper
43 100
74 20.0 16.7 25.1





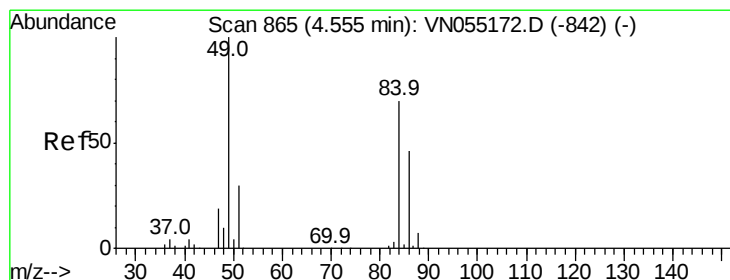
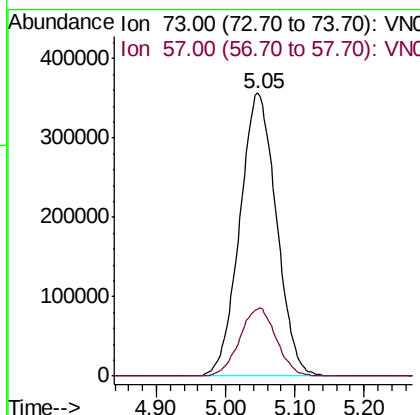
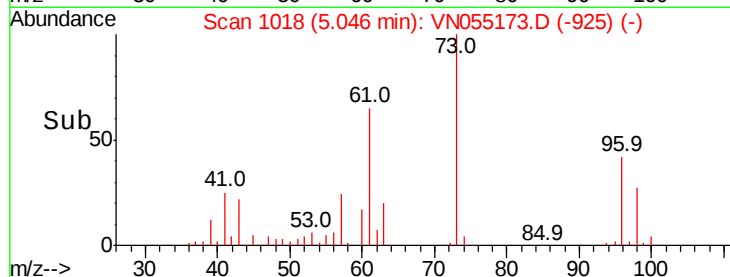
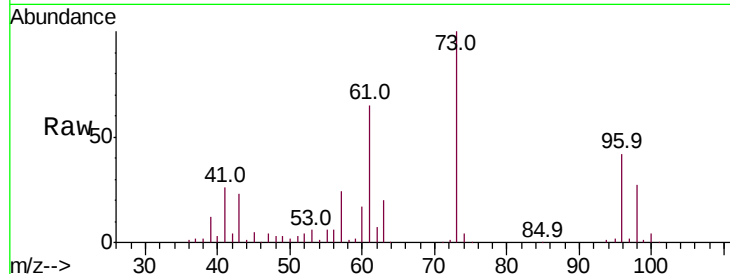
#19
Methvl tert-butvl Ether
Concen: 99.216 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 73 Resp: 1309147
Ion Ratio Lower Upper
73 100
57 23.8 19.5 29.3

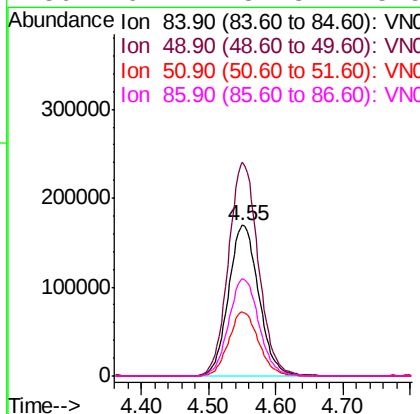
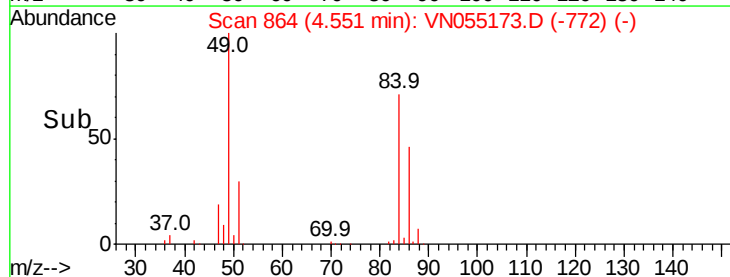
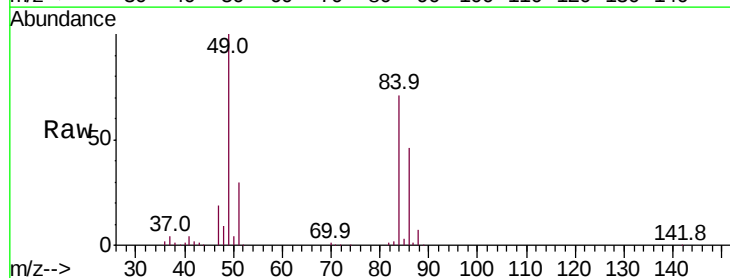
Manual Integrations
APPROVED

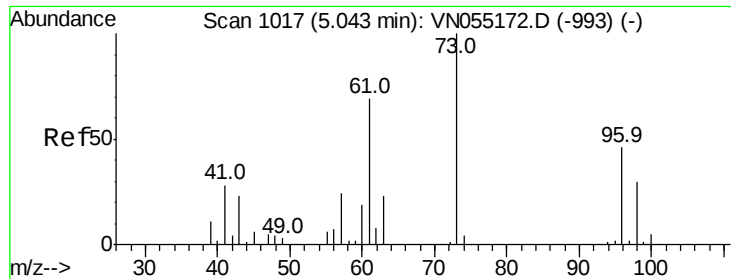
MMDadoda
4/23/2019 1:46:48 PM



#20
Methylene Chloride
Concen: 88.789 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Tgt Ion: 84 Resp: 529801
Ion Ratio Lower Upper
84 100
49 141.8 113.8 170.6
51 42.6 34.0 51.0
86 64.7 52.3 78.5





#21

trans-1,2-Dichloroethene

Concen: 97.447 ug/l

RT: 5.04 min Scan# 1017

Delta R.T. -0.00 min

Lab File: VN055173.D

Acq: 22 Apr 2019 11:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 96 Resp: 487671

Ion Ratio Lower Upper

96 100

61 154.5 119.3 178.9

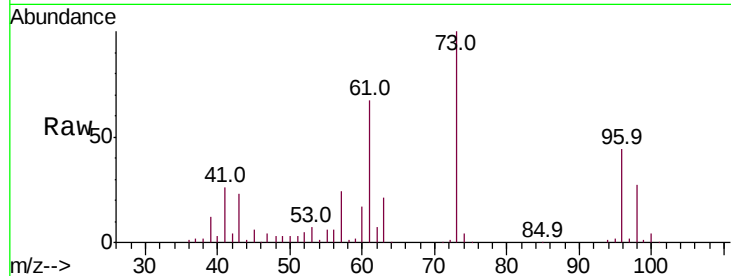
98 62.3 53.0 79.4

Manual Integrations

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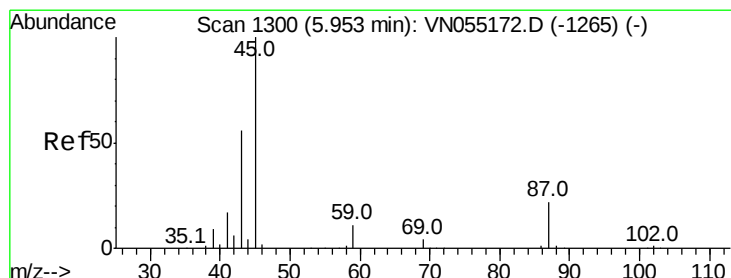
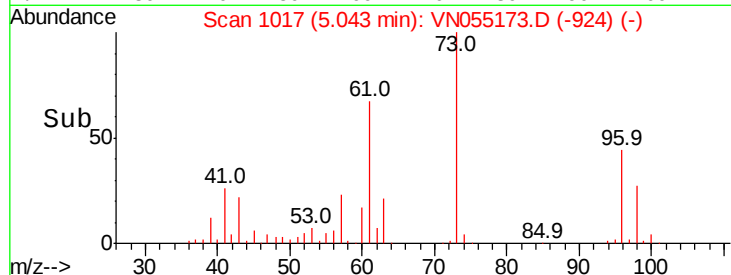
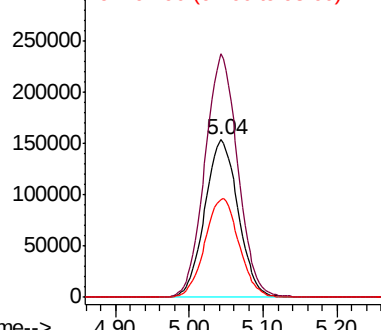


Abundance

Ion 95.90 (95.60 to 96.60): VNC

Ion 60.90 (60.60 to 61.60): VNC

Ion 97.90 (97.60 to 98.60): VNC



#22

Diisopropyl ether

Concen: 98.128 ug/l

RT: 5.95 min Scan# 1300

Delta R.T. -0.00 min

Lab File: VN055173.D

Acq: 22 Apr 2019 11:03

Tgt Ion: 45 Resp: 1845407

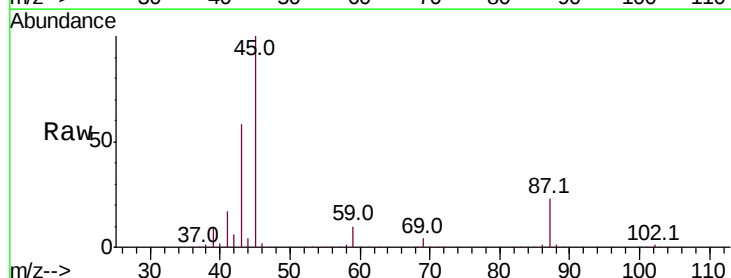
Ion Ratio Lower Upper

45 100

43 57.7 47.4 71.0

87 23.0 18.4 27.6

59 10.3 8.6 12.8



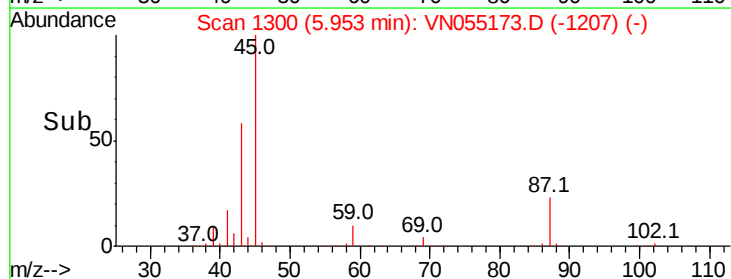
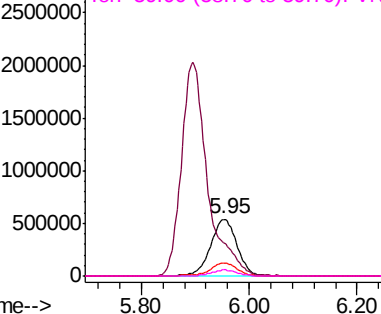
Abundance

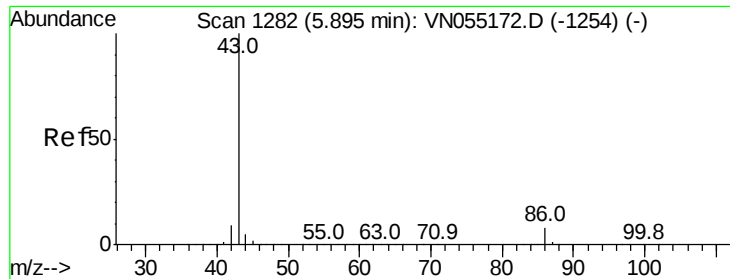
Ion 45.00 (44.70 to 45.70): VNC

Ion 43.00 (42.70 to 43.70): VNC

Ion 87.00 (86.70 to 87.70): VNC

Ion 59.00 (58.70 to 59.70): VNC





#23

Vinyl Acetate

Concen: 540.304 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VN055173.D

Acq: 22 Apr 2019 11:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 6828129

Ion Ratio Lower Upper

43 100

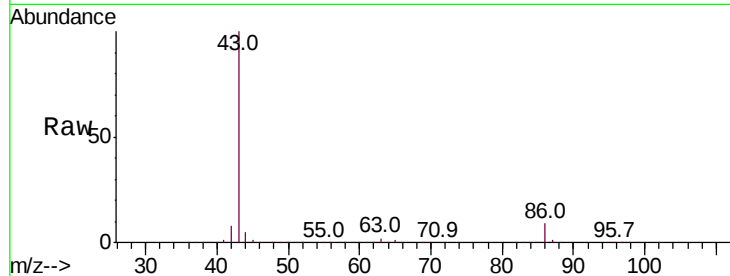
86 8.6 6.8 10.2

Manual Integrations

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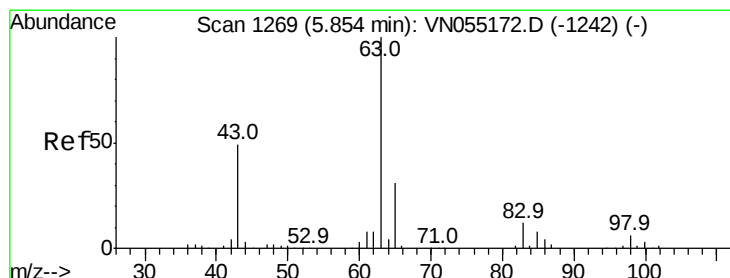
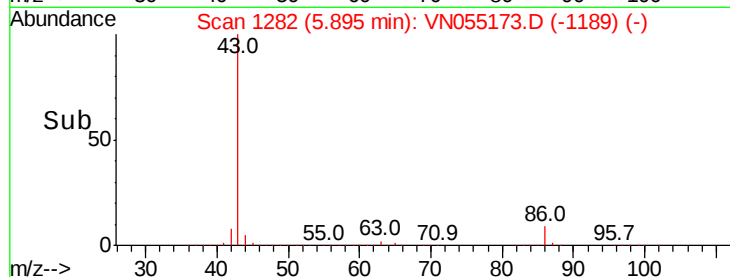
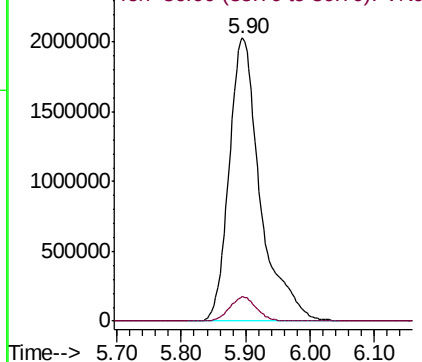
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 94.840 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VN055173.D

Acq: 22 Apr 2019 11:03

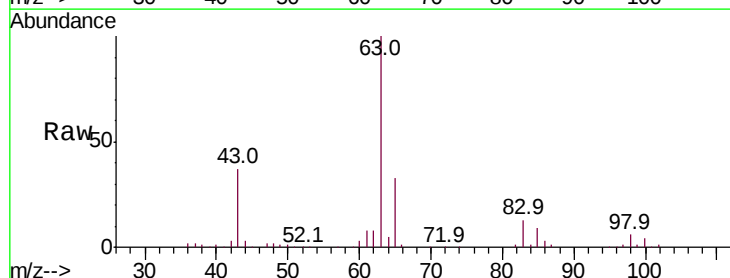
Tgt Ion: 63 Resp: 959355

Ion Ratio Lower Upper

63 100

98 6.1 3.1 9.3

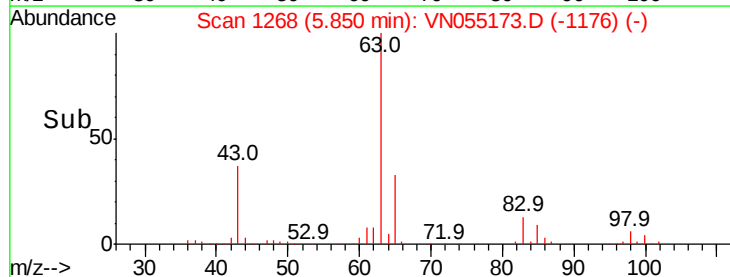
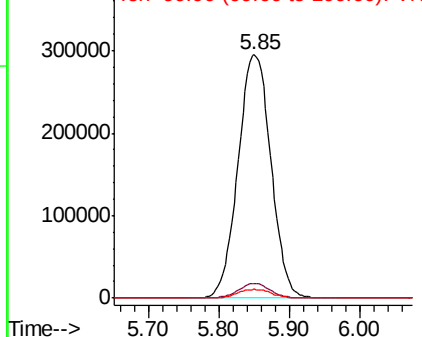
100 3.6 1.8 5.3

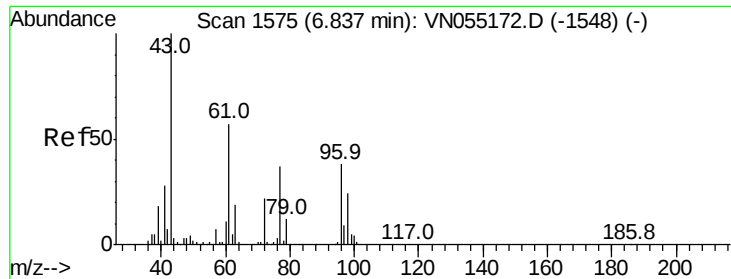


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





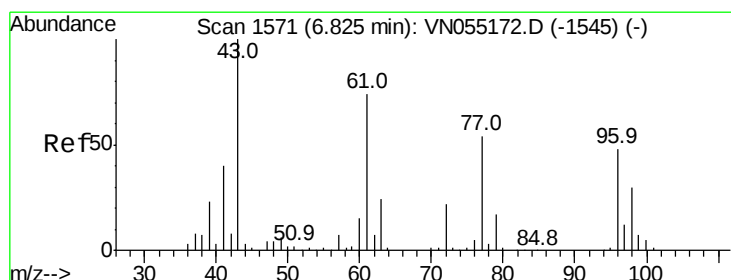
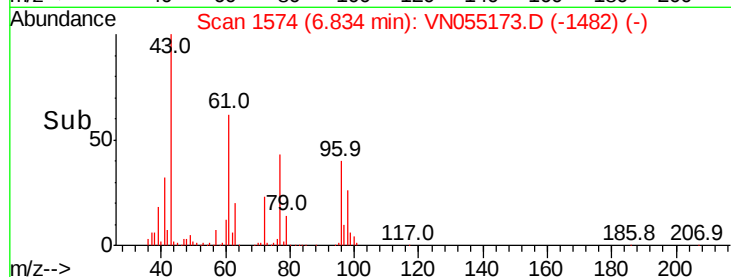
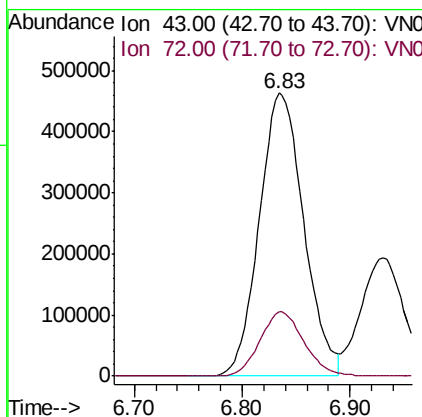
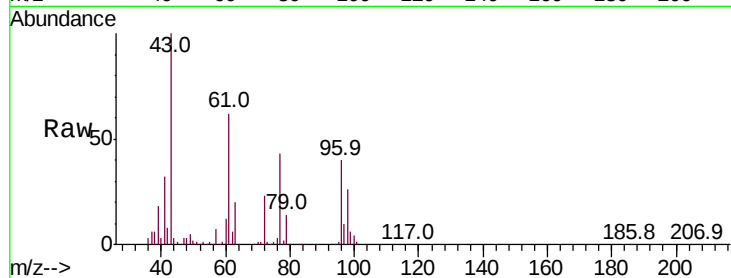
#25
2-Butanone
Concen: 492.212 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 43 Resp: 1318961
Ion Ratio Lower Upper
43 100
72 22.9 17.8 26.8

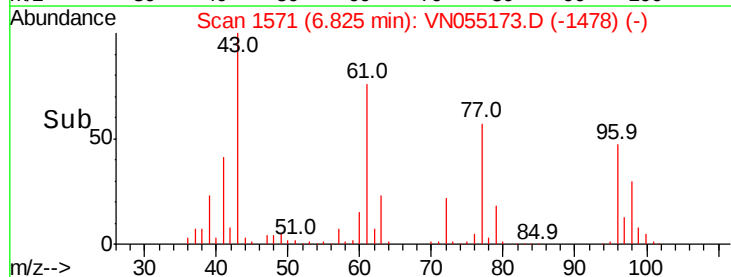
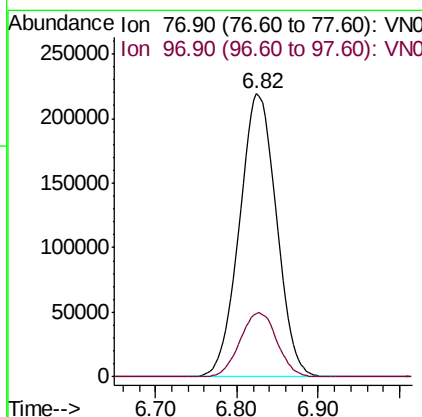
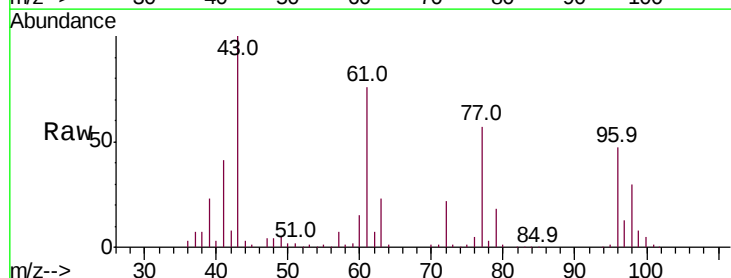
Manual Integrations
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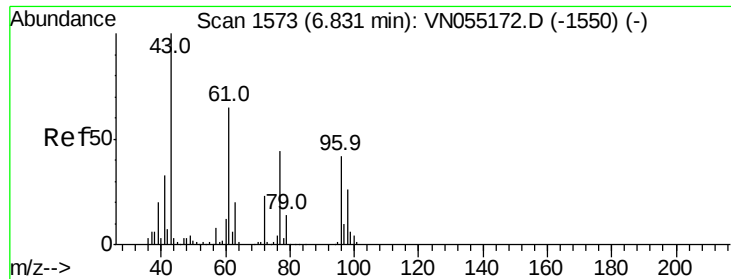
MMDadoda
4/23/2019 1:46:48 PM



#26
2,2-Dichloropropane
Concen: 100.534 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Tgt Ion: 77 Resp: 688179
Ion Ratio Lower Upper
77 100
97 22.6 11.3 33.8





#27

cis-1,2-Dichloroethene

Concen: 95.851 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VN055173.D

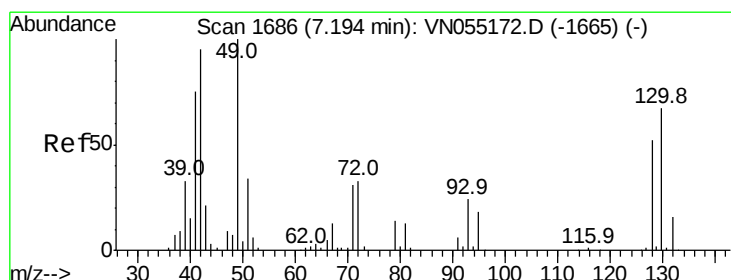
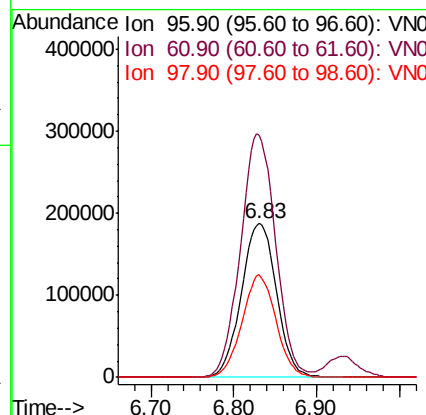
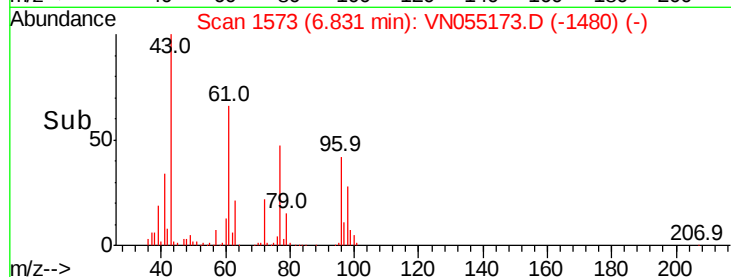
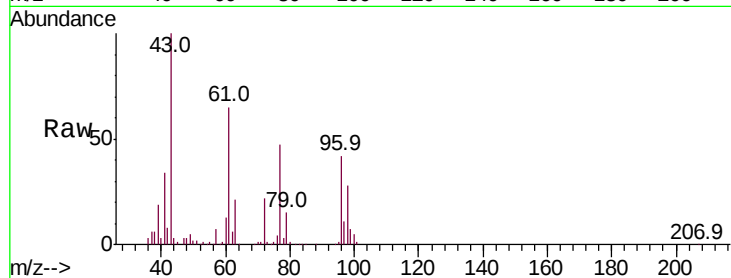
Acq: 22 Apr 2019 11:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
96	100	552955		
61	157.6		0.0	310.8
98	64.5		0.0	127.4

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4/23/2019 1:46:48 PM



#28

Bromochloromethane

Concen: 94.266 ug/l

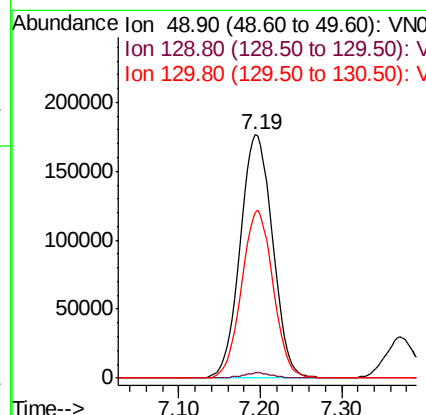
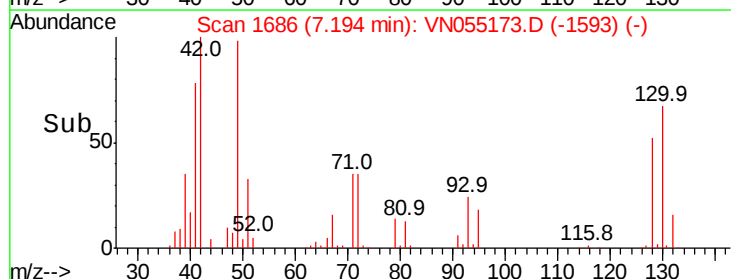
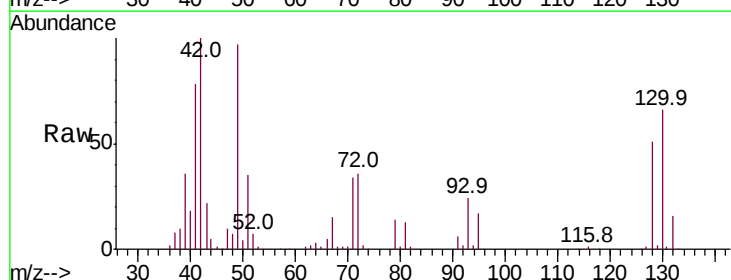
RT: 7.19 min Scan# 1686

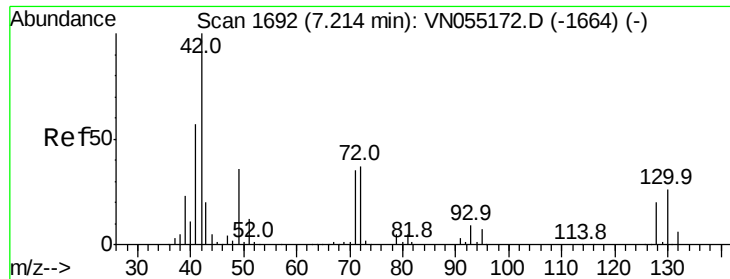
Delta R.T. -0.00 min

Lab File: VN055173.D

Acq: 22 Apr 2019 11:03

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	486069		
129	2.0		0.0	3.8
130	66.7		53.4	80.2





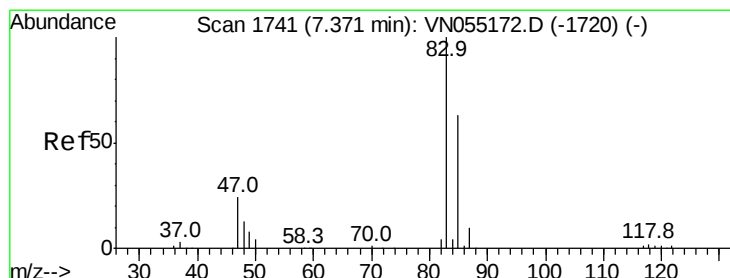
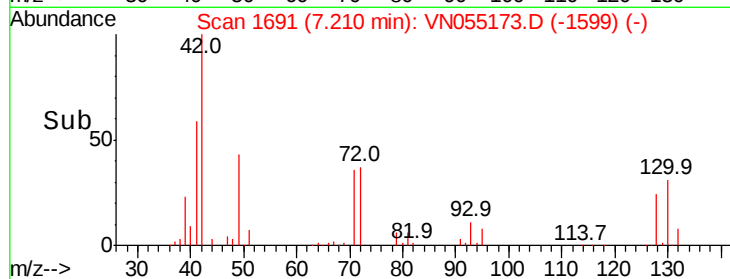
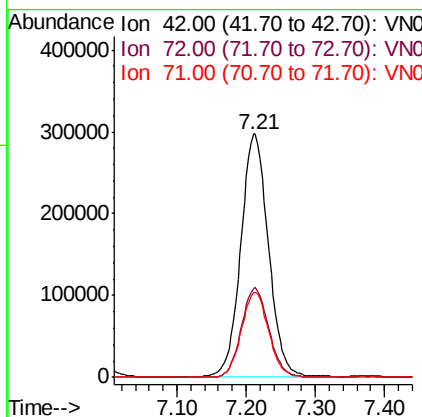
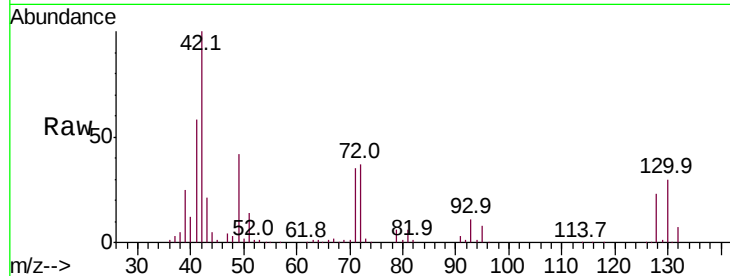
#29
Tetrahydrofuran
Concen: 490.715 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
42	100			
72	36.5	29.4	44.2	
71	34.5	27.8	41.8	

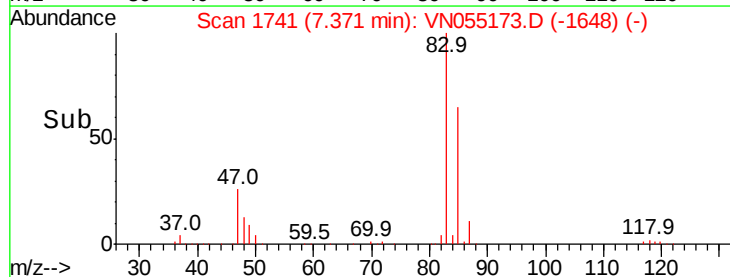
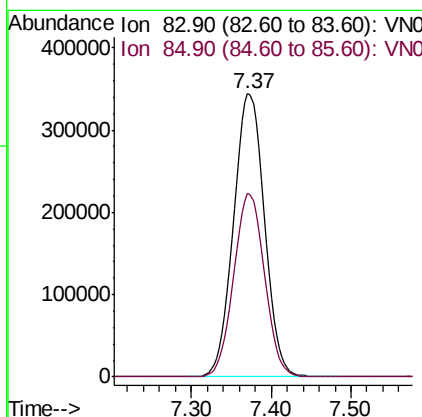
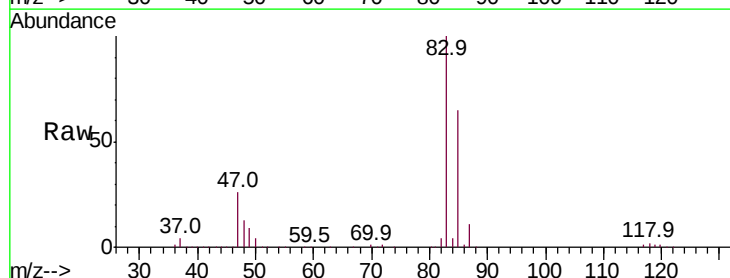
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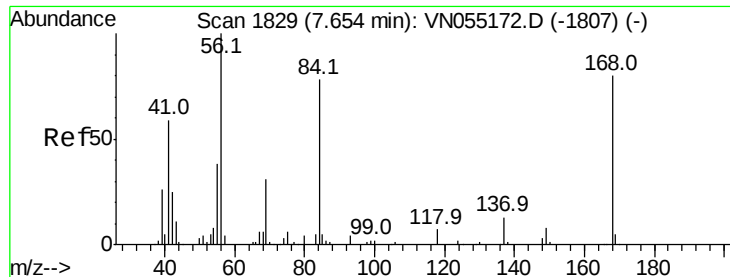
MMDadoda
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#30
Chloroform
Concen: 93.500 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Tgt Ion	Ratio	Resp	Lower	Upper
83	100			
85	64.7	50.6	76.0	





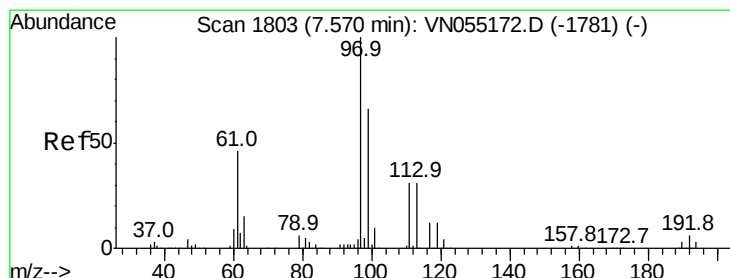
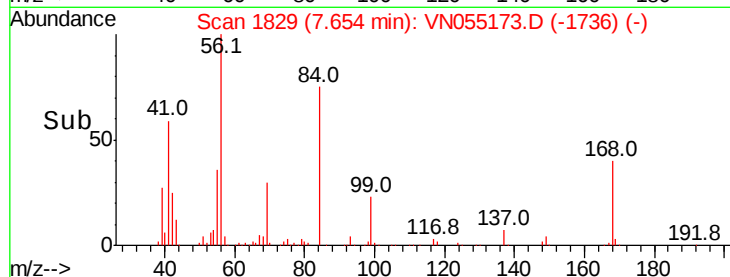
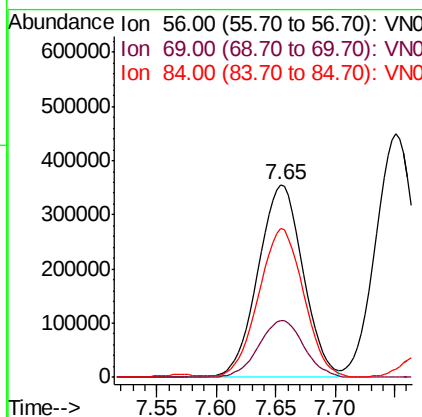
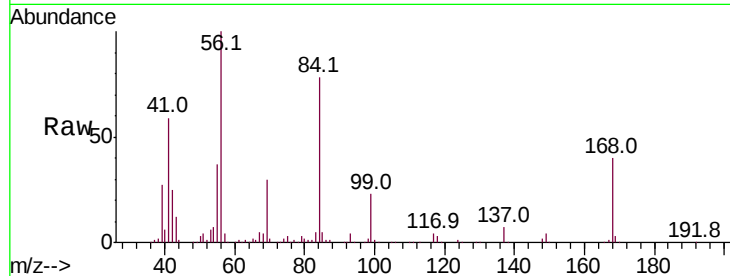
#31
Cyclohexane
Concen: 80.210 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
56	100		
69	29.6	24.6	37.0
84	76.3	61.4	92.2

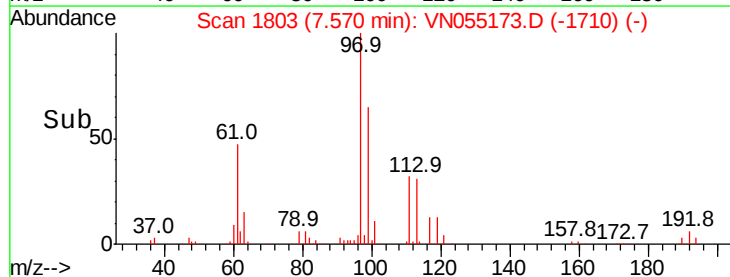
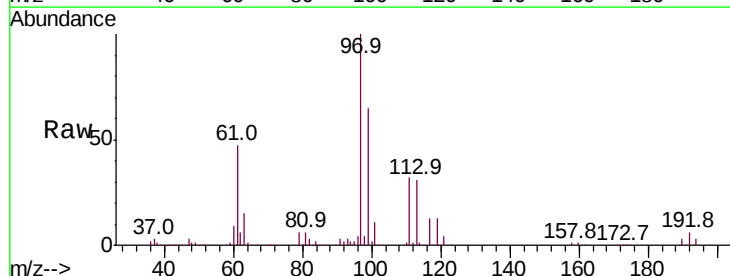
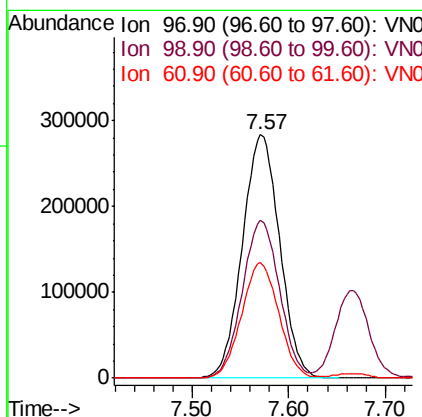
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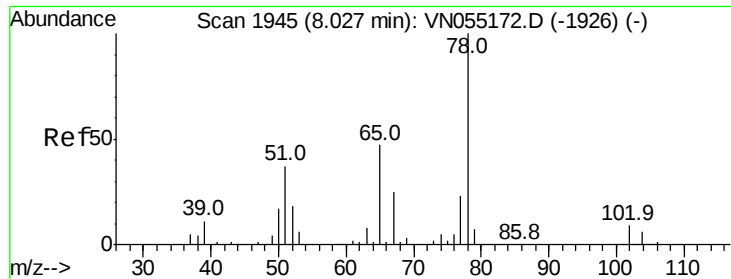
MMDadoda
4/23/2019 1:46:48 PM



#32
1,1,1-Trichloroethane
Concen: 98.384 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.1	76.7
61	47.3	38.3	57.5





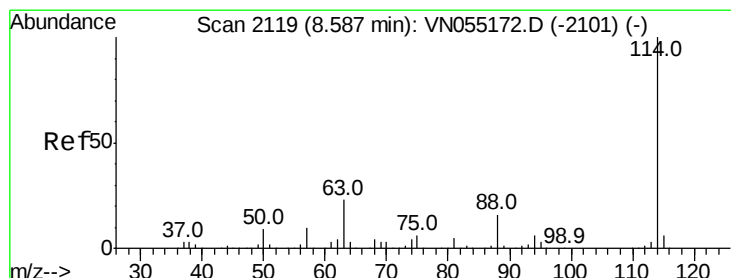
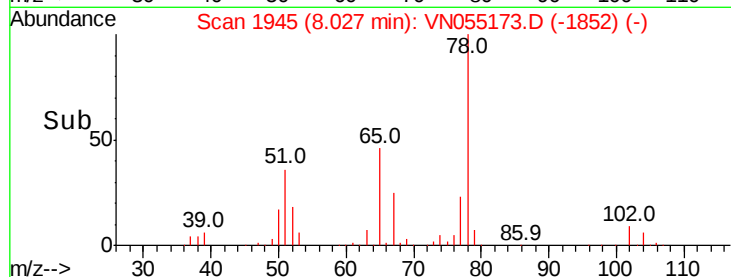
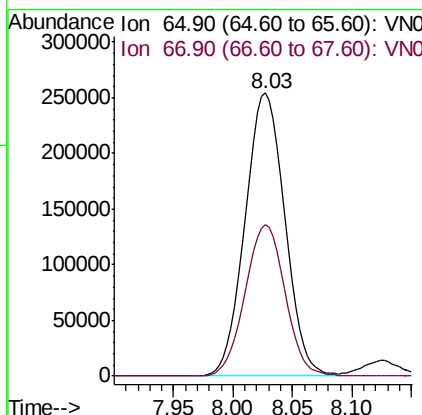
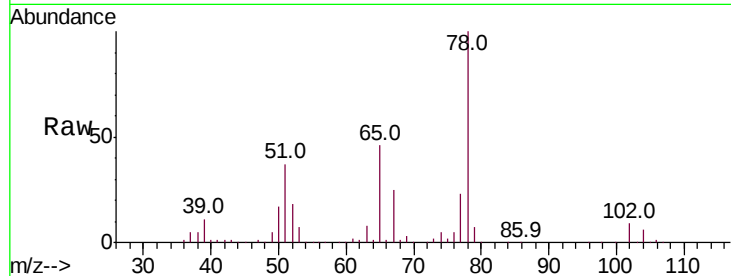
#33
 1,2-Dichloroethane-d4
 Concen: 86.831 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN055173.D
 Acq: 22 Apr 2019 11:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
65	100	591204		
67	53.7	0.0	108.6	

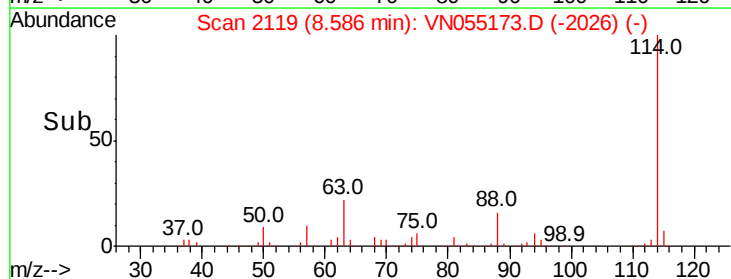
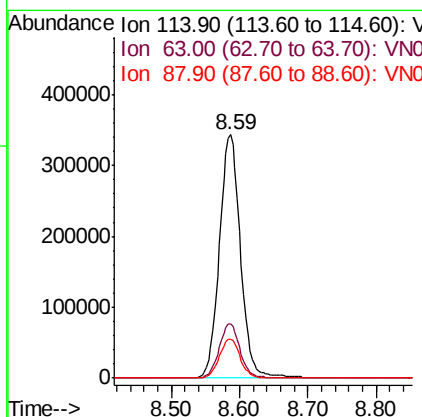
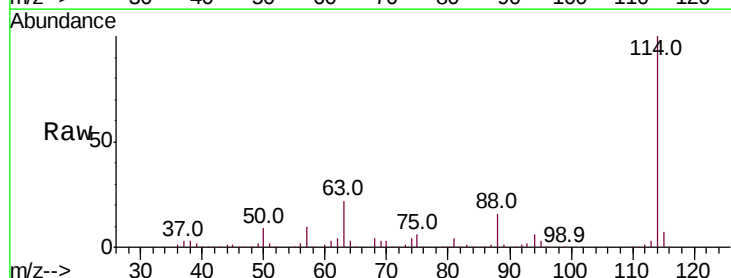
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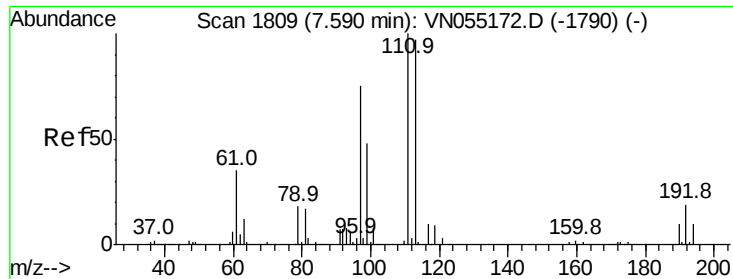
MMDadoda
 4/23/2019 1:46:48 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN055173.D
 Acq: 22 Apr 2019 11:03

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	736272		
63	22.4	0.0	45.2	
88	16.0	0.0	32.8	





#35

Dibromofluoromethane

Concen: 89.774 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN055173.D

Acq: 22 Apr 2019 11:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:113 Resp: 474262

Ion Ratio Lower Upper

113 100

111 103.6 81.0 121.4

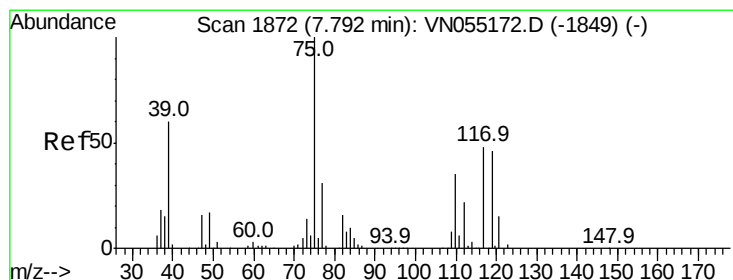
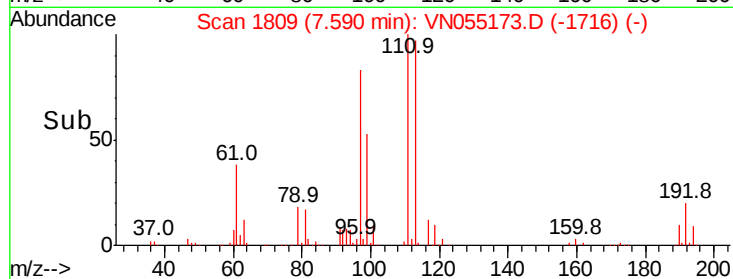
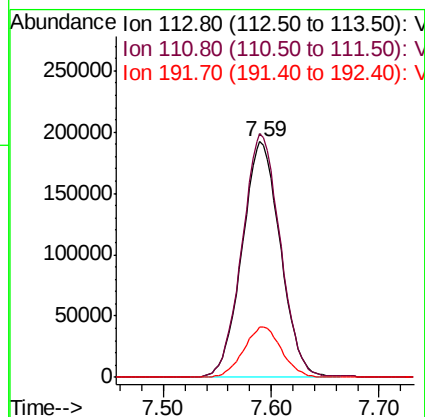
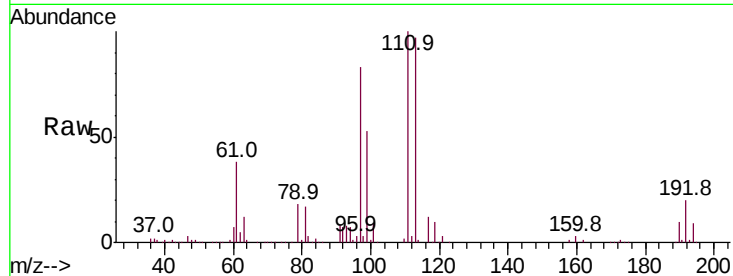
192 21.3 16.2 24.4

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#36

1,1-Dichloropropene

Concen: 104.329 ug/l

RT: 7.79 min Scan# 1872

Delta R.T. -0.00 min

Lab File: VN055173.D

Acq: 22 Apr 2019 11:03

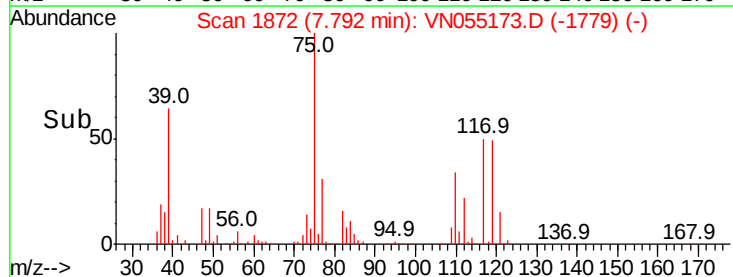
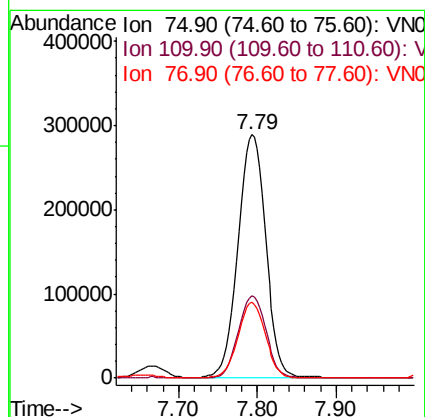
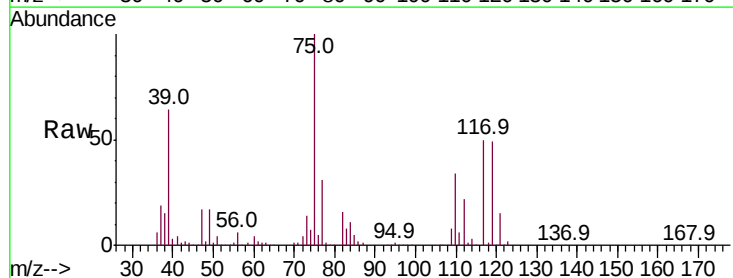
Tgt Ion: 75 Resp: 712960

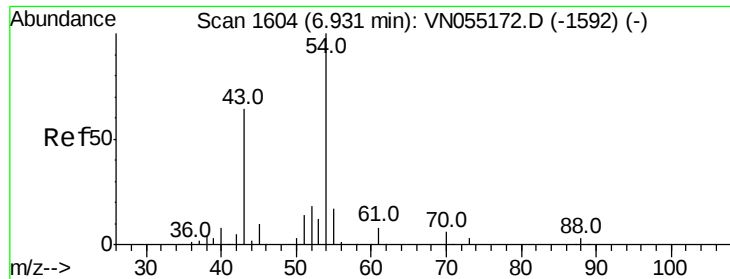
Ion Ratio Lower Upper

75 100

110 34.0 17.1 51.2

77 31.1 24.6 36.8





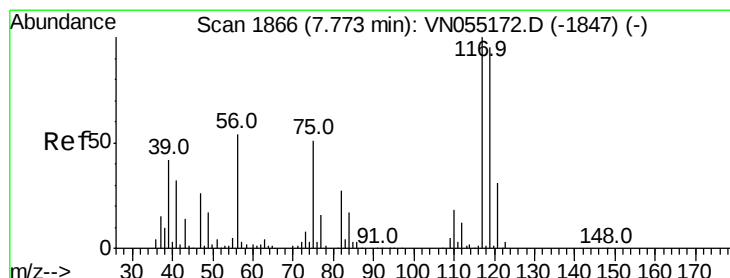
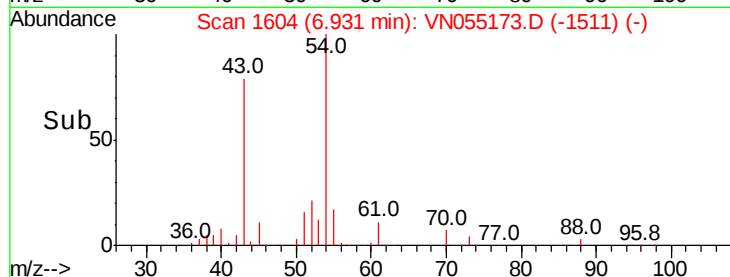
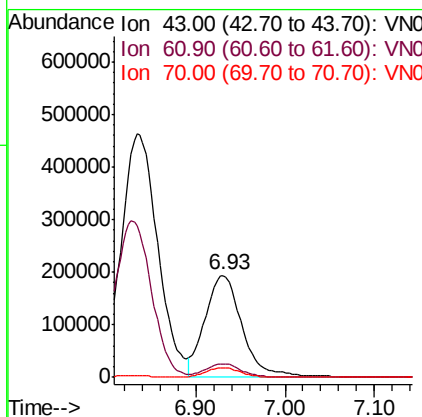
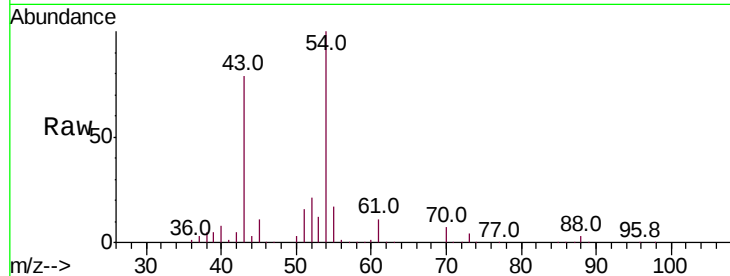
#37
Ethyl Acetate
Concen: 96.170 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.9	9.7	14.5
70	9.2	6.9	10.3

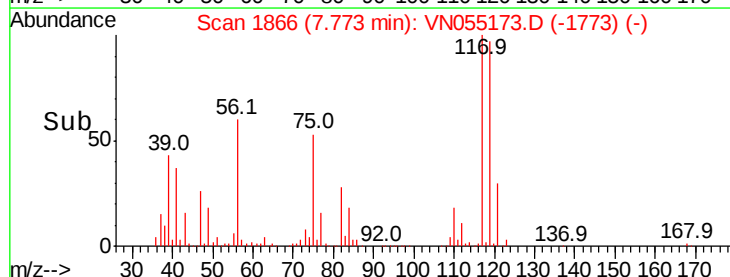
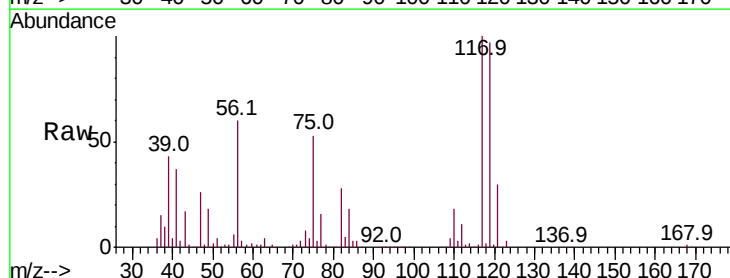
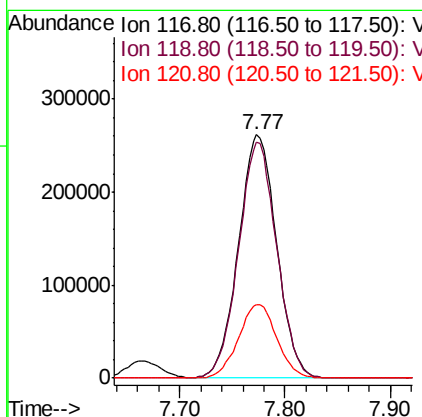
Manual Integrations
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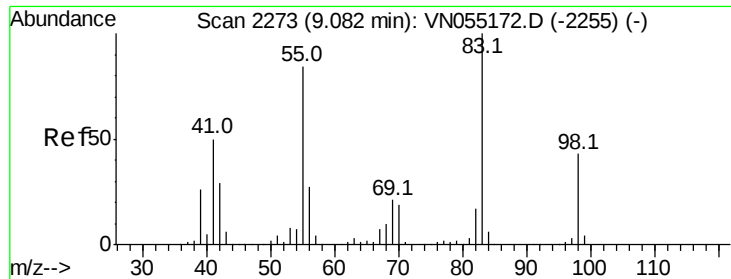
MMDadoda
4/23/2019 1:46:48 PM



#38
Carbon Tetrachloride
Concen: 96.068 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.8	76.0	114.0
121	30.4	24.6	36.8





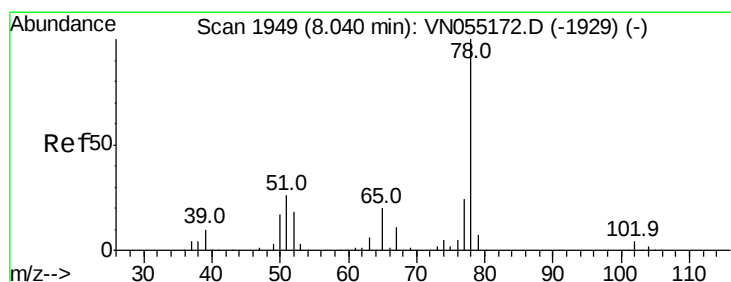
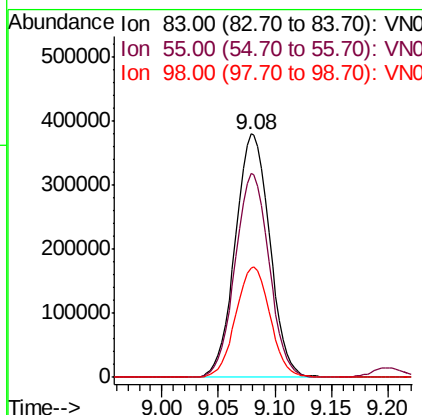
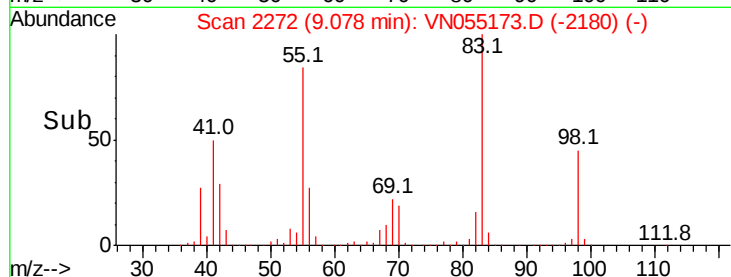
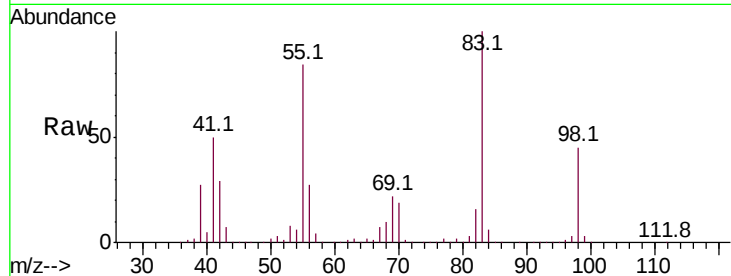
#39
Methvlcvclohexane
Concen: 99.073 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 83 Resp: 807700
Ion Ratio Lower Upper
83 100
55 83.8 67.4 101.0
98 45.0 34.7 52.1

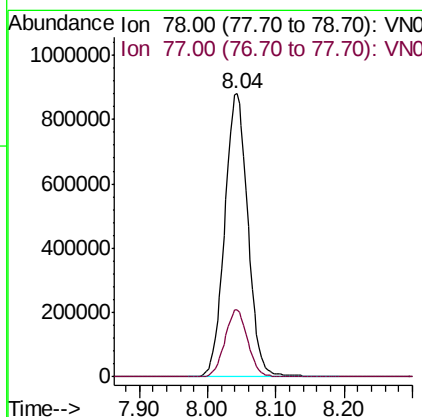
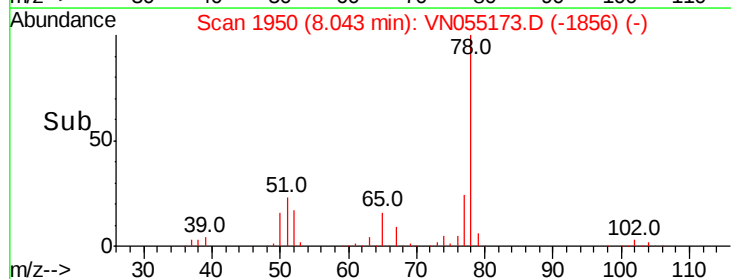
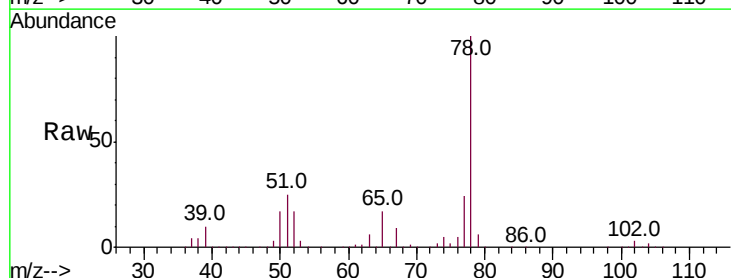
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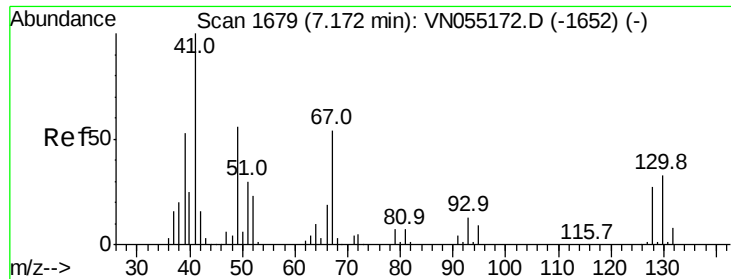
MMDadoda
4/23/2019 1:46:48 PM



#40
Benzene
Concen: 98.707 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Tgt Ion: 78 Resp: 2082255
Ion Ratio Lower Upper
78 100
77 23.8 19.5 29.3





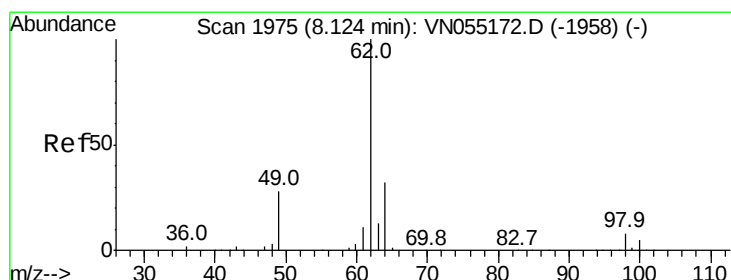
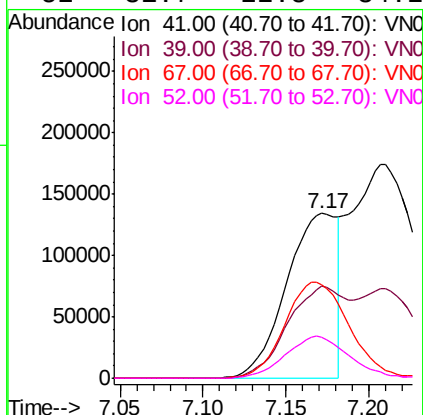
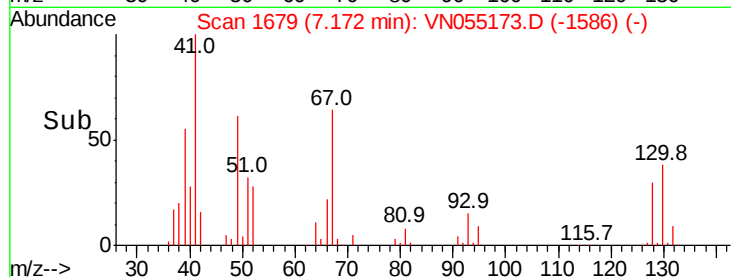
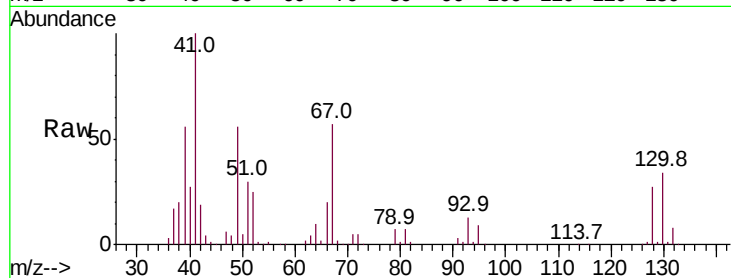
#41
Methacrylonitrile
Concen: 101.419 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tot Ion	Ratio	Lower	Upper
41	100		
39	67.0	45.4	68.0
67	74.1	54.6	81.8
52	31.7	22.8	34.2

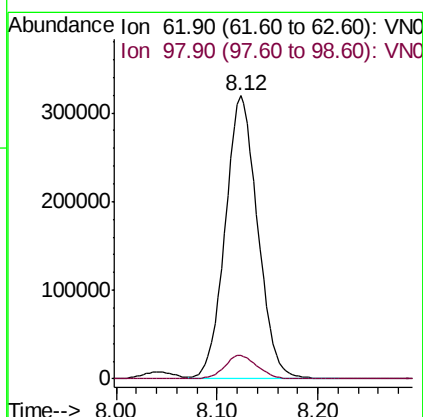
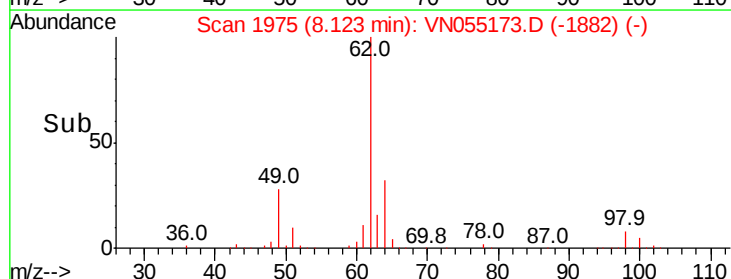
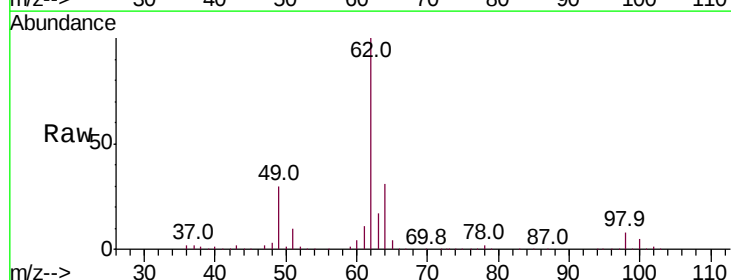
Manual Integrations
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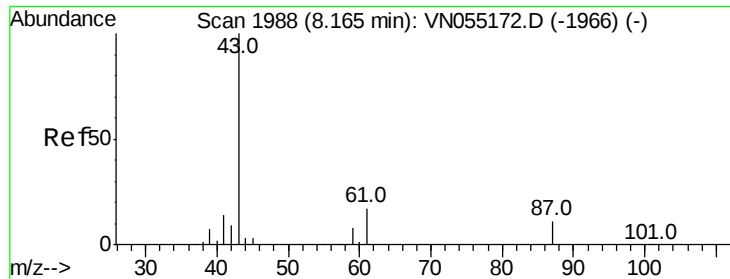
MMDadoda
4/23/2019 1:46:48 PM



#42
1,2-Dichloroethane
Concen: 96.727 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.4	0.0	17.0





#43

Isopropyl Acetate

Concen: 107.334 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. -0.00 min

Lab File: VN055173.D

Acq: 22 Apr 2019 11:03

Instrument :

MSVOA_N

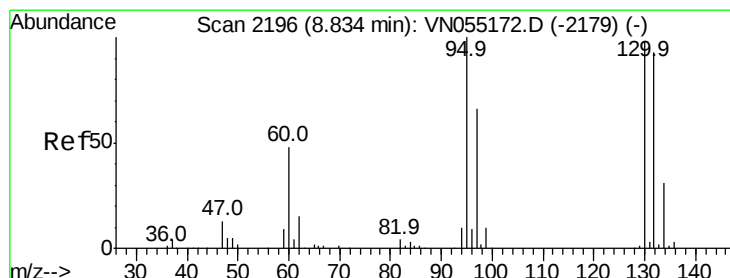
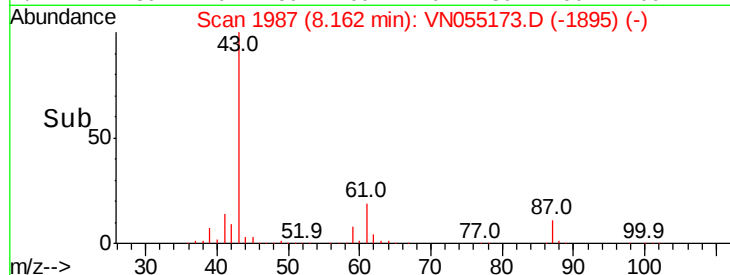
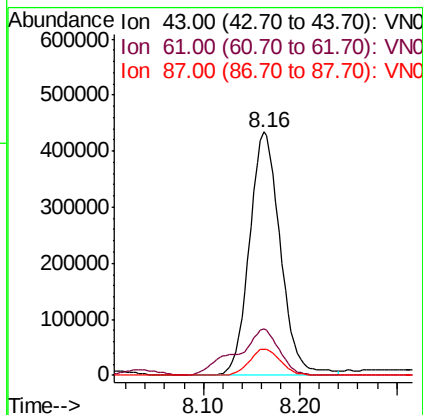
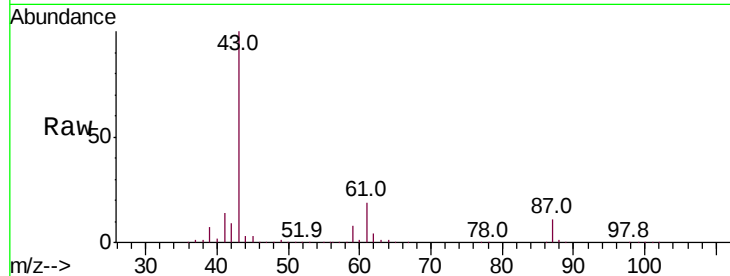
ClientSampleId :

VSTDIC100

Tot Ion:	43	Resp:	958572
Ion Ratio	Lower	Upper	
43	100		
61	26.0	20.6	30.8
87	11.0	8.8	13.2

Manual Integrations
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MMDadoda
4/23/2019 1:46:48 PM



#44

Trichloroethene

Concen: 98.567 ug/l

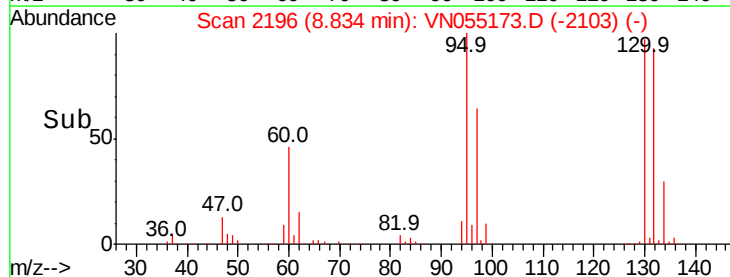
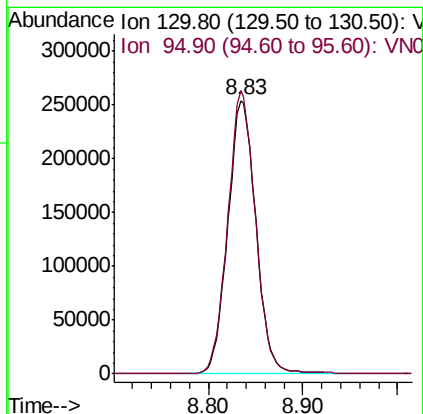
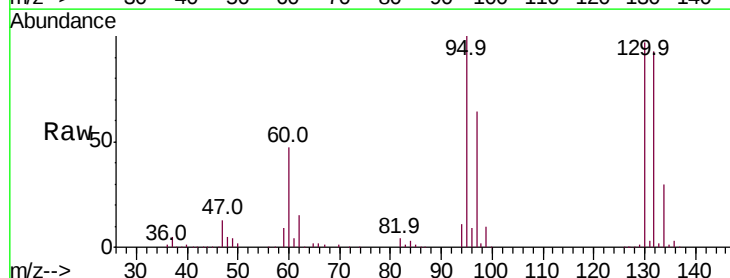
RT: 8.83 min Scan# 2196

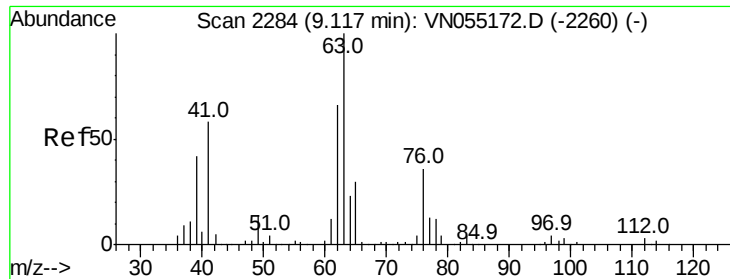
Delta R.T. -0.00 min

Lab File: VN055173.D

Acq: 22 Apr 2019 11:03

Tgt Ion:	130	Resp:	525544
Ion Ratio	Lower	Upper	
130	100		
95	103.5	0.0	203.6





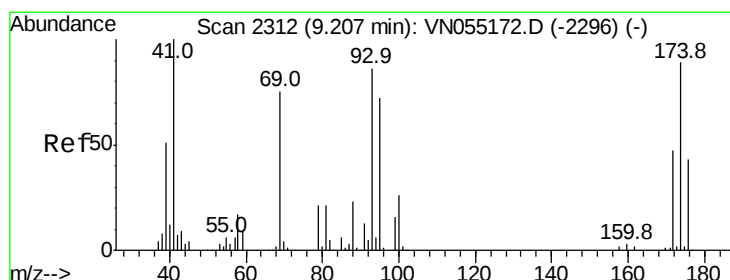
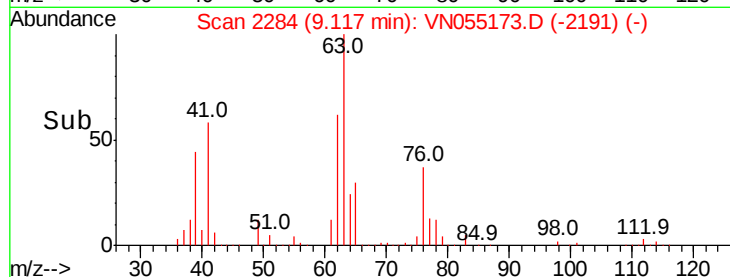
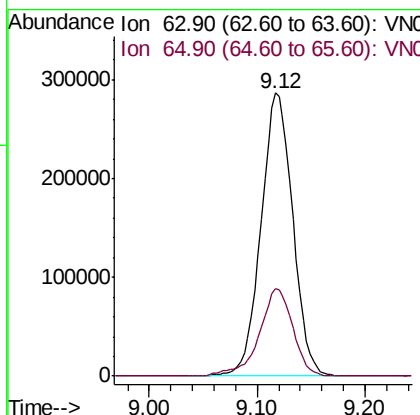
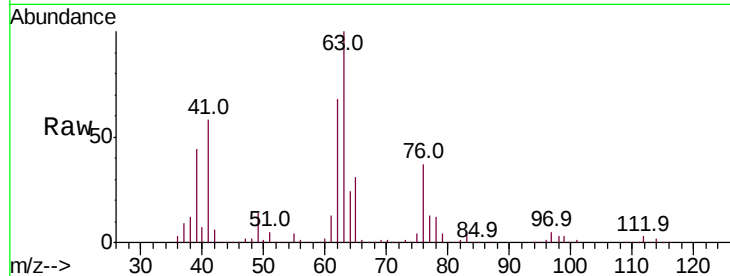
#45
 1,2-Dichloropropane
 Concen: 98.109 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN055173.D
 Acq: 22 Apr 2019 11:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.9	23.8	35.6

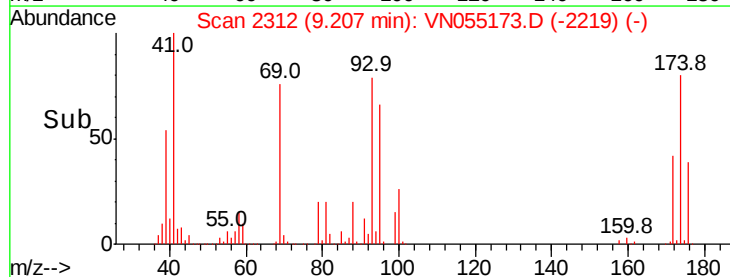
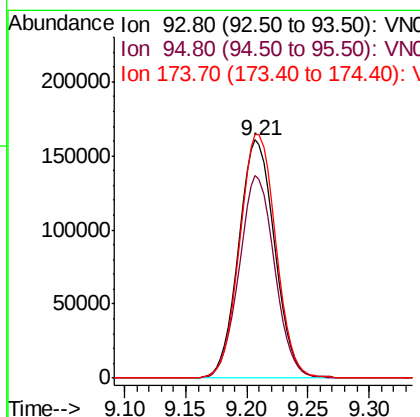
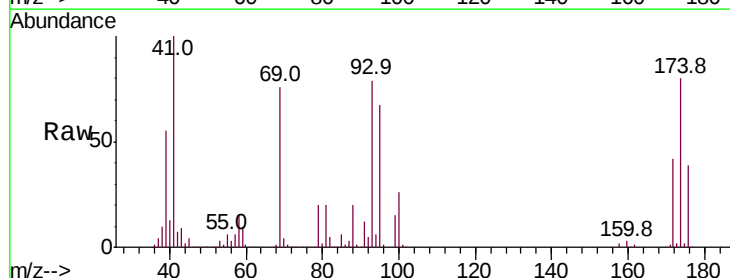
Manual Integrations
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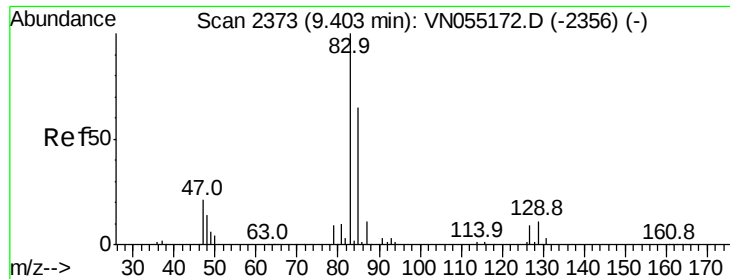
MMDadoda
 4/23/2019 1:46:48 PM



#46
 Dibromomethane
 Concen: 96.233 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN055173.D
 Acq: 22 Apr 2019 11:03

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.7	67.6	101.4
174	102.9	83.4	125.2





#47

Bromodichloromethane

Concen: 103.576 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN055173.D

Acq: 22 Apr 2019 11:03

Instrument :

MSVOA_N

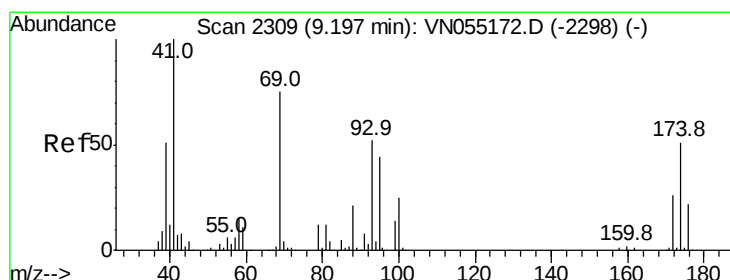
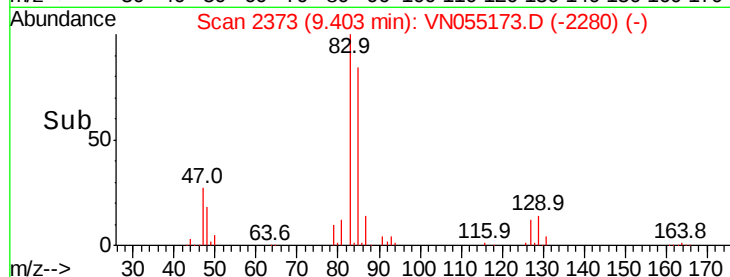
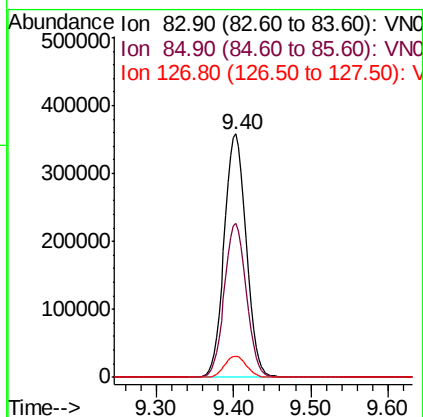
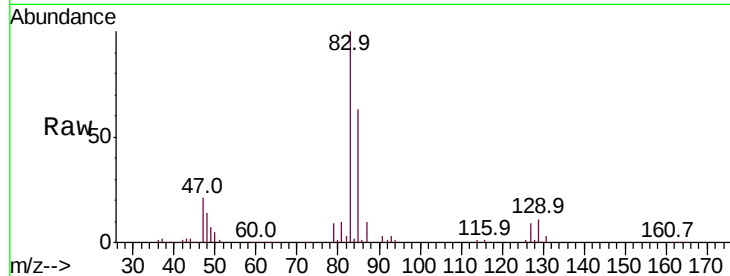
ClientSampleId :

VSTDIC100

Tot Ion:	83	Resp:	706806
Ion Ratio	Lower	Upper	
83	100		
85	63.1	52.1	78.1
127	8.8	6.9	10.3

Manual Integrations
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4/23/2019 1:46:48 PM



#48

Methyl methacrylate

Concen: 107.060 ug/l

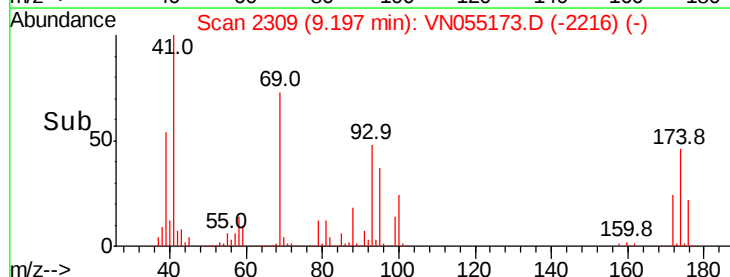
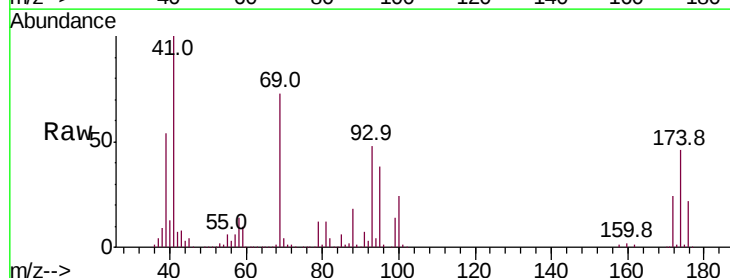
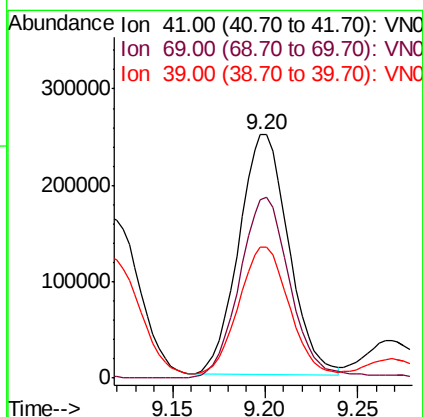
RT: 9.20 min Scan# 2309

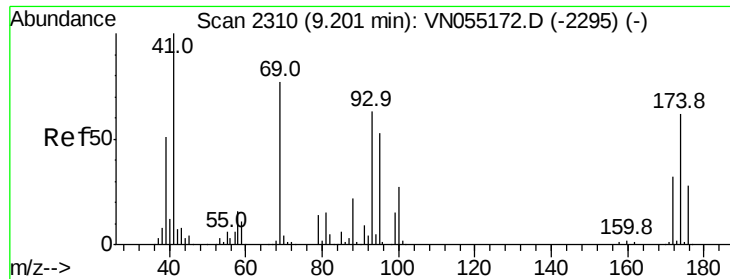
Delta R.T. -0.00 min

Lab File: VN055173.D

Acq: 22 Apr 2019 11:03

Tgt Ion:	41	Resp:	463789
Ion Ratio	Lower	Upper	
41	100		
69	77.5	63.6	95.4
39	56.1	43.8	65.8





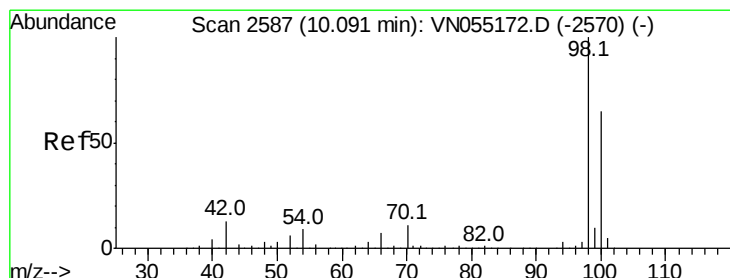
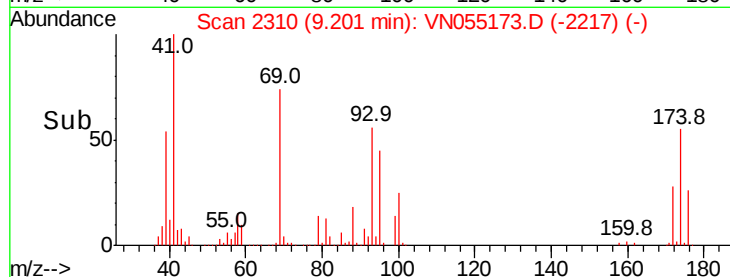
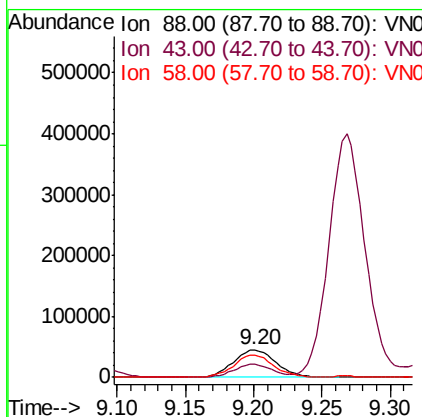
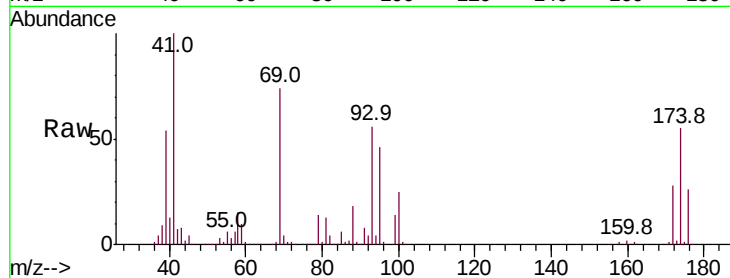
#49
1,4-Dioxane
Concen: 1965.022 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	88	Resp	98306
Ion	Ratio	Lower	Upper
88	100		
43	40.6	32.0	48.0
58	75.9	60.4	90.6

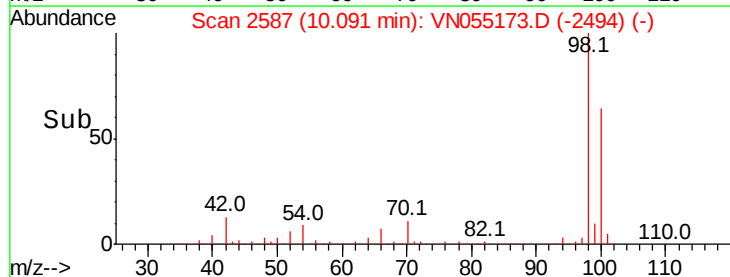
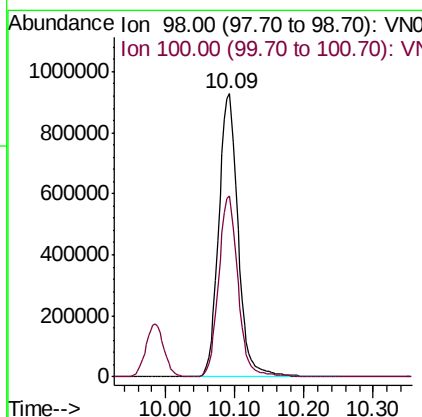
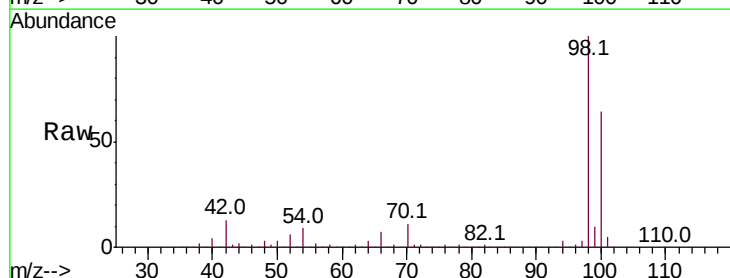
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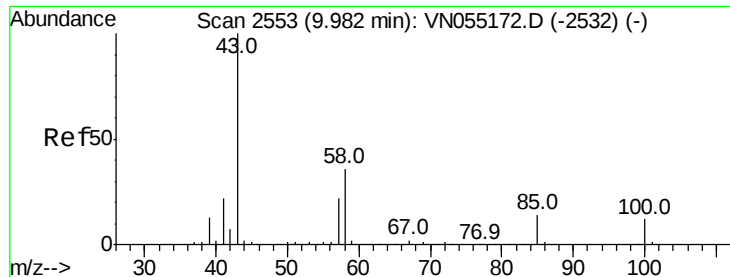
MMDadoda
4/23/2019 1:46:48 PM



#50
Toluene-d8
Concen: 94.240 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Tgt Ion	98	Resp	1802452
Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.8	77.6





#51

4-Methyl-2-Pentanone

Concen: 518.422 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN055173.D

Acq: 22 Apr 2019 11:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 2664170

Ion Ratio Lower Upper

43 100

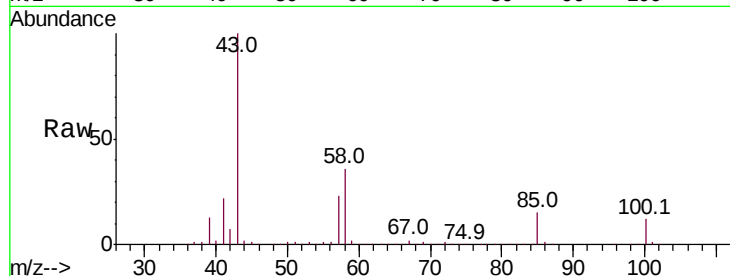
58 35.8 28.3 42.5

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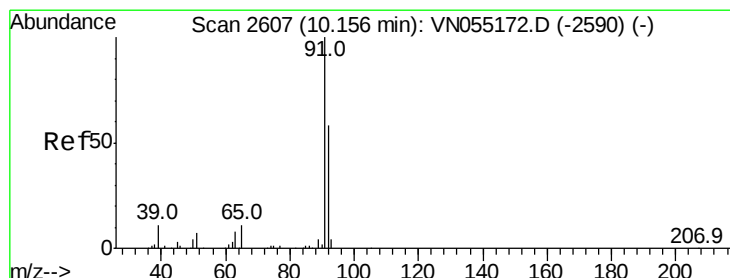
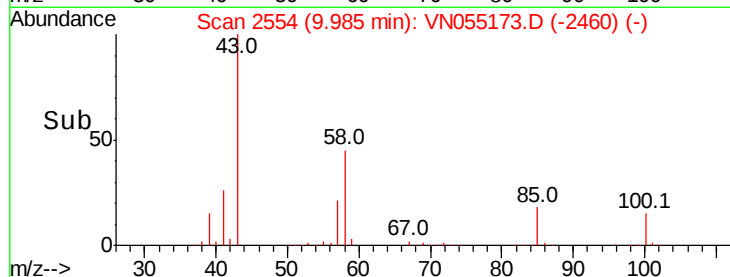
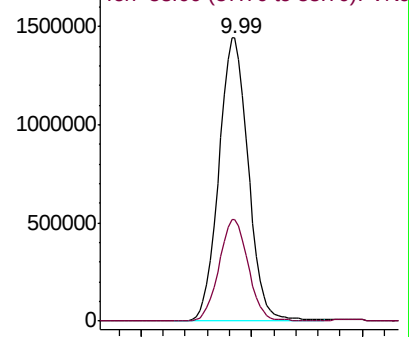
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 99.811 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN055173.D

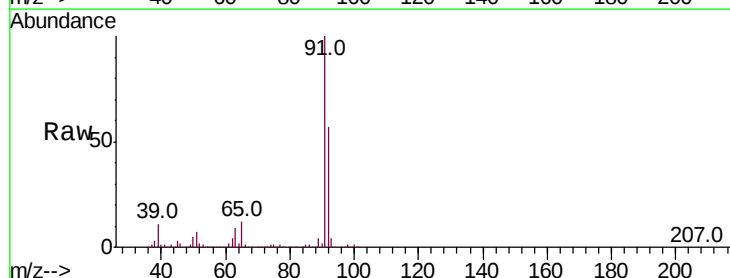
Acq: 22 Apr 2019 11:03

Tgt Ion: 92 Resp: 1234336

Ion Ratio Lower Upper

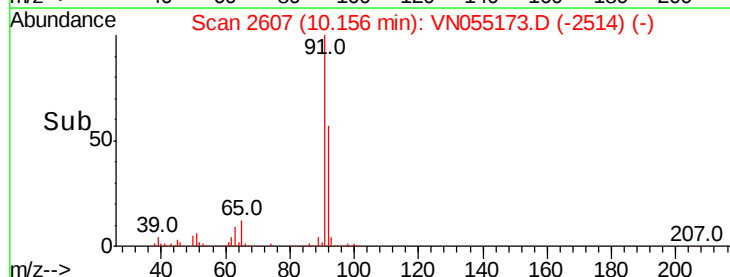
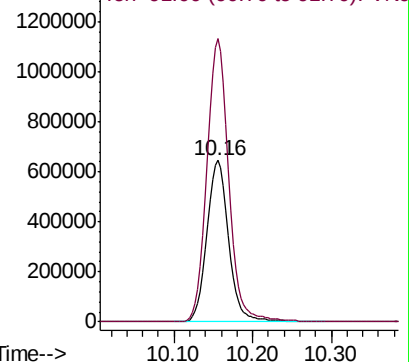
92 100

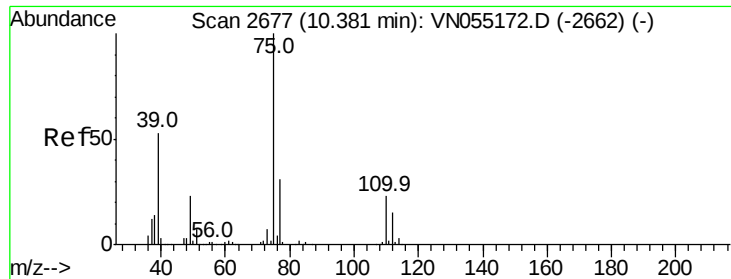
91 175.5 138.7 208.1



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





#53

t-1,3-Dichloropropene

Concen: 115.956 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VN055173.D

Acq: 22 Apr 2019 11:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 75 Resp: 726176

Ion Ratio Lower Upper

75 100

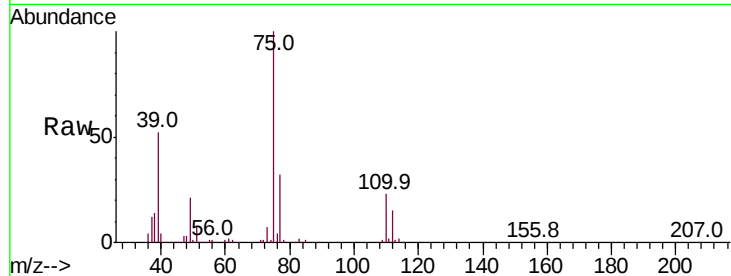
77 31.8 25.1 37.7

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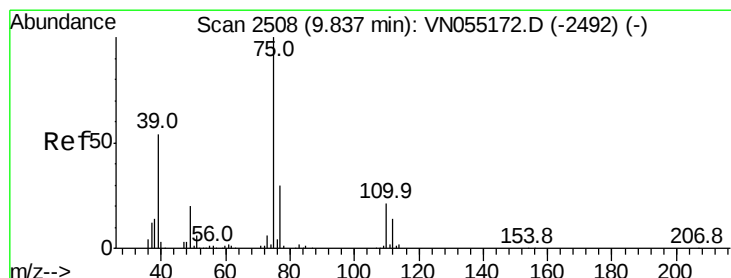
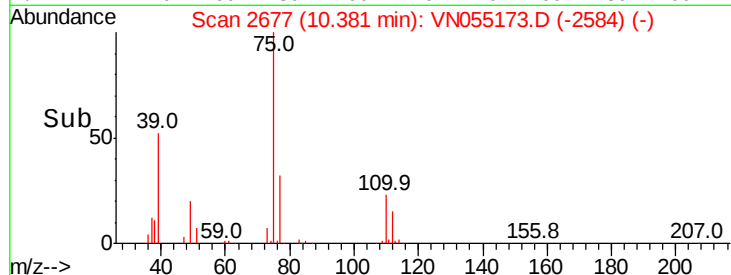
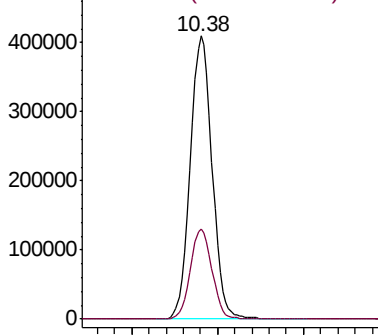
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Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#54

cis-1,3-Dichloropropene

Concen: 109.294 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN055173.D

Acq: 22 Apr 2019 11:03

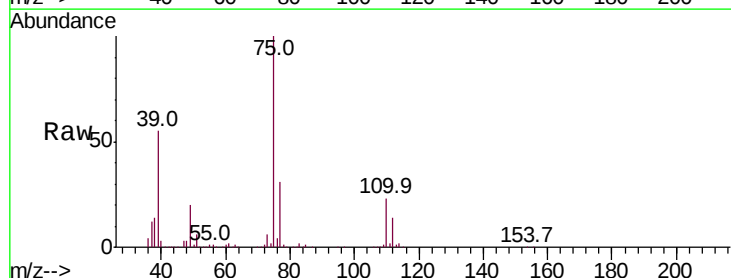
Tgt Ion: 75 Resp: 849384

Ion Ratio Lower Upper

75 100

77 31.0 24.3 36.5

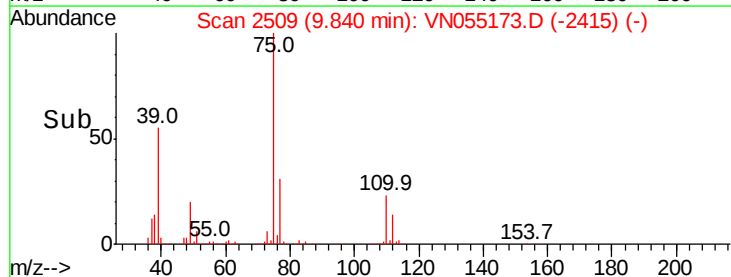
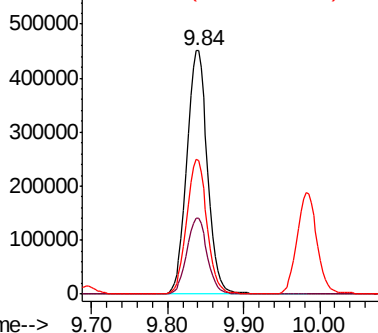
39 54.5 43.0 64.4

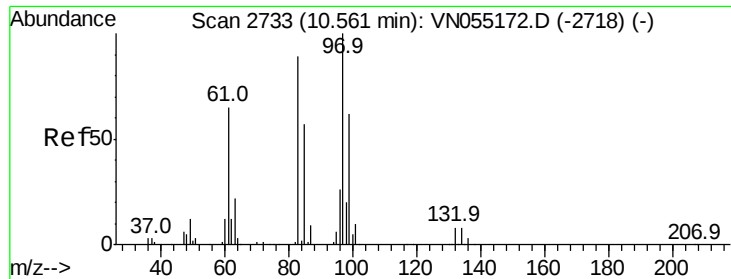


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





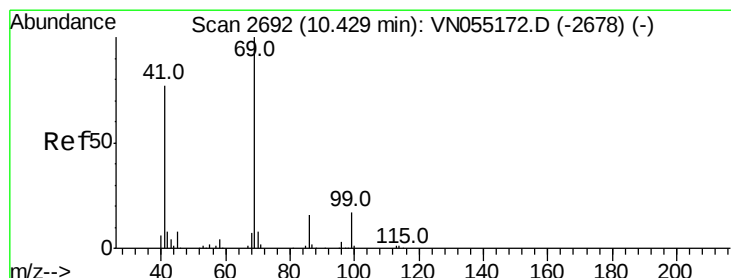
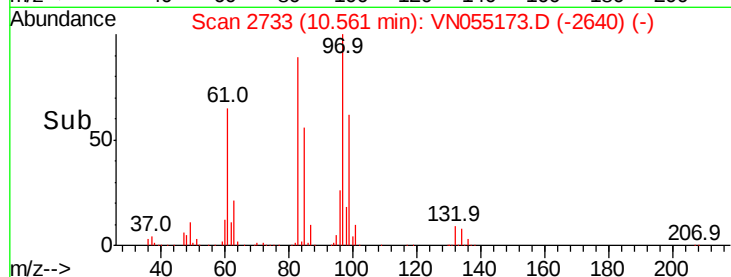
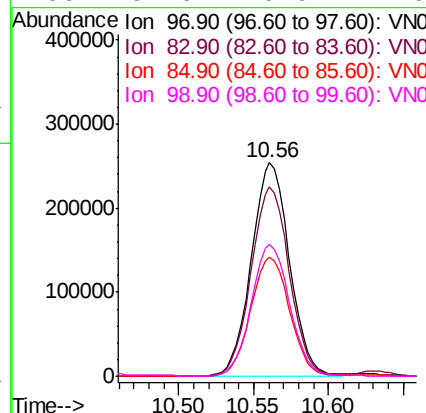
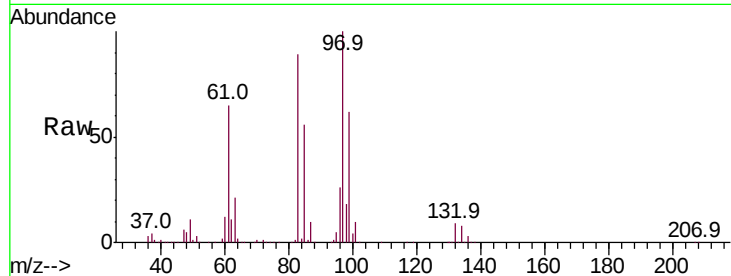
#55
 1,1,2-Trichloroethane
 Concen: 98.868 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN055173.D
 Acq: 22 Apr 2019 11:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion:	97	Resp:	450770
Ion	Ratio	Lower	Upper
97	100		
83	88.8	71.5	107.3
85	55.8	45.8	68.6
99	61.6	49.9	74.9

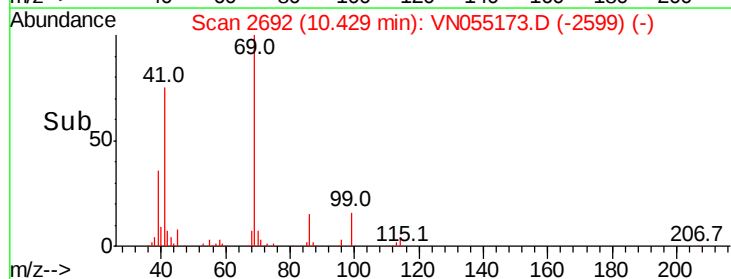
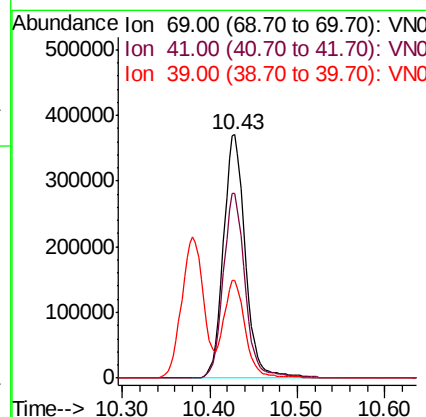
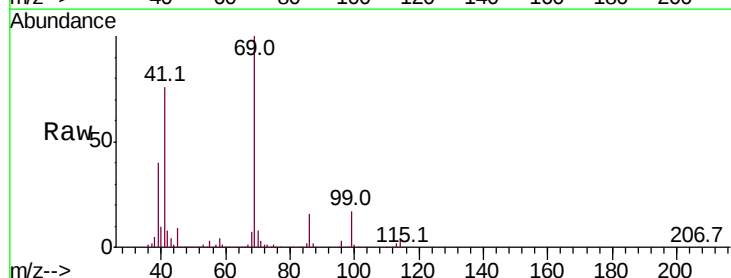
Manual Integrations
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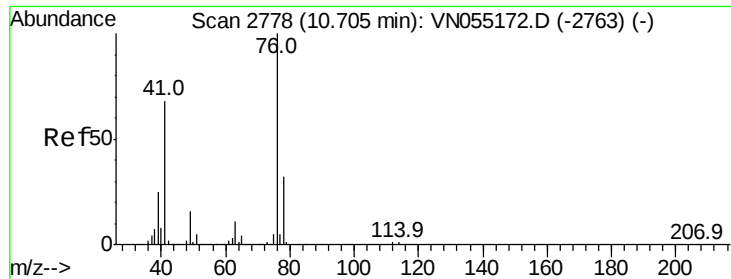
MMDadoda
 4/23/2019 1:46:48 PM



#56
 Ethyl methacrylate
 Concen: 113.559 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. -0.00 min
 Lab File: VN055173.D
 Acq: 22 Apr 2019 11:03

Tgt Ion:	69	Resp:	644984
Ion	Ratio	Lower	Upper
69	100		
41	75.9	60.6	90.8
39	39.2	31.7	47.5





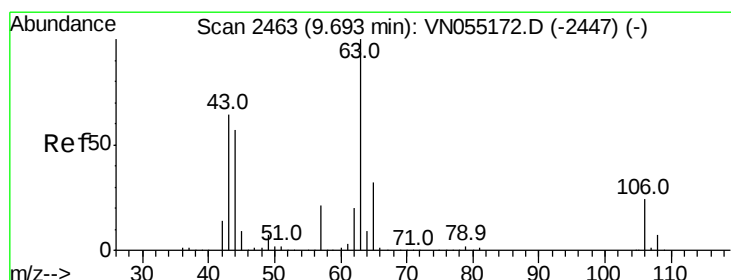
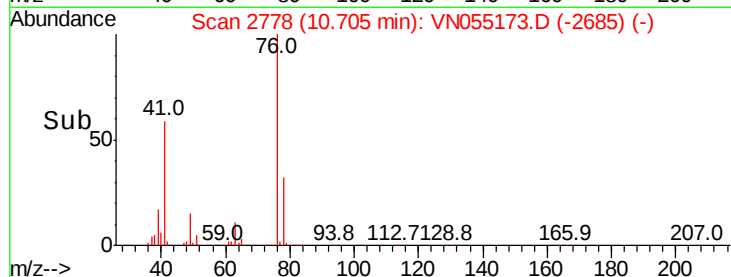
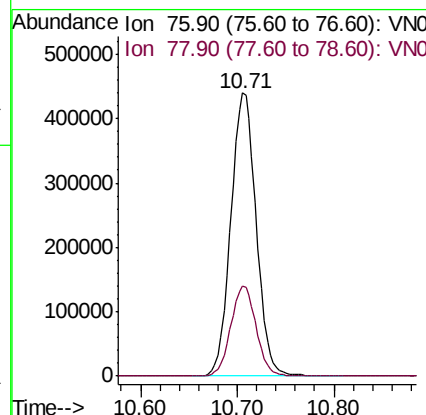
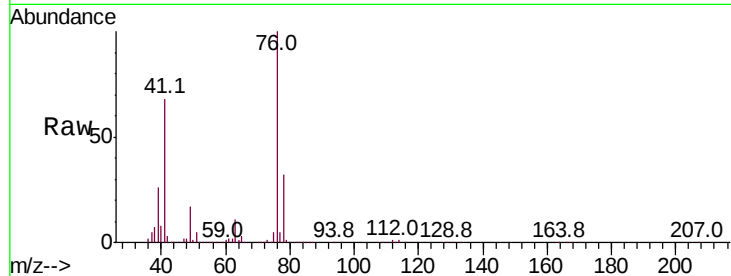
#57
 1,3-Dichloropropane
 Concen: 100.965 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. -0.00 min
 Lab File: VN055173.D
 Acq: 22 Apr 2019 11:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion: 76 Resp: 800898
 Ion Ratio Lower Upper
 76 100
 78 32.0 25.3 37.9

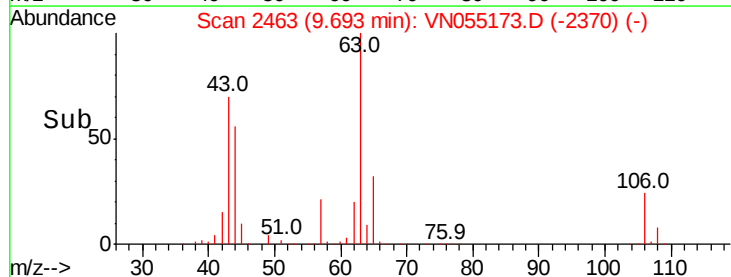
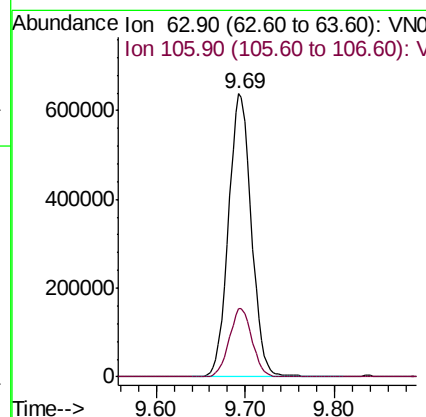
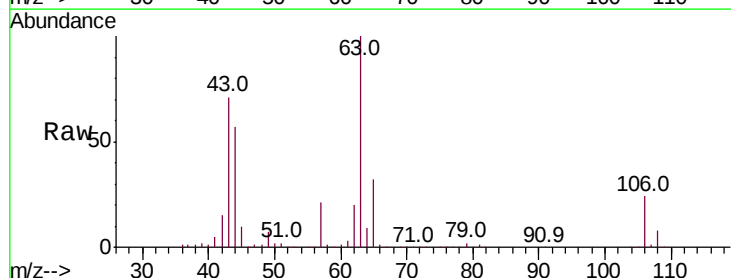
Manual Integrations
 APPROVED

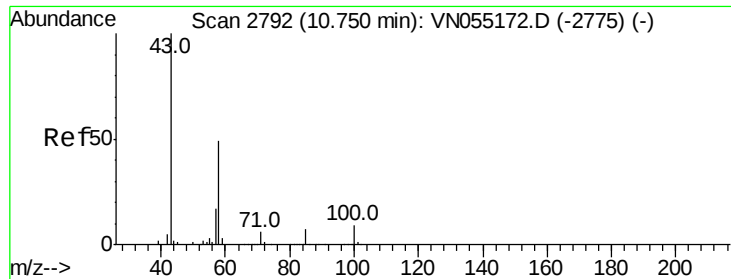
MMDadoda
 4/23/2019 1:46:48 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 618.491 ug/l
 RT: 9.69 min Scan# 2463
 Delta R.T. -0.00 min
 Lab File: VN055173.D
 Acq: 22 Apr 2019 11:03

Tgt Ion: 63 Resp: 1132577
 Ion Ratio Lower Upper
 63 100
 106 24.2 19.4 29.0





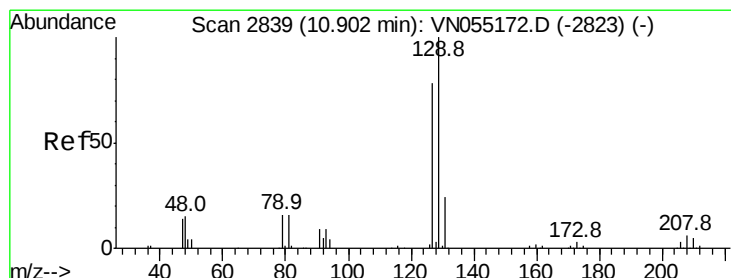
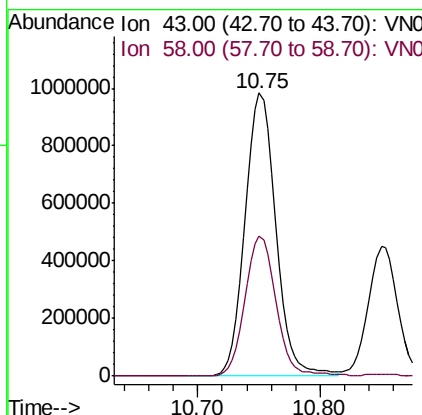
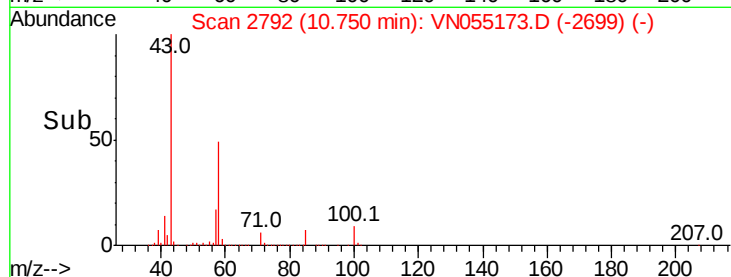
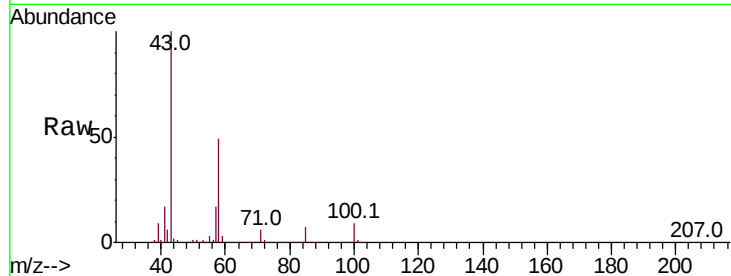
#59
2-Hexanone
Concen: 526.431 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 43 Resp: 1708812
Ion Ratio Lower Upper
43 100
58 49.9 24.5 73.5

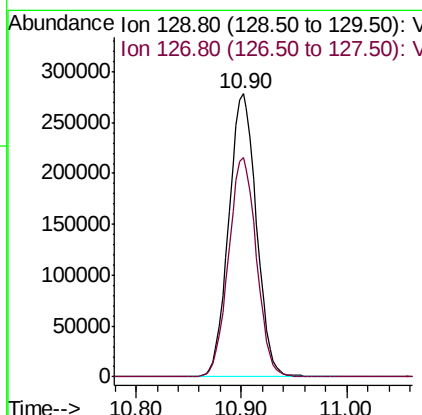
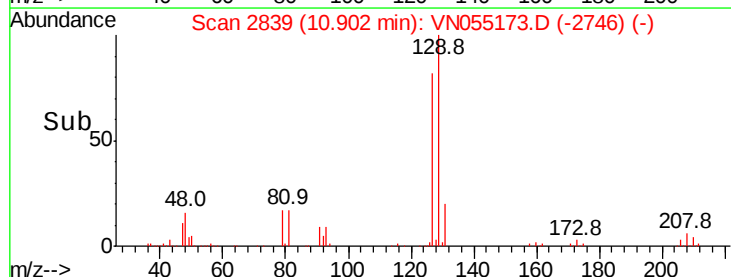
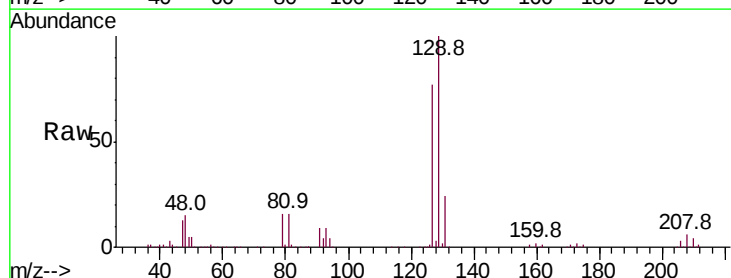
Manual Integrations
APPROVED

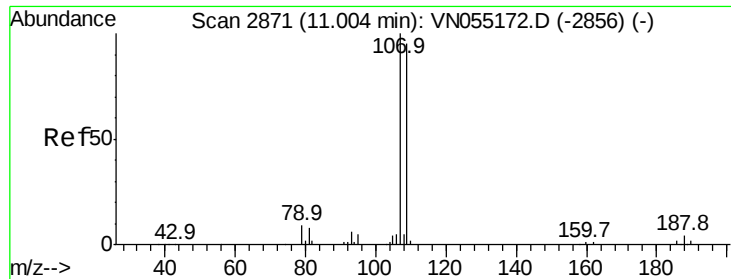
MMDadoda
4/23/2019 1:46:48 PM



#60
Dibromochloromethane
Concen: 107.671 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Tgt Ion: 129 Resp: 505640
Ion Ratio Lower Upper
129 100
127 78.0 39.0 117.0





#61

1,2-Dibromoethane

Concen: 105.537 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. -0.00 min

Lab File: VN055173.D

Acq: 22 Apr 2019 11:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:107 Resp: 452398

Ion Ratio Lower Upper

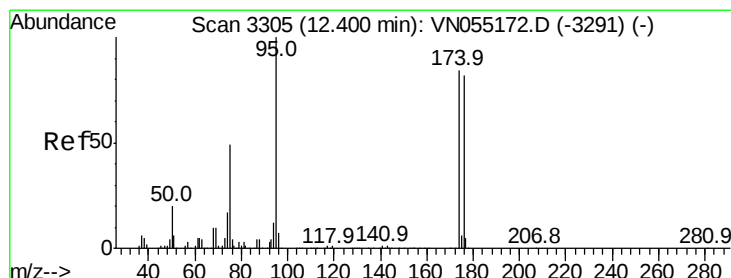
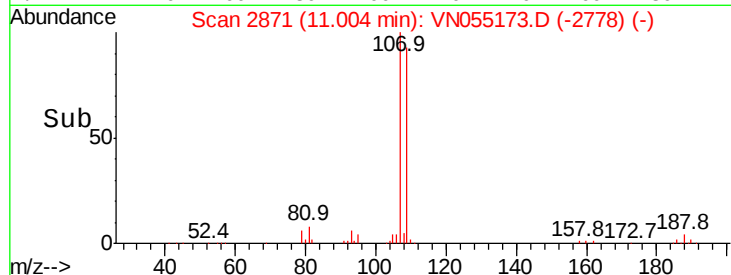
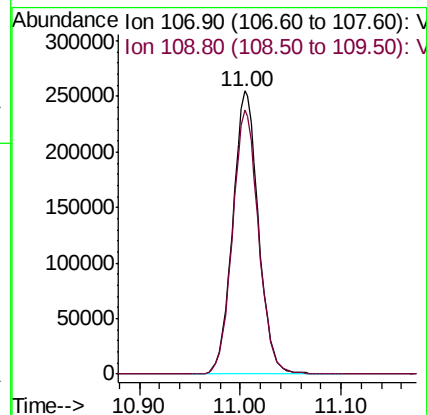
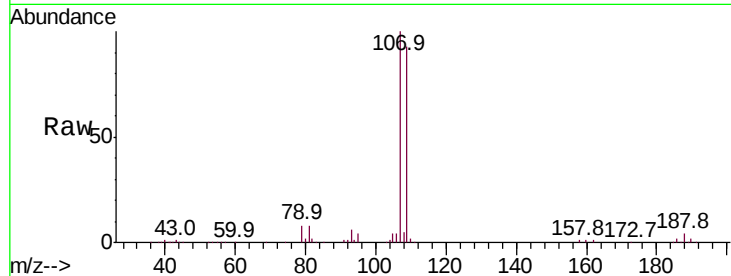
107 100

109 94.5 75.8 113.6

Manual Integrations
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MMDadoda

4/23/2019 1:46:48 PM



#62

4-Bromofluorobenzene

Concen: 101.185 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN055173.D

Acq: 22 Apr 2019 11:03

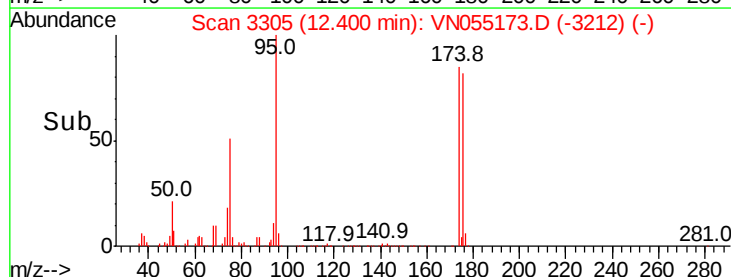
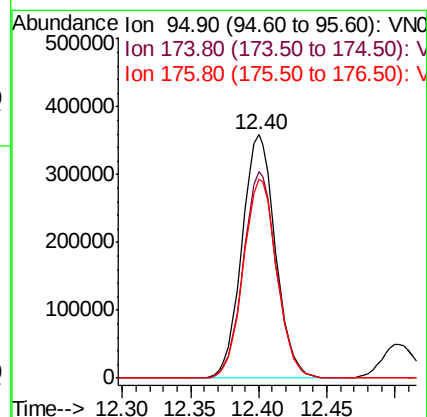
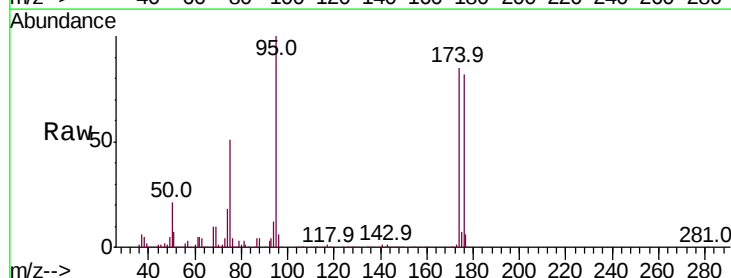
Tgt Ion: 95 Resp: 609865

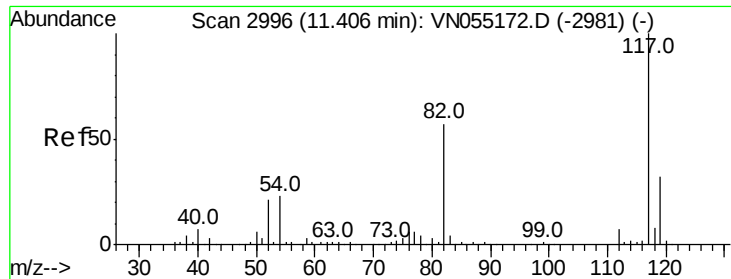
Ion Ratio Lower Upper

95 100

174 84.1 0.0 168.4

176 82.1 0.0 164.0





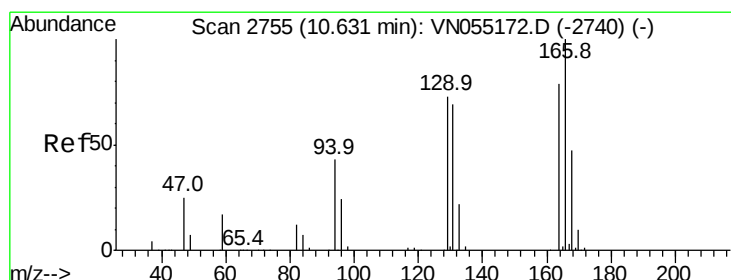
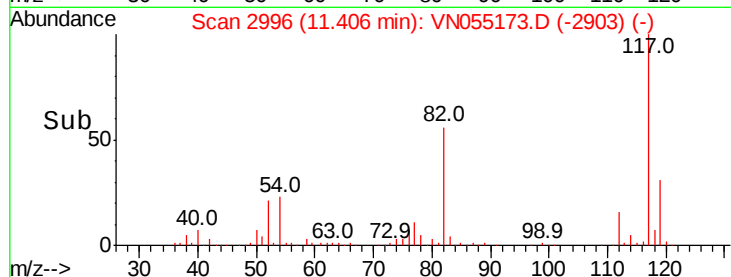
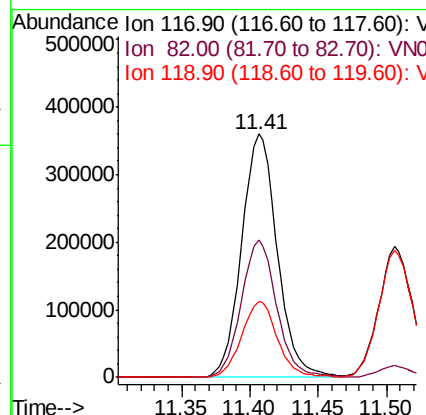
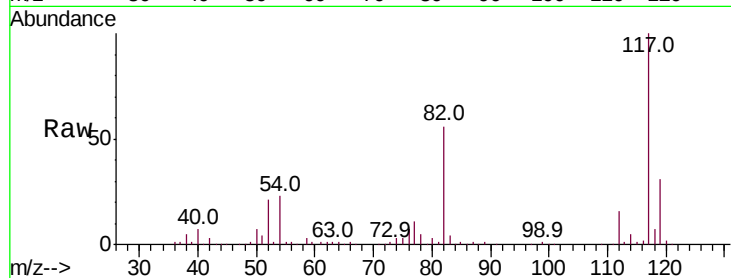
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.3	45.7	68.5
119	30.9	25.4	38.2

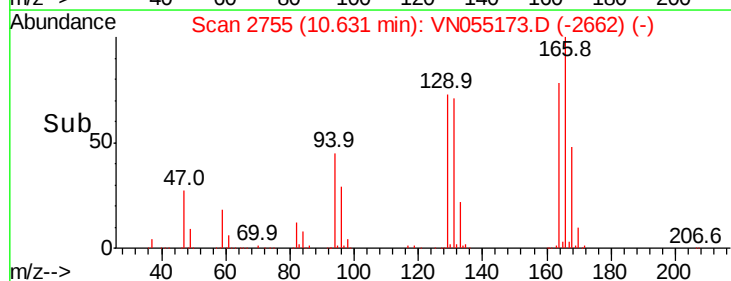
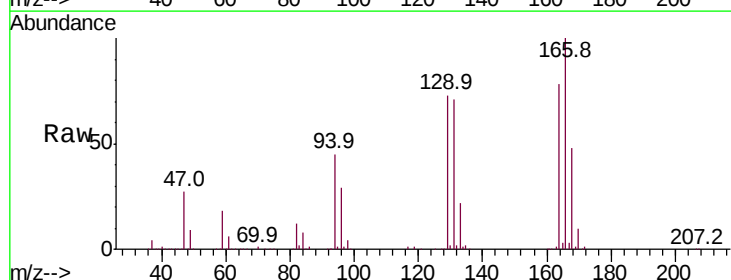
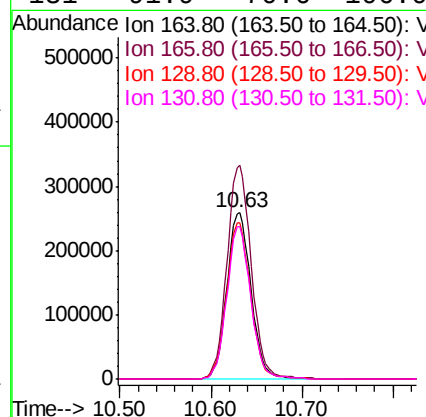
Manual Integrations
APPROVED

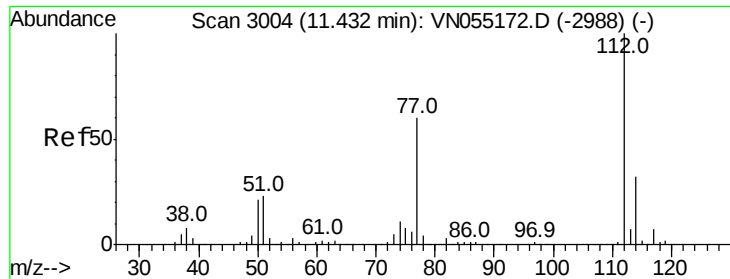
MMDadoda
4/23/2019 1:46:48 PM



#64
Tetrachloroethene
Concen: 89.562 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.6	101.9	152.9
129	94.1	74.1	111.1
131	91.9	70.6	106.0





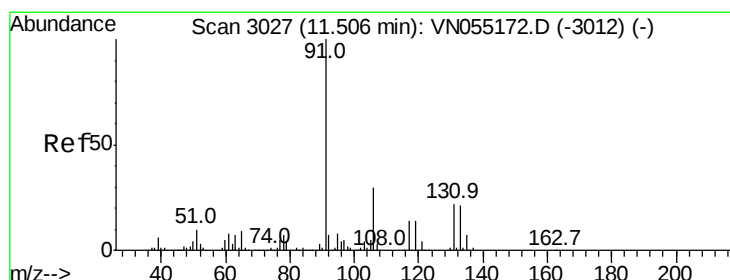
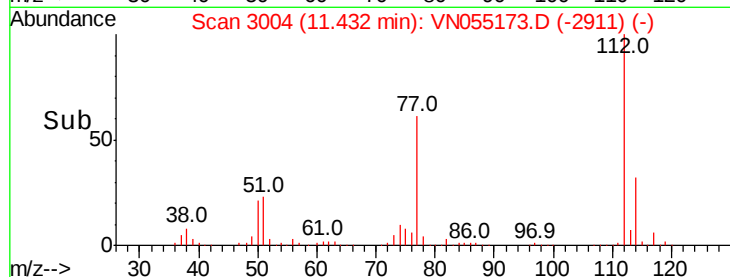
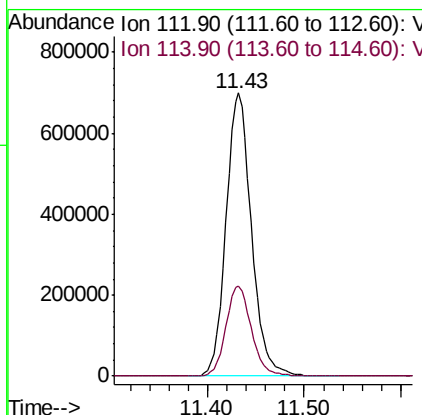
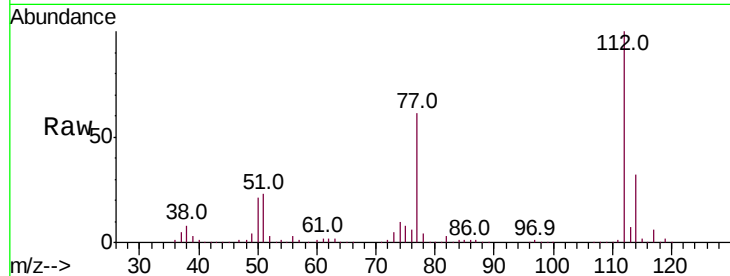
#65
Chlorobenzene
Concen: 95.000 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion:112 Resp: 1270181
Ion Ratio Lower Upper
112 100
114 31.9 25.4 38.0

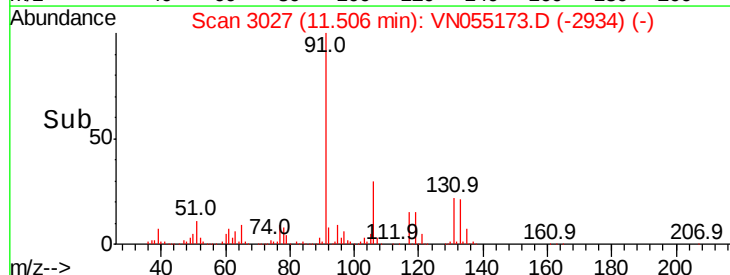
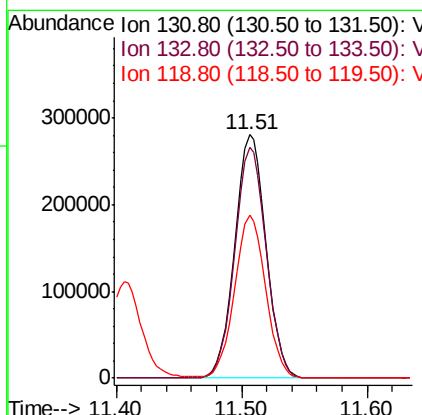
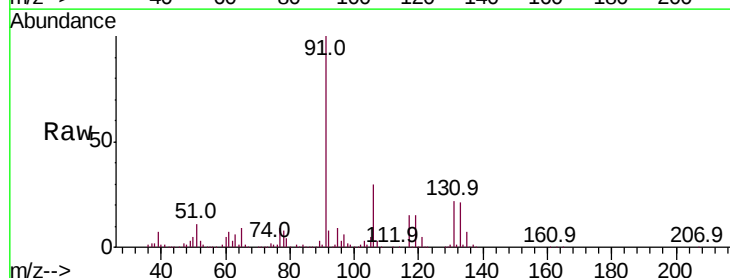
Manual Integrations
APPROVED

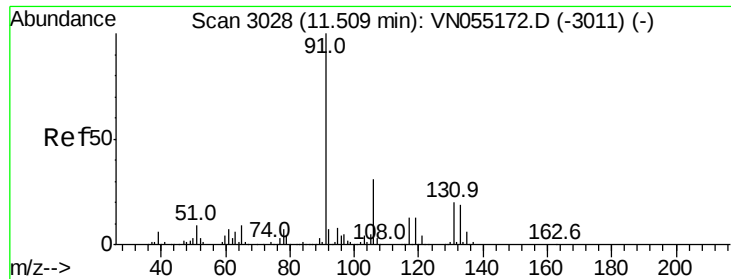
MMDadoda
4/23/2019 1:46:48 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 97.862 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Tgt Ion:131 Resp: 484947
Ion Ratio Lower Upper
131 100
133 95.4 47.7 143.1
119 66.6 33.2 99.6





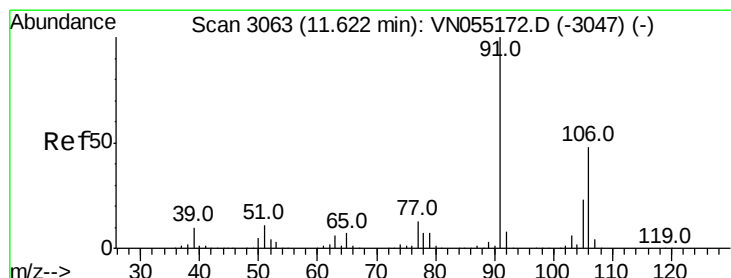
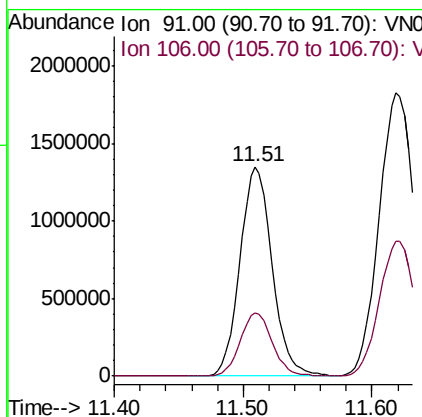
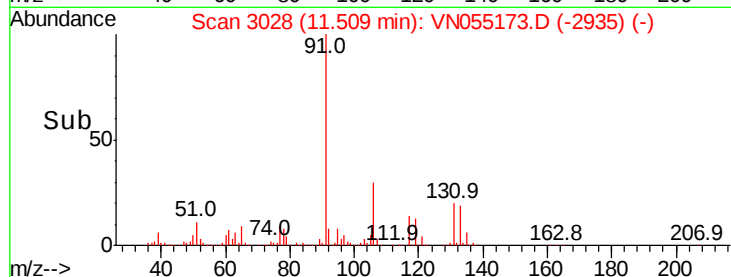
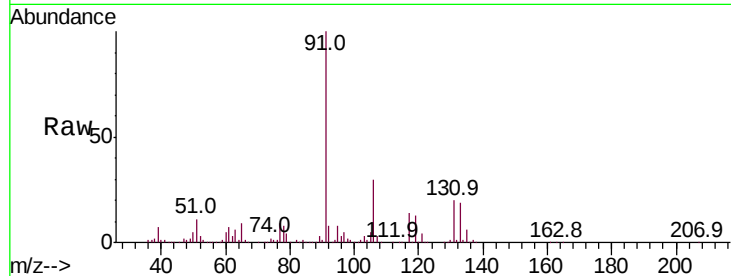
#67
Ethyl Benzene
Concen: 98.492 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 91 Resp: 2345744
Ion Ratio Lower Upper
91 100
106 30.4 24.5 36.7

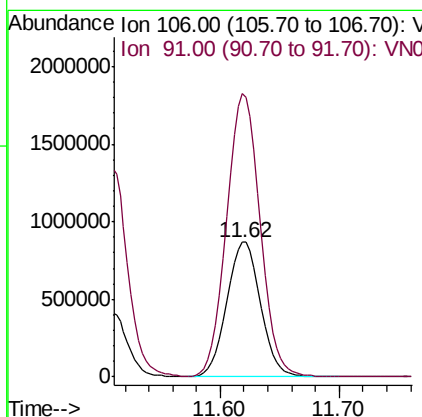
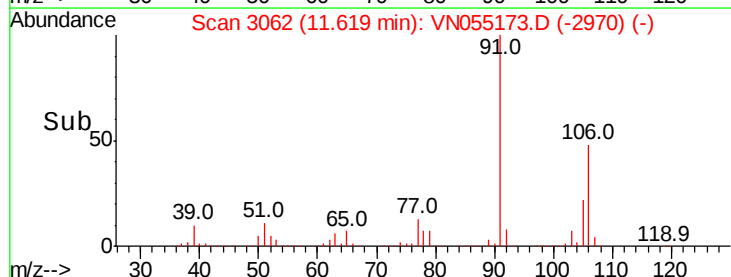
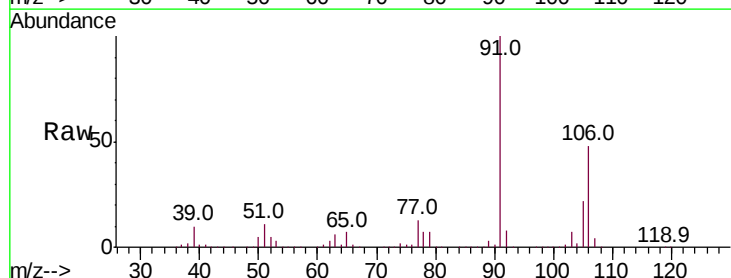
Manual Integrations
APPROVED

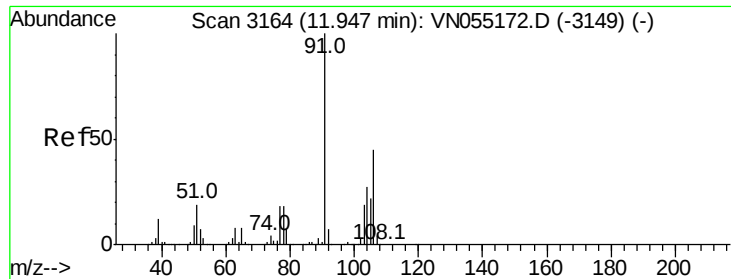
MMDadoda
4/23/2019 1:46:48 PM



#68
m/p-Xylenes
Concen: 199.575 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Tgt Ion: 106 Resp: 1704786
Ion Ratio Lower Upper
106 100
91 209.0 167.1 250.7





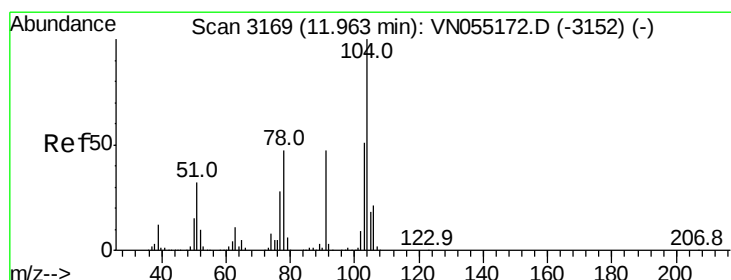
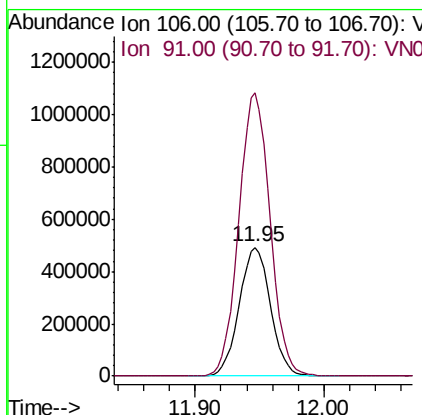
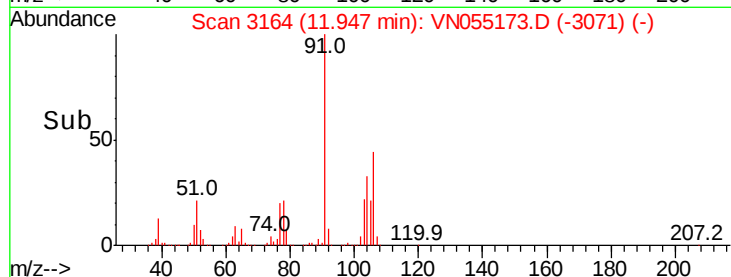
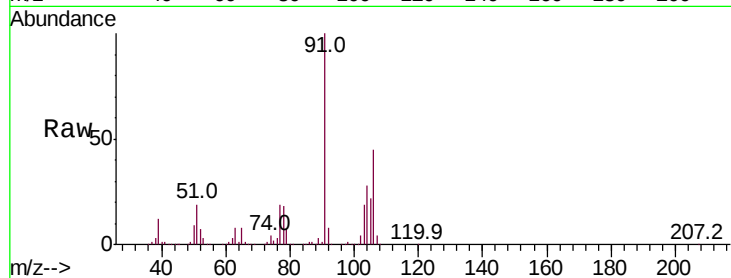
#69
o-Xylene
Concen: 97.881 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion:106 Resp: 829754
Ion Ratio Lower Upper
106 100
91 219.9 110.6 331.8

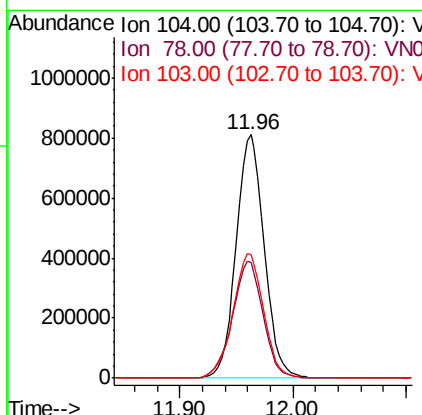
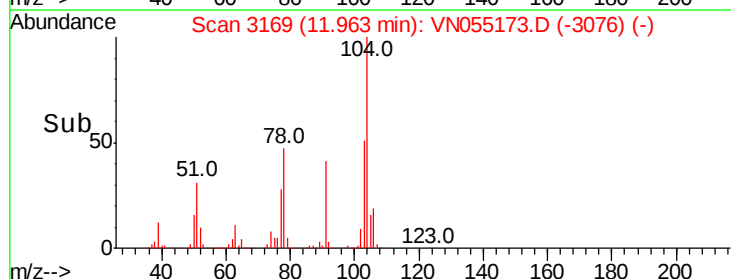
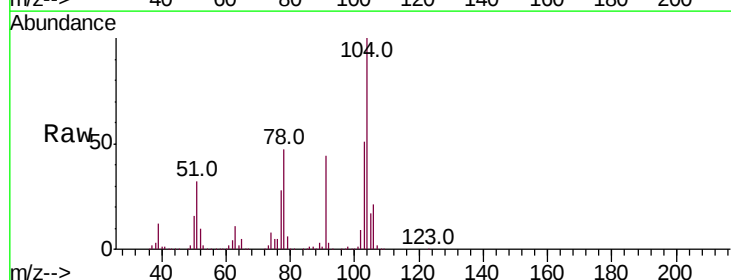
Manual Integrations
APPROVED

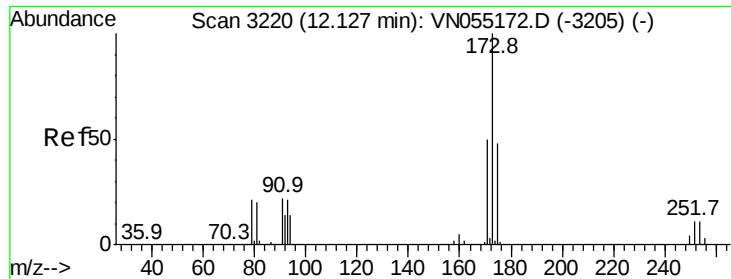
MMDadoda
4/23/2019 1:46:48 PM



#70
Styrene
Concen: 106.681 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Tgt Ion:104 Resp: 1401806
Ion Ratio Lower Upper
104 100
78 52.0 41.3 61.9
103 55.6 44.2 66.4





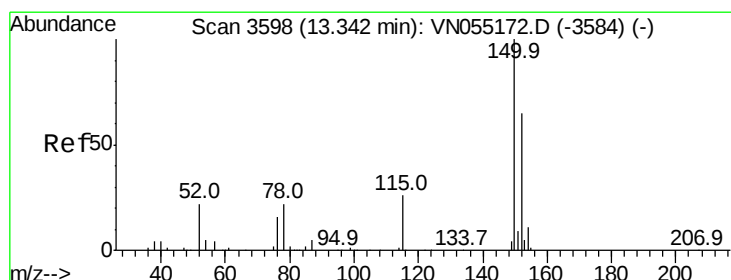
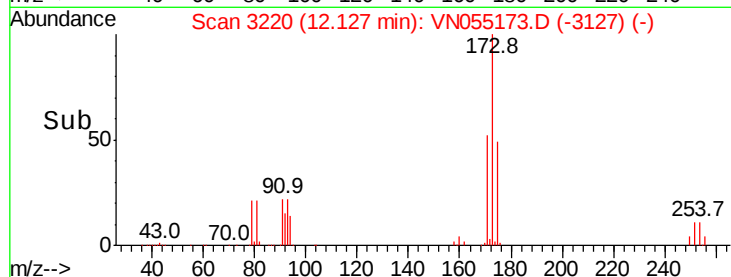
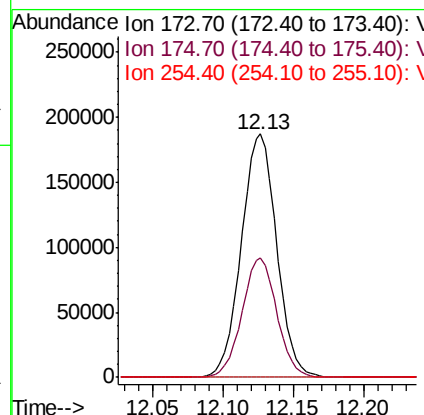
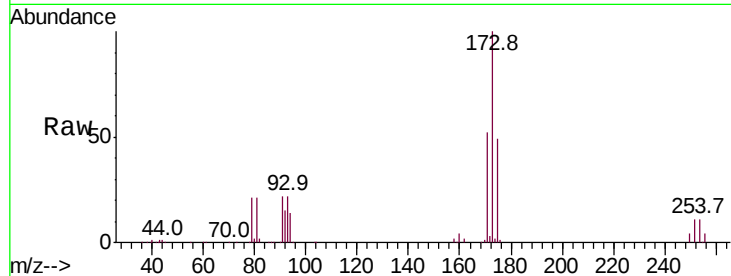
#71
Bromoform
Concen: 111.163 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.2	23.8	71.2
254	0.1	0.1	0.1#

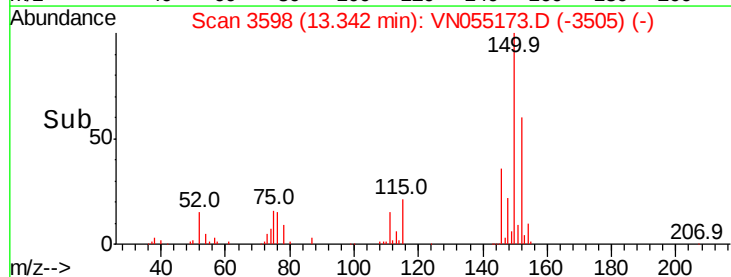
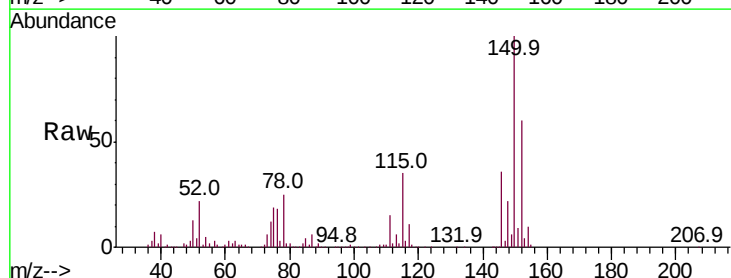
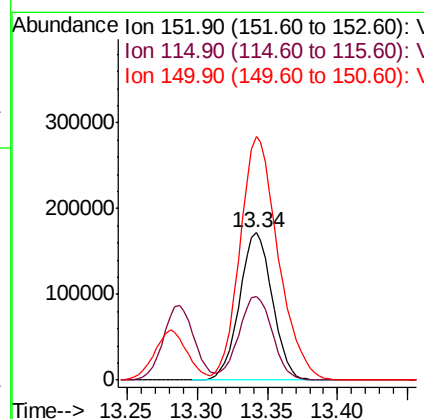
Manual Integrations
APPROVED

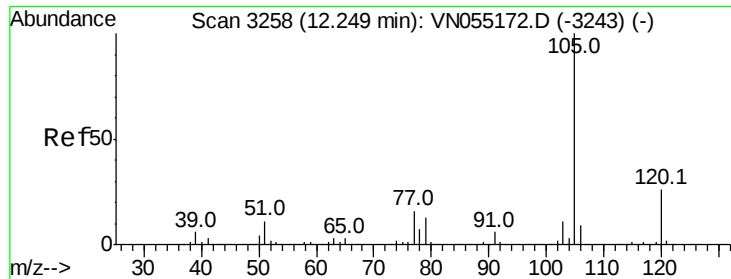
MMDadoda
4/23/2019 1:46:48 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.0	28.9	86.7
150	191.5	0.0	346.6





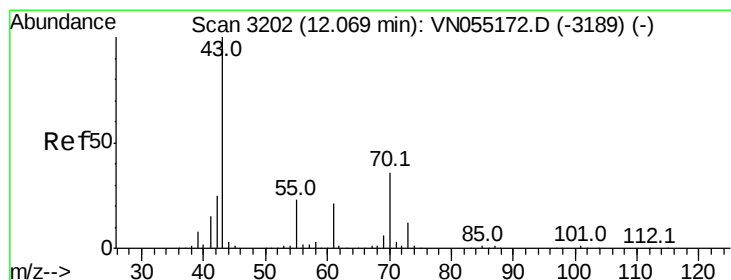
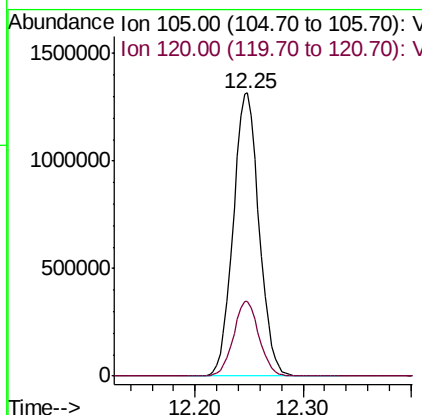
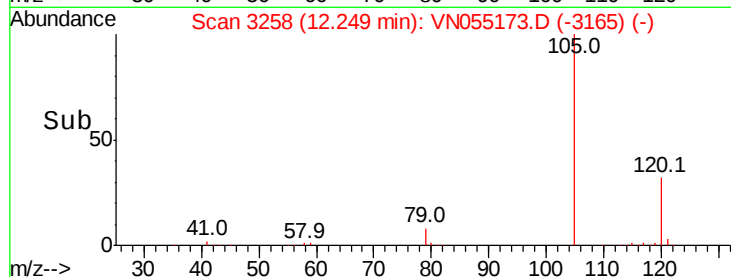
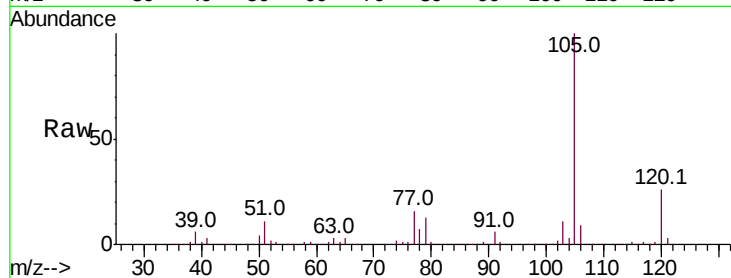
#73
Isopropylbenzene
Concen: 81.328 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion:105 Resp: 2194360
Ion Ratio Lower Upper
105 100
120 26.1 13.1 39.1

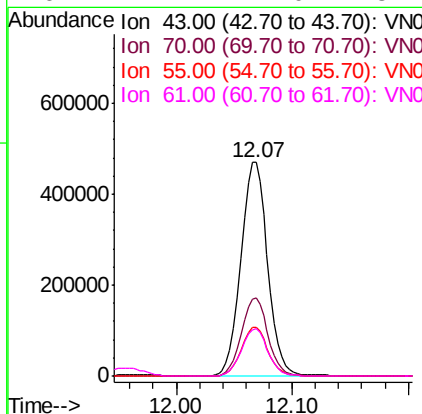
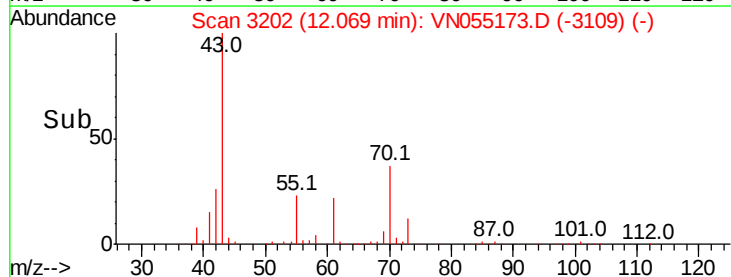
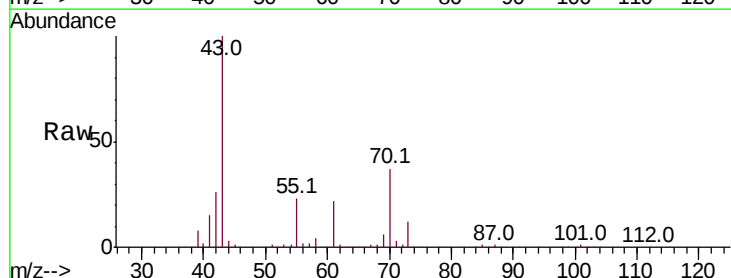
Manual Integrations
APPROVED

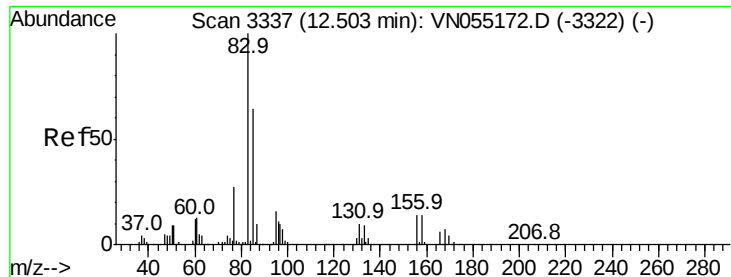
MMDadoda
4/23/2019 1:46:48 PM



#74
N-ethyl acetate
Concen: 103.294 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Tgt Ion: 43 Resp: 748494
Ion Ratio Lower Upper
43 100
70 36.5 29.0 43.6
55 22.7 18.5 27.7
61 22.1 17.0 25.4





#75

1,1,2,2-Tetrachloroethane

Concen: 77.574 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN055173.D

Acq: 22 Apr 2019 11:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 83 Resp: 553908

Ion Ratio Lower Upper

83 100

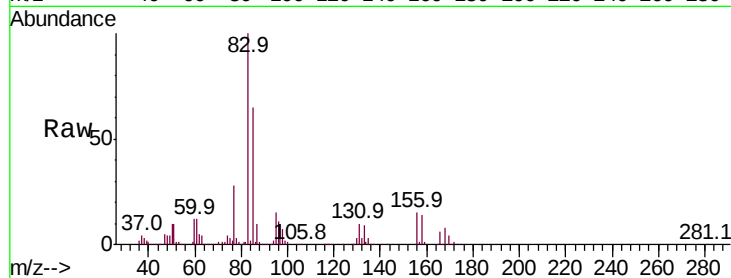
131 10.3 5.0 15.0

85 64.6 32.1 96.3

Manual Integrations
APPROVED

MMDadoda

4/23/2019 1:46:48 PM

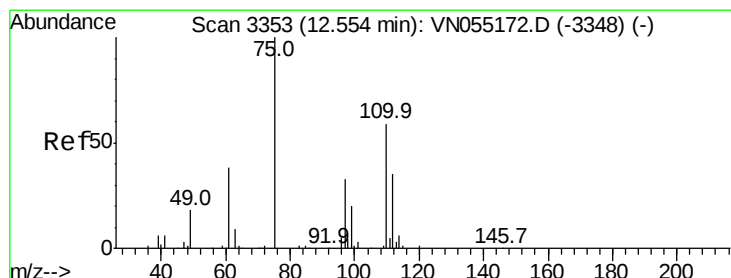
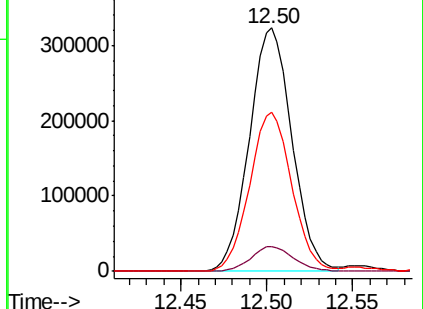
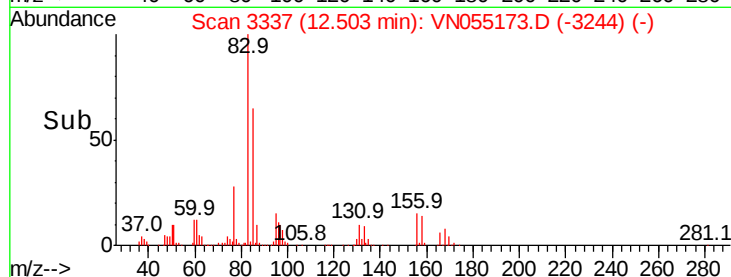


Abundance Ion 82.90 (82.60 to 83.60): VN055173.D (-3322) (-)

Ion 130.80 (130.50 to 131.50): VN055173.D (-3322) (-)

Ion 84.90 (84.60 to 85.60): VN055173.D (-3322) (-)

Time-->



#76

1,2,3-Trichloropropane

Concen: 93.192 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VN055173.D

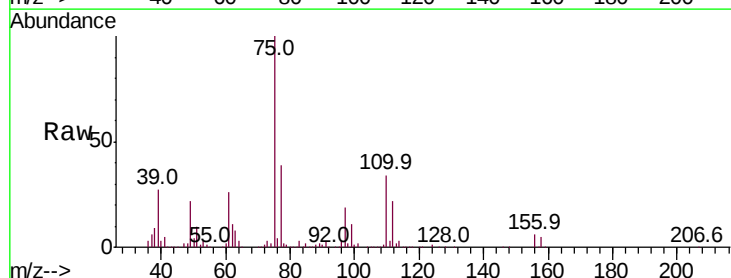
Acq: 22 Apr 2019 11:03

Tgt Ion: 75 Resp: 490867

Ion Ratio Lower Upper

75 100

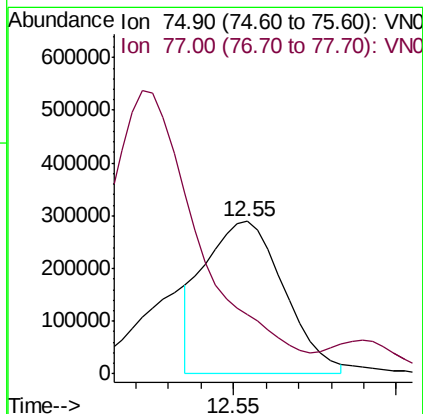
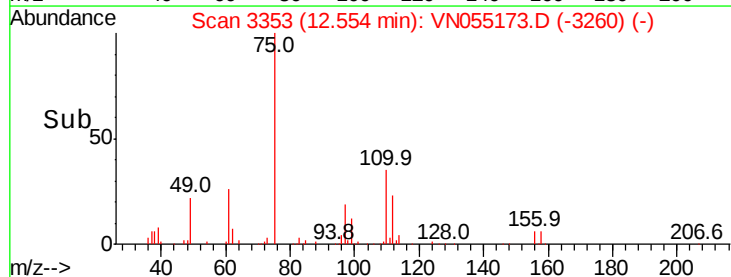
77 0.0 0.0 0.0

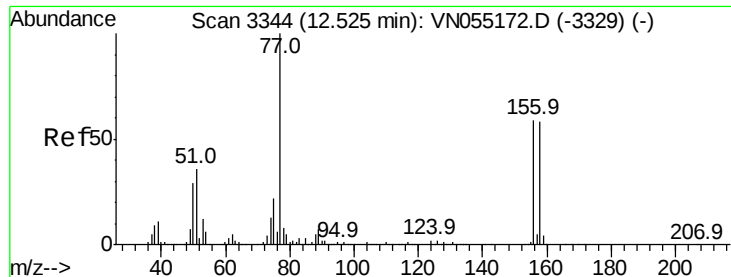


Abundance Ion 74.90 (74.60 to 75.60): VN055173.D (-3348) (-)

Ion 77.00 (76.70 to 77.70): VN055173.D (-3348) (-)

Time-->





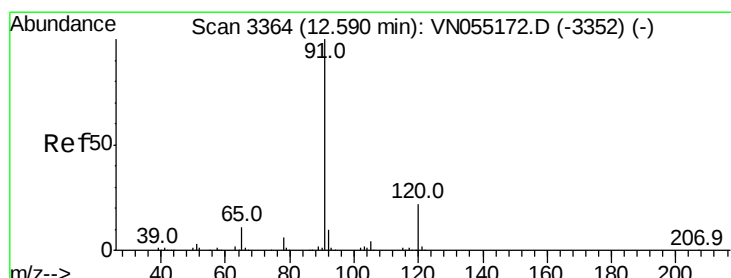
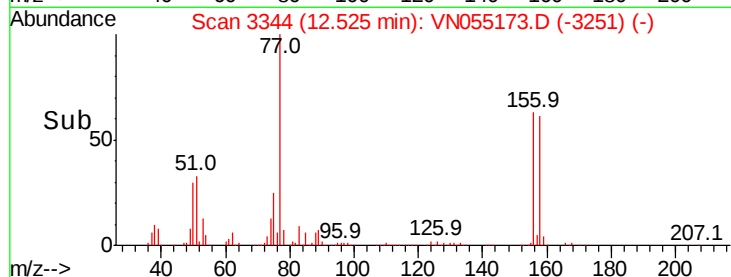
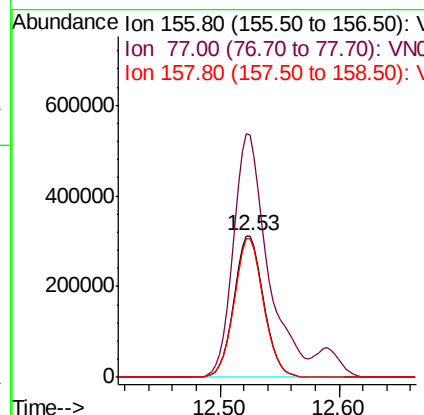
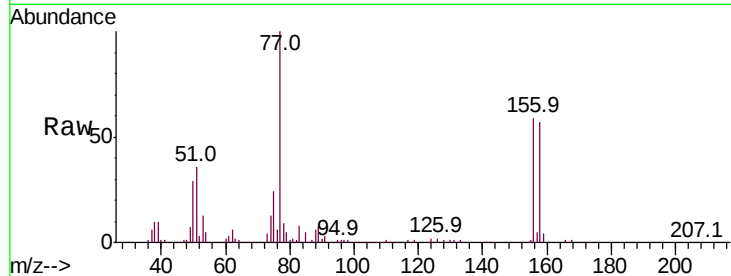
#77
Bromobenzene
Concen: 86.847 ug/l
RT: 12.53 min Scan# 3344
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
156	100		
77	199.1	98.0	293.9
158	97.1	48.9	146.8

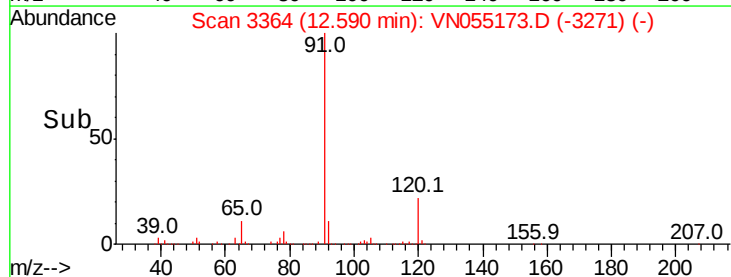
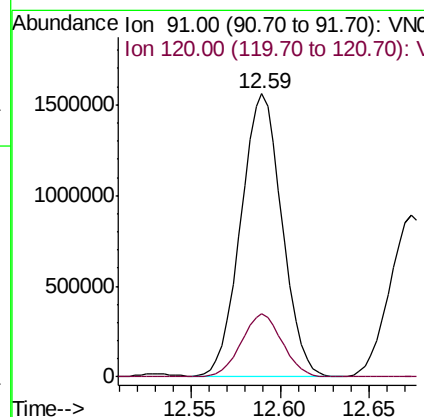
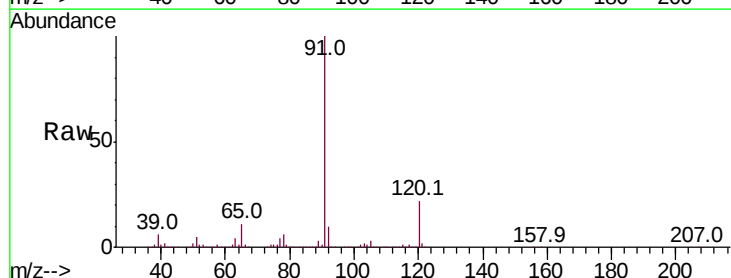
Manual Integrations
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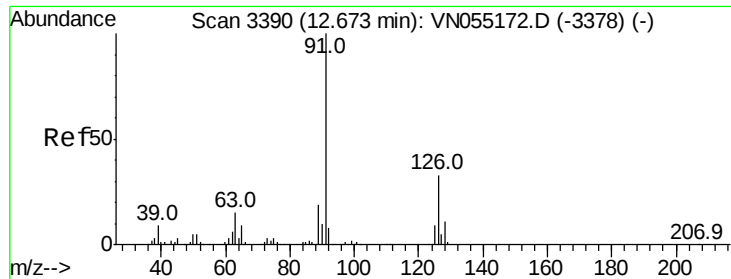
MMDadoda
4/23/2019 1:46:48 PM



#78
n-propylbenzene
Concen: 88.690 ug/l
RT: 12.59 min Scan# 3364
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.3	33.9





#79

2-Chlorotoluene

Concen: 84.207 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN055173.D

Acq: 22 Apr 2019 11:03

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 91 Resp: 1498740

Ion Ratio Lower Upper

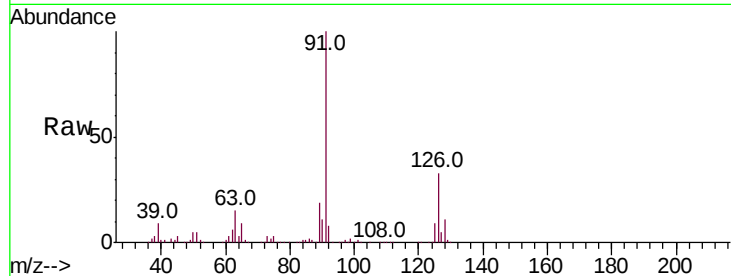
91 100

126 33.6 16.8 50.3

Manual Integrations
APPROVED

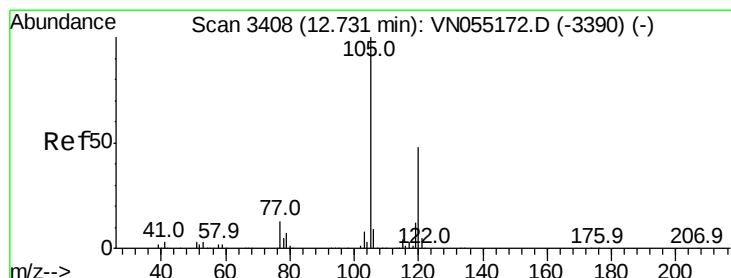
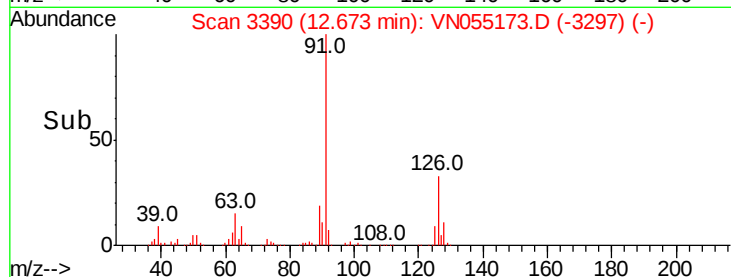
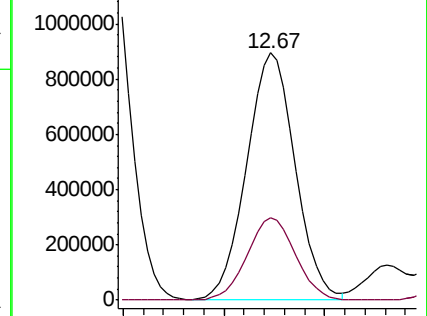
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Abundance Ion 91.00 (90.70 to 91.70): VN055173.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN055173.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: 86.738 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN055173.D

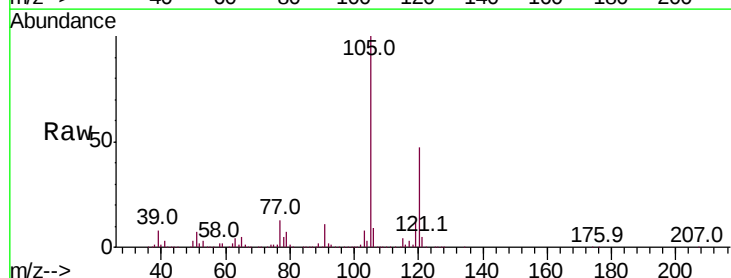
Acq: 22 Apr 2019 11:03

Tgt Ion: 105 Resp: 1824967

Ion Ratio Lower Upper

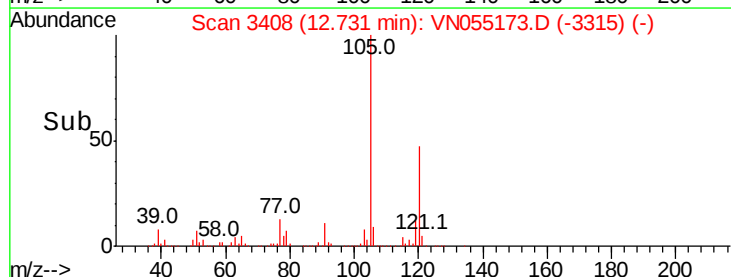
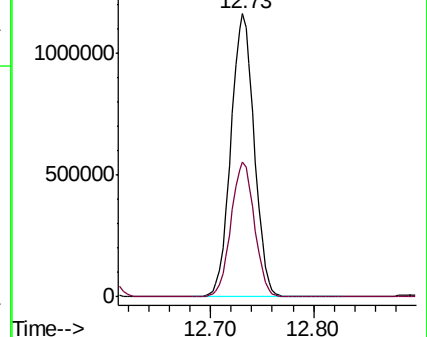
105 100

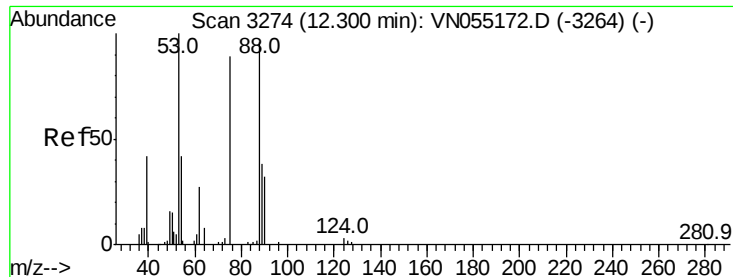
120 47.8 23.9 71.7



Abundance Ion 105.00 (104.70 to 105.70): VN055173.D (-3390) (-)

Ion 120.00 (119.70 to 120.70): VN055173.D (-3390) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 101.375 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN055173.D

Acq: 22 Apr 2019 11:03

Instrument :

MSVOA_N

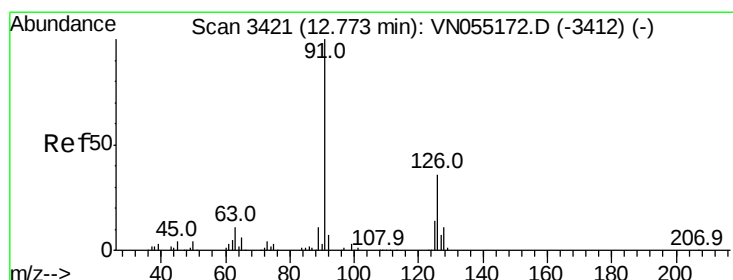
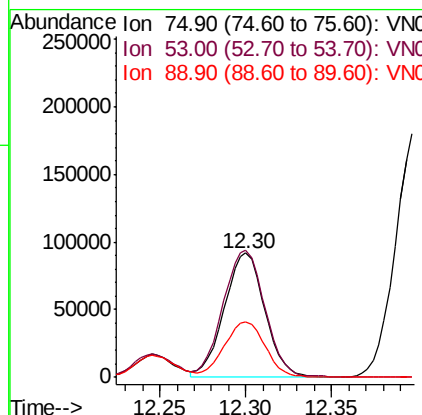
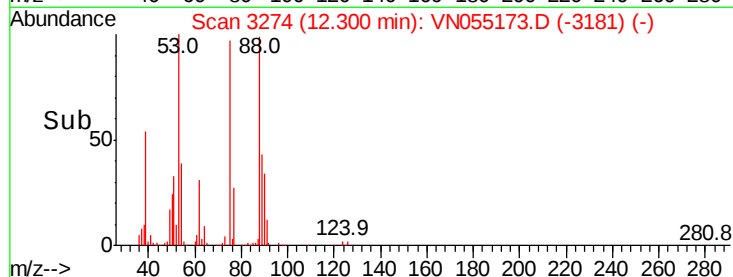
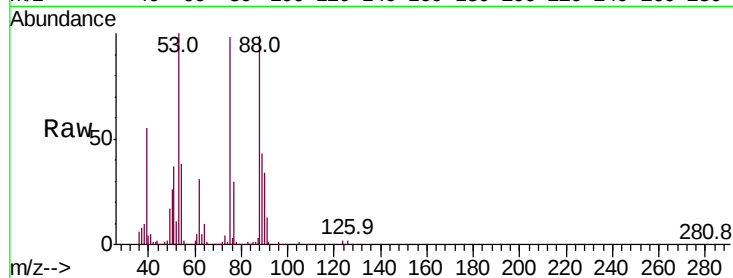
ClientSampleId :

VSTDIC100

Tot Ion:	75	Resp:	152482
Ion Ratio	Lower	Upper	
75	100		
53	105.1	90.1	135.1
89	44.8	36.7	55.1

Manual Integrations
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#82

4-Chlorotoluene

Concen: 90.839 ug/l

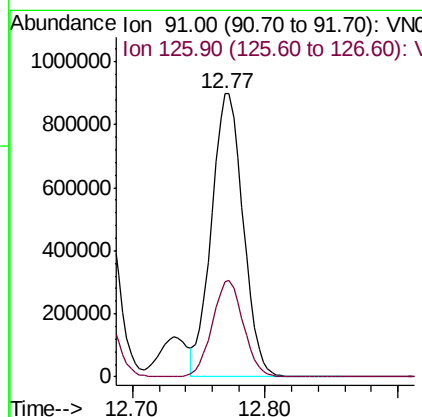
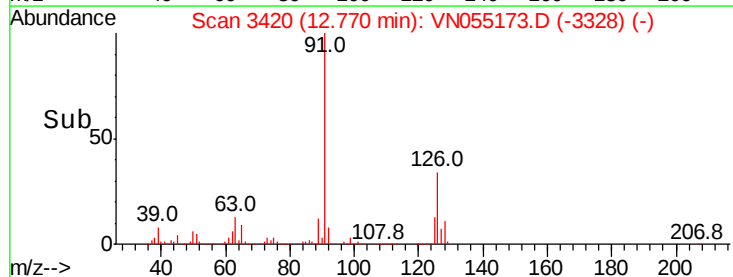
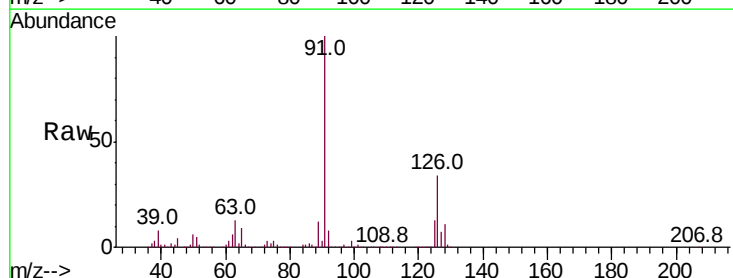
RT: 12.77 min Scan# 3420

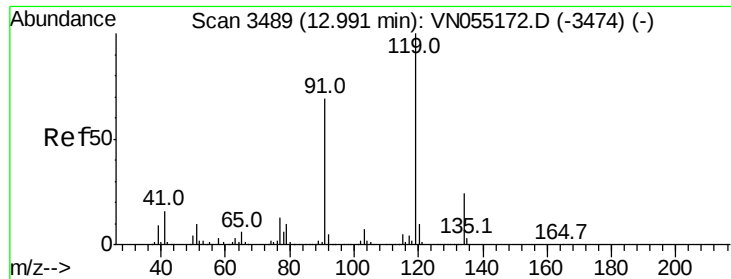
Delta R.T. -0.00 min

Lab File: VN055173.D

Acq: 22 Apr 2019 11:03

Tgt Ion:	91	Resp:	1487534
Ion Ratio	Lower	Upper	
91	100		
126	33.5	16.5	49.5





#83

tert-Butylbenzene

Concen: 81.641 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. -0.00 min

Lab File: VN055173.D

Acq: 22 Apr 2019 11:03

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion:119 Resp: 1536690

Ion Ratio Lower Upper

119 100

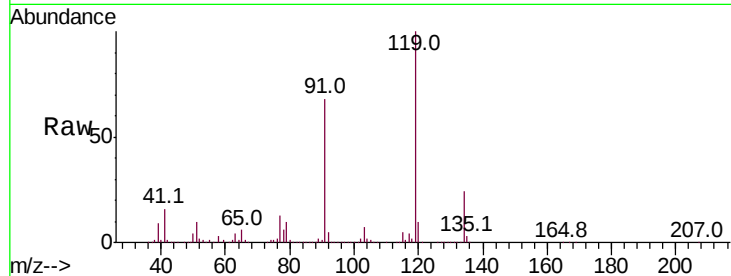
91 67.0 33.8 101.3

134 26.2 13.2 39.5

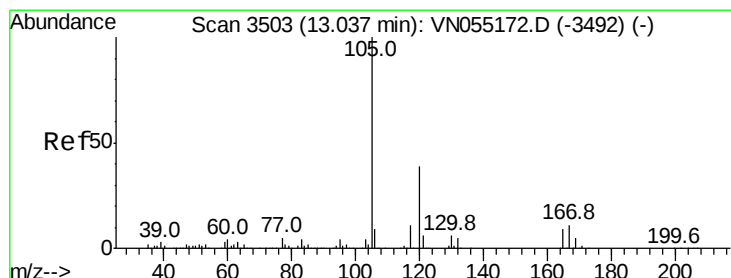
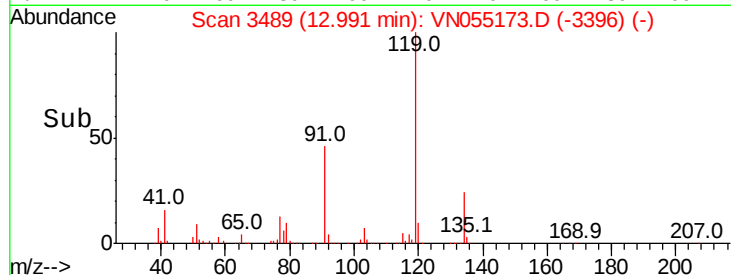
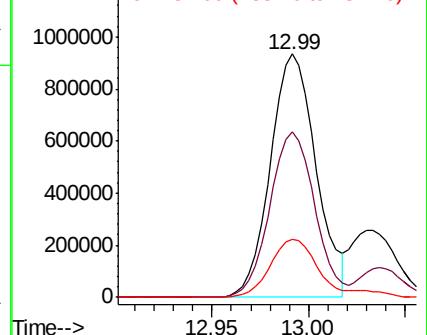
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Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 91.037 ug/l

RT: 13.04 min Scan# 3503

Delta R.T. -0.00 min

Lab File: VN055173.D

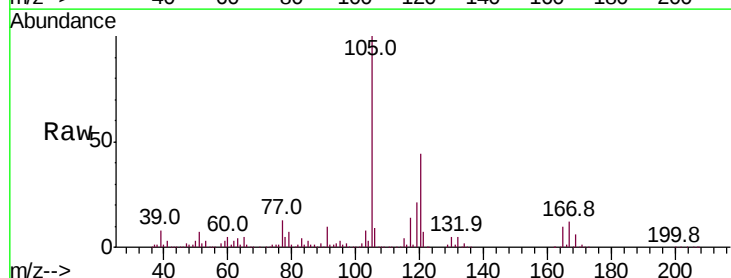
Acq: 22 Apr 2019 11:03

Tgt Ion:105 Resp: 1807554

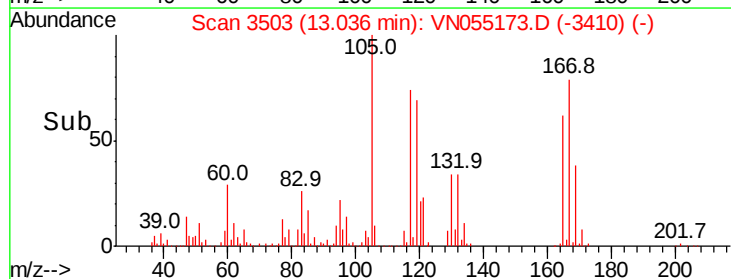
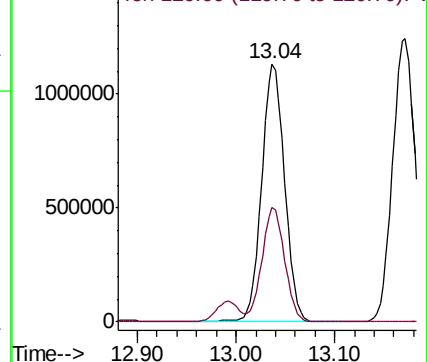
Ion Ratio Lower Upper

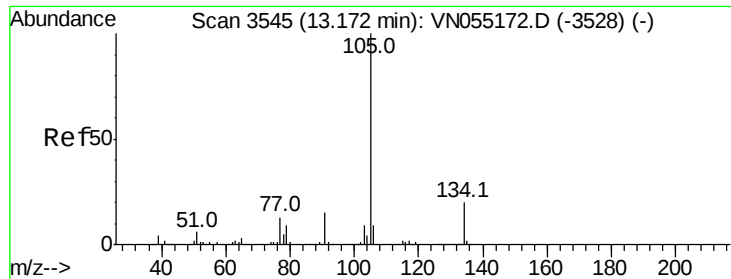
105 100

120 43.7 22.7 68.1



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





#85

sec-Butylbenzene

Concen: 83.764 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN055173.D

Acq: 22 Apr 2019 11:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:105 Resp: 1993829

Ion Ratio Lower Upper

105 100

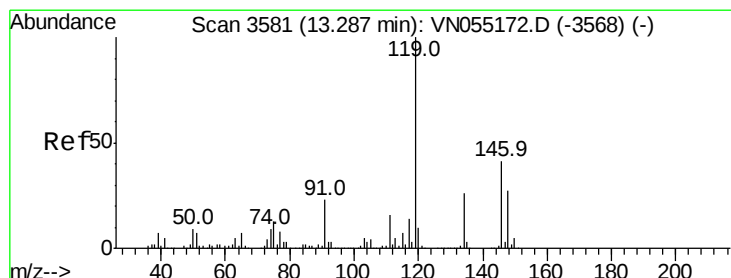
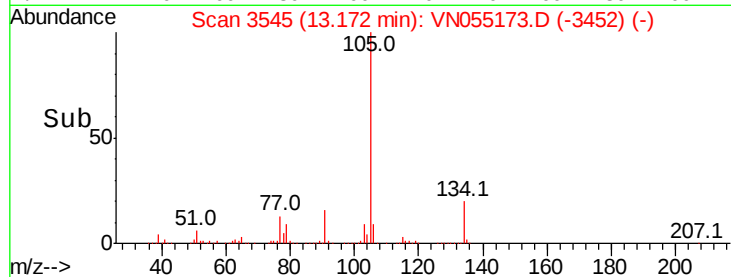
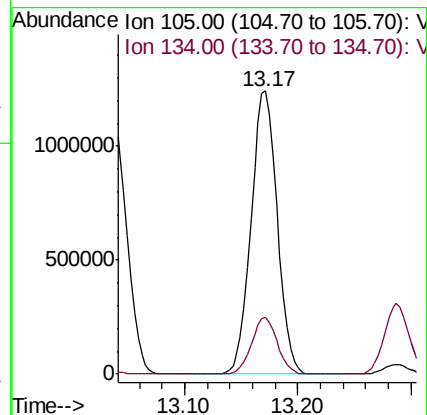
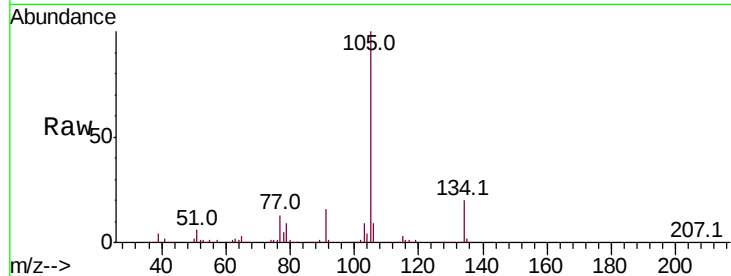
134 19.7 10.0 30.0

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 90.417 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN055173.D

Acq: 22 Apr 2019 11:03

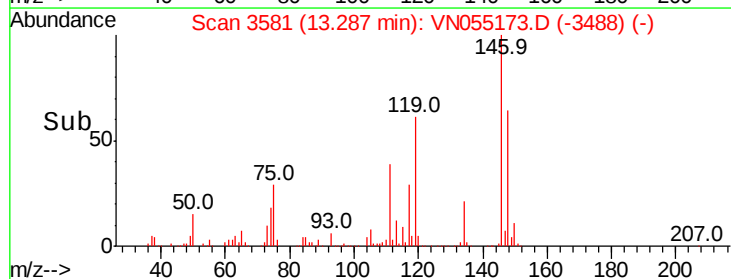
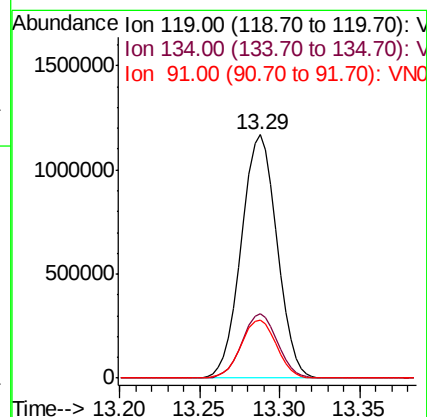
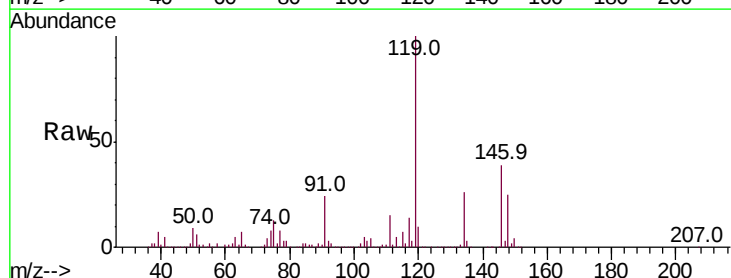
Tgt Ion:119 Resp: 1773110

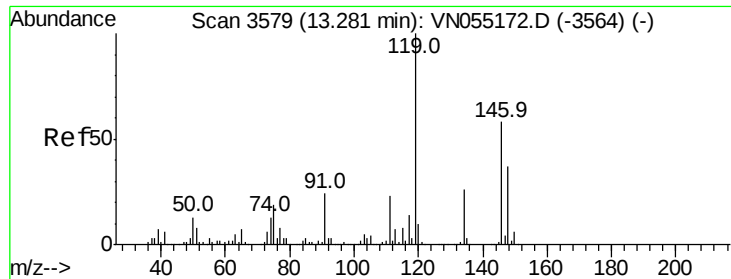
Ion Ratio Lower Upper

119 100

134 26.3 13.1 39.3

91 23.7 11.8 35.3





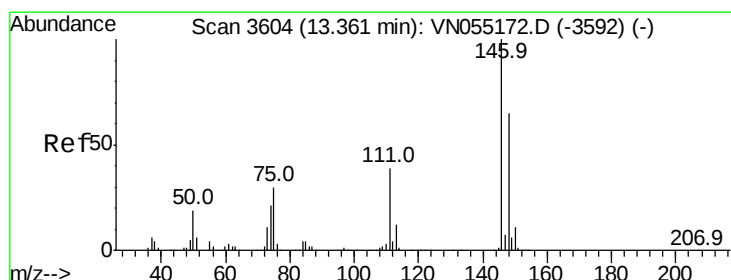
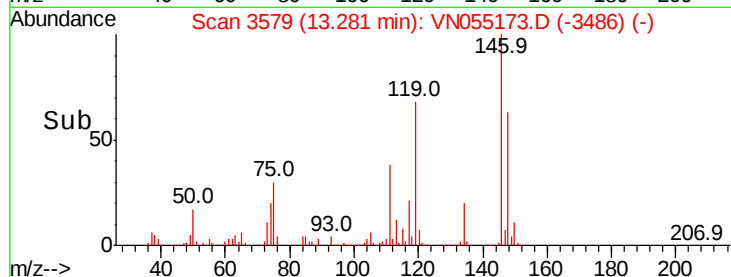
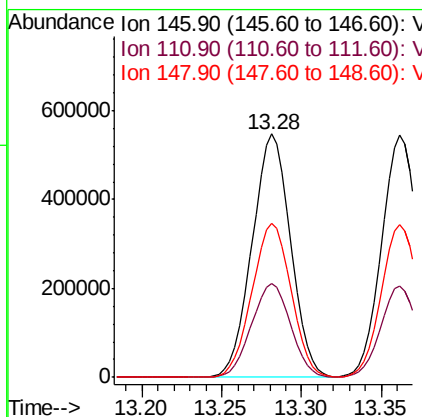
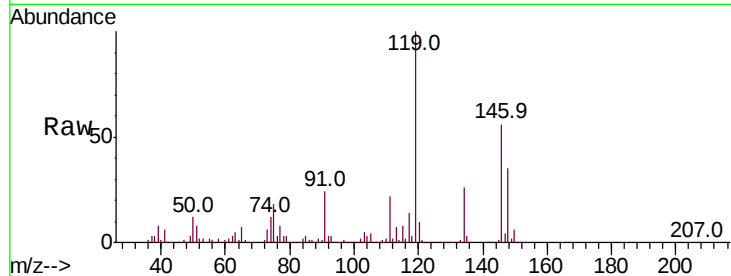
#87
 1,3-Dichlorobenzene
 Concen: 94.997 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN055173.D
 Acq: 22 Apr 2019 11:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
146	100	904838		
111	39.1	19.7	59.1	
148	64.4	32.0	96.0	

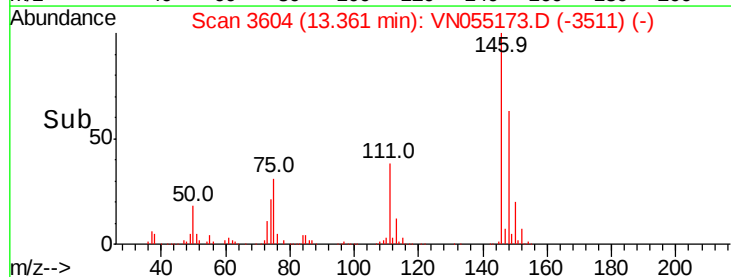
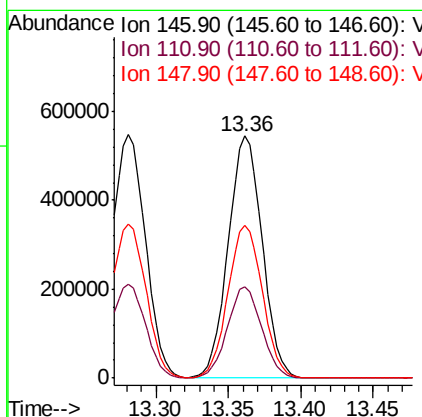
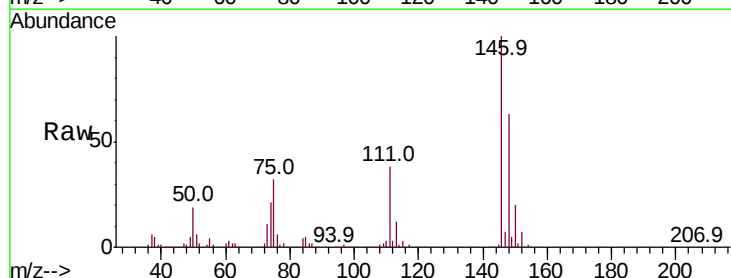
Manual Integrations
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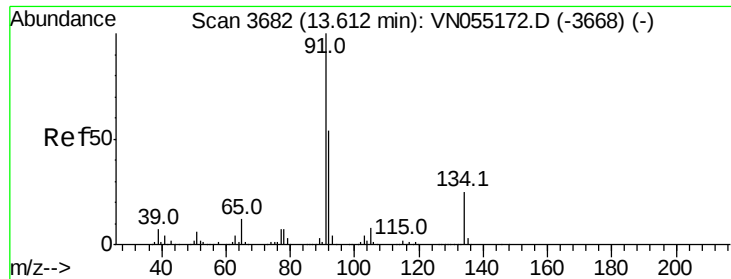
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#88
 1,4-Dichlorobenzene
 Concen: 95.527 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VN055173.D
 Acq: 22 Apr 2019 11:03

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	885891		
111	37.9	19.4	58.2	
148	63.9	32.9	98.6	





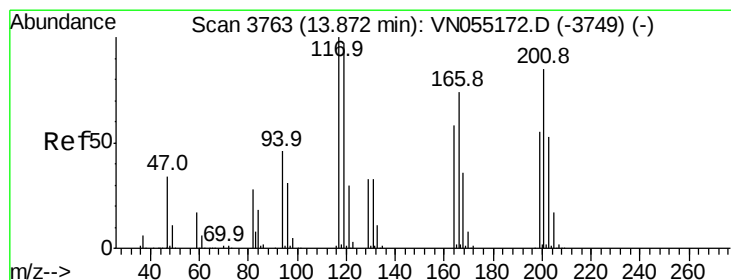
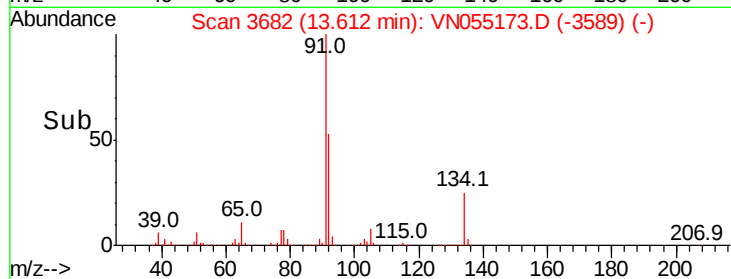
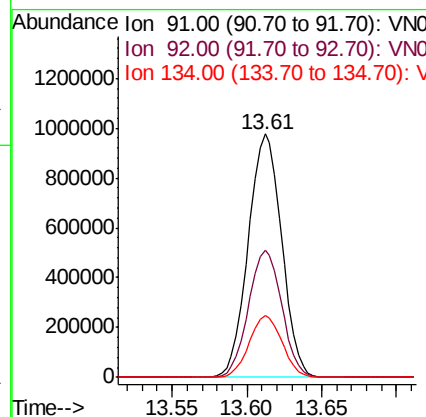
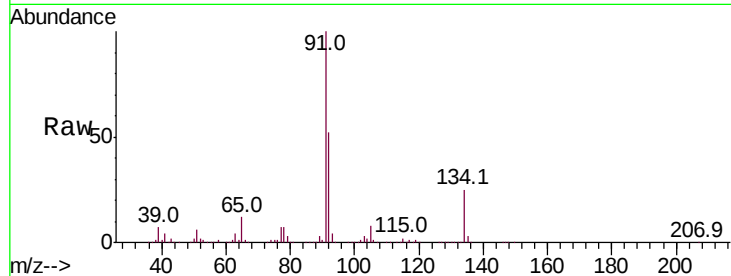
#89
n-Butylbenzene
Concen: 104.559 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.0	26.4	79.2
134	25.1	12.8	38.4

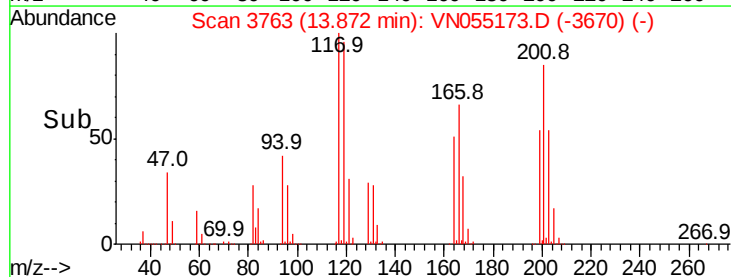
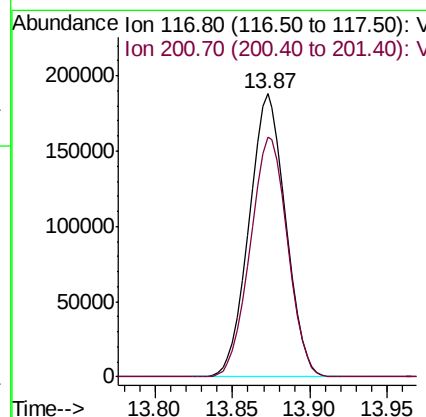
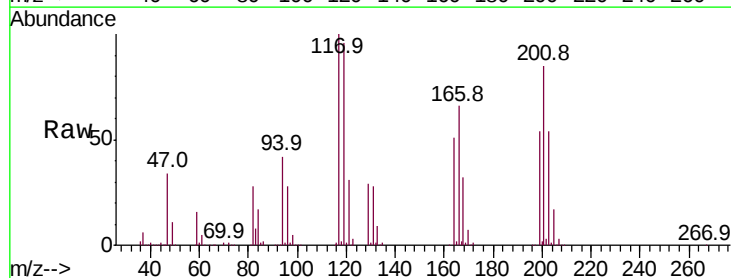
Manual Integrations
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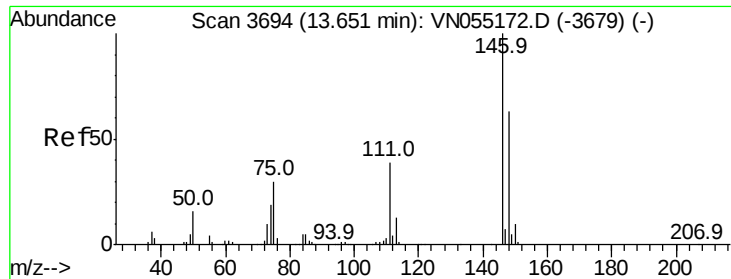
MMDadoda
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#90
Hexachloroethane
Concen: 89.214 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN055173.D
Acq: 22 Apr 2019 11:03

Tgt Ion	Ratio	Lower	Upper
117	100		
201	86.3	43.1	129.4





#91

1,2-Dichlorobenzene

Concen: 89.247 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. -0.00 min

Lab File: VN055173.D

Acq: 22 Apr 2019 11:03

Instrument :

MSVOA_N

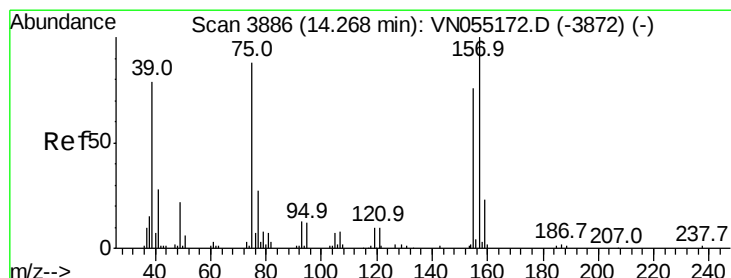
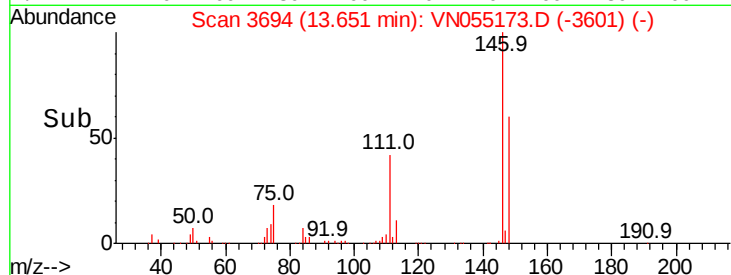
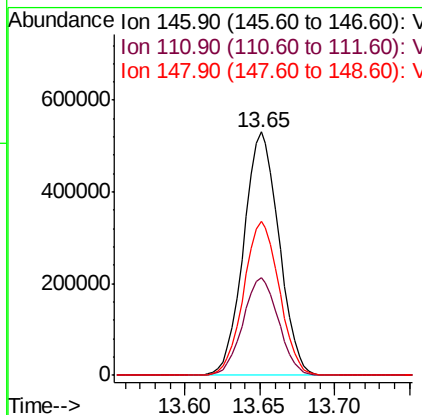
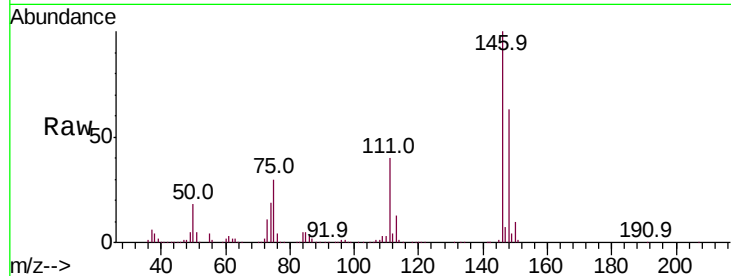
ClientSampleId :

VSTDIC100

Tot Ion:	146	Resp:	873122
Ion Ratio	Lower	Upper	
146	100		
111	40.2	19.8	59.3
148	63.7	31.7	95.1

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#92

1,2-Dibromo-3-Chloropropane

Concen: 98.056 ug/l

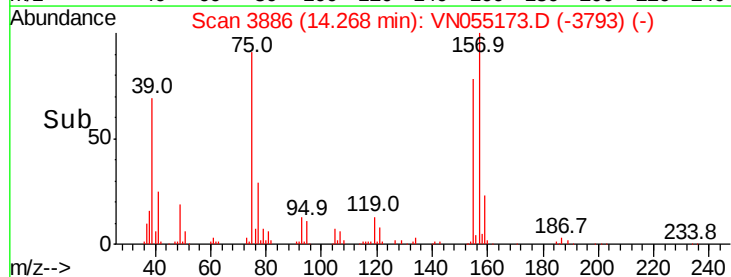
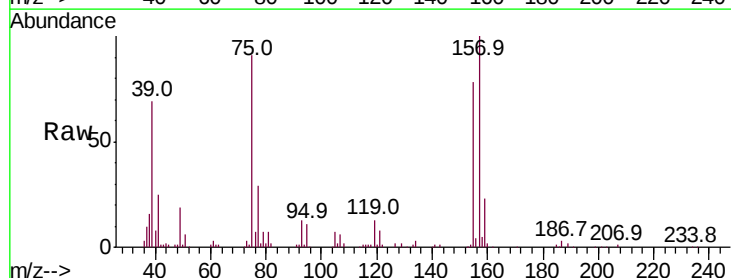
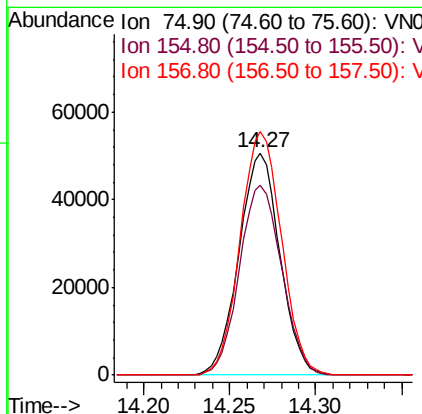
RT: 14.27 min Scan# 3886

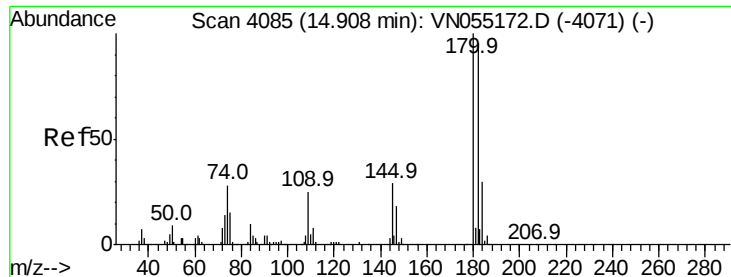
Delta R.T. -0.00 min

Lab File: VN055173.D

Acq: 22 Apr 2019 11:03

Tgt Ion:	75	Resp:	83687
Ion Ratio	Lower	Upper	
75	100		
155	88.1	43.0	129.0
157	110.5	55.7	167.1





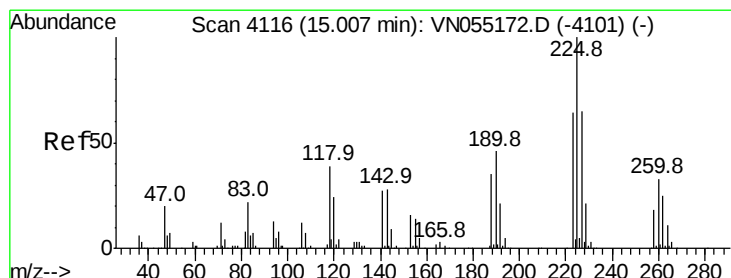
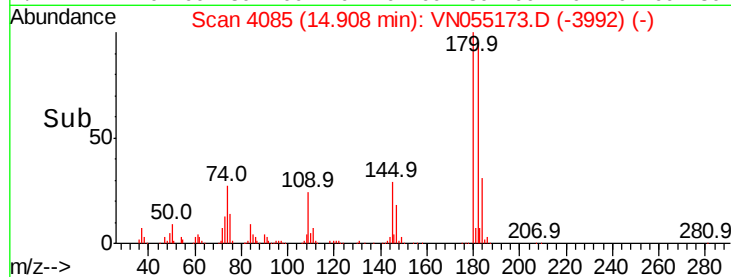
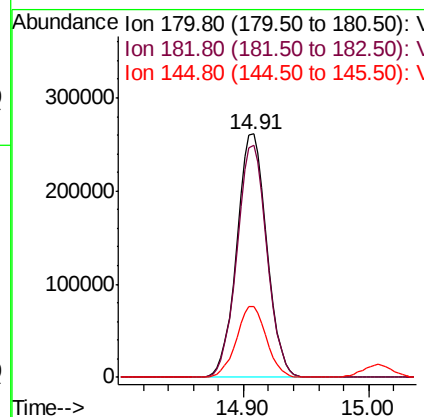
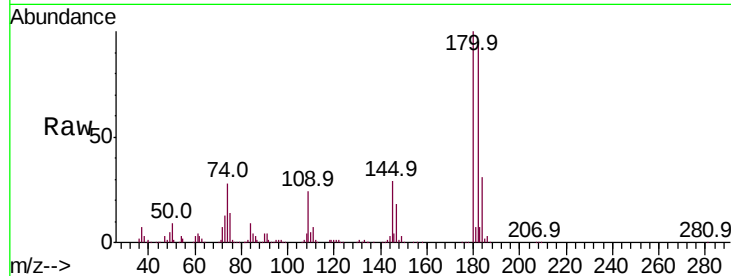
#93
 1,2,4-Trichlorobenzene
 Concen: 125.240 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN055173.D
 Acq: 22 Apr 2019 11:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.3	47.8	143.4	
145	29.2	14.5	43.5	

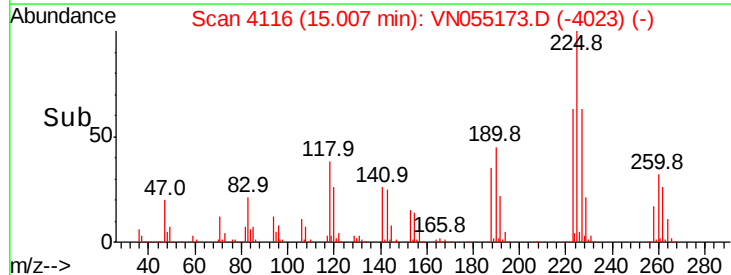
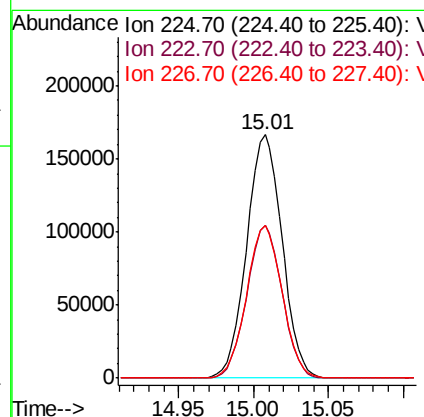
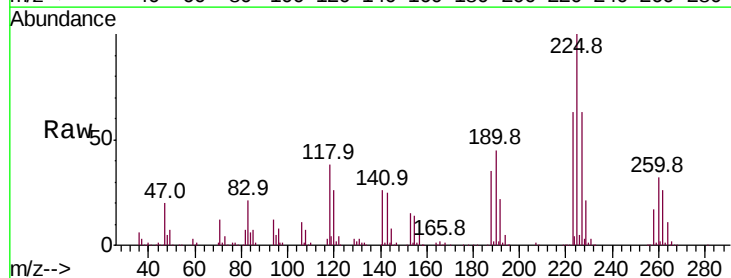
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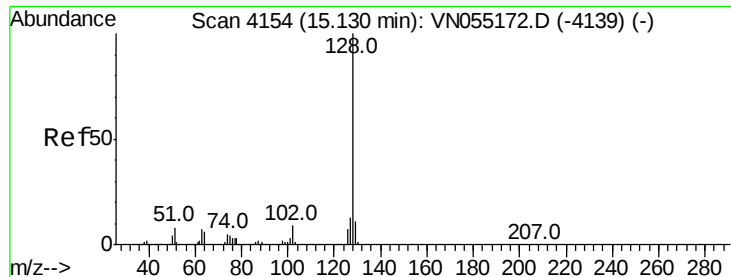
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#94
 Hexachlorobutadiene
 Concen: 78.511 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN055173.D
 Acq: 22 Apr 2019 11:03

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.4	32.2	96.6	
227	62.9	32.6	98.0	





#95

Naphthalene

Concen: 131.635 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN055173.D

Acq: 22 Apr 2019 11:03

Instrument :

MSVOA_N

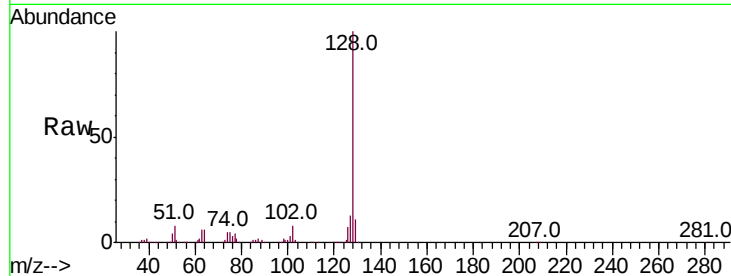
ClientSampleId :

VSTDIC100

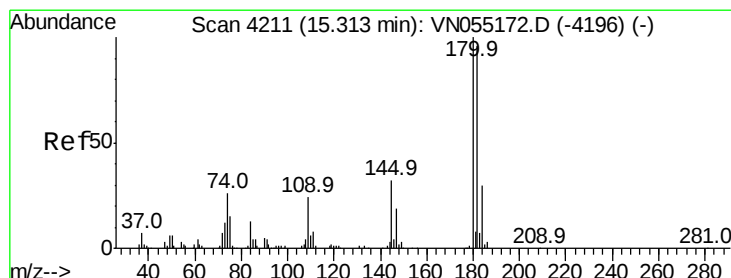
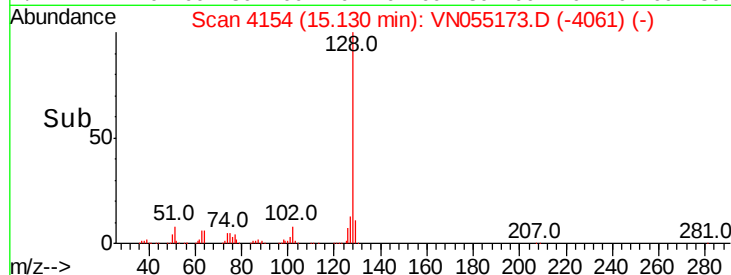
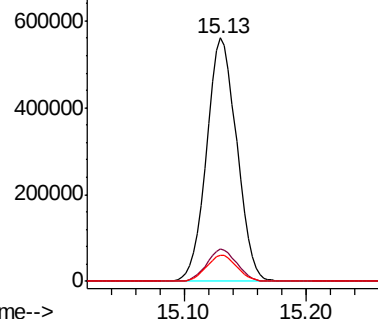
Tot Ion:	128	Resp:	960421
Ion Ratio	Lower	Upper	
128	100		
127	13.1	10.3	15.5
129	10.9	8.8	13.2

Manual Integrations
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Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 117.997 ug/l

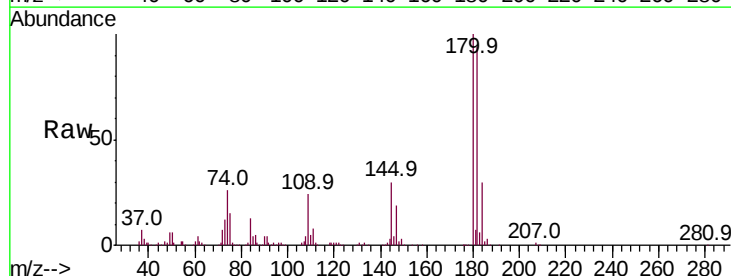
RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN055173.D

Acq: 22 Apr 2019 11:03

Tgt Ion:	180	Resp:	423984
Ion Ratio	Lower	Upper	
180	100		
182	94.5	47.2	141.6
145	30.8	15.4	46.1



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

