

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031319\
 Data File : VN054227.D
 Acq On : 13 Mar 2019 22:15
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 3/14/2019 10:28:12 AM

Quant Time: Mar 14 08:17:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1399710	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2137109	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1905685	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	945495	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	742914	49.98	ug/l	0.00
Spiked Amount			Recovery	=	99.96%	
35) Dibromofluoromethane	7.59	113	681573	49.45	ug/l	0.00
Spiked Amount			Recovery	=	98.90%	
50) Toluene-d8	10.09	98	2488570	48.89	ug/l	0.00
Spiked Amount			Recovery	=	97.78%	
62) 4-Bromofluorobenzene	12.40	95	886427	49.77	ug/l	0.00
Spiked Amount			Recovery	=	99.54%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	691802	52.150	ug/l	99
3) Chloromethane	2.06	50	603297	46.818	ug/l	100
4) Vinyl Chloride	2.19	62	723507	49.124	ug/l	99
5) Bromomethane	2.57	94	432177	42.368	ug/l	97
6) Chloroethane	2.71	64	428156	48.047	ug/l	99
7) Trichlorofluoromethane	3.02	101	957361	48.891	ug/l	100
8) Diethyl Ether	3.41	74	479255	53.708	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.75	101	781165	53.235	ug/l	100
10) Methyl Iodide	3.94	142	820879	39.709	ug/l	99
11) Tert butyl alcohol	4.81	59	232771	228.418	ug/l	97
12) 1,1-Dichloroethene	3.73	96	768773	52.868	ug/l	100
13) Acrolein	3.61	56	200631	207.769	ug/l	99
14) Allyl chloride	4.32	41	931211	49.912	ug/l	99
15) Acrylonitrile	4.99	53	1078957	257.755	ug/l	99
16) Acetone	3.82	43	840786	197.545	ug/l	98
17) Carbon Disulfide	4.04	76	1730813	47.481	ug/l	99
18) Methyl Acetate	4.33	43	477354	55.435	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	1883160	52.246	ug/l	99
20) Methylene Chloride	4.55	84	722040	51.665	ug/l	98
21) trans-1,2-Dichloroethene	5.04	96	716802	51.448	ug/l	98
22) Diisopropyl ether	5.96	45	1971645	52.949	ug/l	98
23) Vinyl Acetate	5.90	43	7179251	261.495	ug/l	99
24) 1,1-Dichloroethane	5.85	63	1243503	52.010	ug/l	99
25) 2-Butanone	6.85	43	1253596	250.948	ug/l	100
26) 2,2-Dichloropropane	6.82	77	929630	44.215	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	832600	53.566	ug/l	98
28) Bromochloromethane	7.19	49	509303	52.107	ug/l	99
29) Tetrahydrofuran	7.22	42	820679	255.513	ug/l	100
30) Chloroform	7.37	83	1325437	53.126	ug/l	99
31) Cyclohexane	7.65	56	1124235	50.303	ug/l	100
32) 1,1,1-Trichloroethane	7.57	97	1169503	51.904	ug/l	100
36) 1,1-Dichloropropene	7.79	75	997278	50.672	ug/l	99
37) Ethyl Acetate	6.94	43	561229	49.629	ug/l	99
38) Carbon Tetrachloride	7.77	117	1021632	49.500	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	1208716	49.916	ug/l	99
40) Benzene	8.04	78	2922663	51.895	ug/l	99
41) Methacrylonitrile	7.17	41	342259	53.008	ug/l	96
42) 1,2-Dichloroethane	8.13	62	979469	51.513	ug/l	100
43) Isopropyl Acetate	8.17	43	988008	49.775	ug/l	98
44) Trichloroethene	8.84	130	905441	51.753	ug/l	98
45) 1,2-Dichloropropane	9.12	63	733545	52.454	ug/l	100
46) Dibromomethane	9.21	93	490189	51.878	ug/l	99
47) Bromodichloromethane	9.40	83	985404	52.021	ug/l	99
48) Methyl methacrylate	9.20	41	508728	50.503	ug/l	95
49) 1,4-Dioxane	9.20	88	145637	1022.122	ug/l	99
51) 4-Methyl-2-Pentanone	9.99	43	2766724	263.386	ug/l	100
52) Toluene	10.16	92	1868734	52.331	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	969565	44.960	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	1127242	51.067	ug/l	100
55) 1,1,2-Trichloroethane	10.56	97	683735	52.437	ug/l	99
56) Ethyl methacrylate	10.43	69	832032	53.516	ug/l	98
57) 1,3-Dichloropropane	10.71	76	1114609	52.278	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	1549388	231.070	ug/l	100
59) 2-Hexanone	10.75	43	1740778	249.052	ug/l	99
60) Dibromochloromethane	10.90	129	764301	52.077	ug/l	99
61) 1,2-Dibromoethane	11.01	107	698087	52.684	ug/l	99
64) Tetrachloroethene	10.63	164	900485	48.873	ug/l	98
65) Chlorobenzene	11.44	112	2170823	51.879	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	787815	51.828	ug/l	99
67) Ethyl Benzene	11.51	91	3549977	51.180	ug/l	100
68) m/p-Xylenes	11.62	106	2811168	103.694	ug/l	100
69) o-Xylene	11.95	106	1375868	52.061	ug/l	99
70) Styrene	11.96	104	2194836	52.954	ug/l	99
71) Bromoform	12.13	173	513331	44.569	ug/l #	100
73) Isopropylbenzene	12.25	105	3654189	48.307	ug/l	100
74) N-amyl acetate	12.07	43	827646	49.292	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	790257	49.033	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	656592m	47.223	ug/l	
77) Bromobenzene	12.53	156	990027	49.459	ug/l	98
78) n-propylbenzene	12.59	91	4027028	49.062	ug/l	100
79) 2-Chlorotoluene	12.67	91	2392847	48.485	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	3048154	48.444	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	170425	41.901	ug/l	95
82) 4-Chlorotoluene	12.77	91	2431929	49.349	ug/l	99
83) tert-Butylbenzene	12.99	119	2782669	48.047	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	3070012	49.734	ug/l	100
85) sec-Butylbenzene	13.17	105	3638256	48.440	ug/l	99
86) p-Isopropyltoluene	13.29	119	3232319	49.055	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	1728631	51.250	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	1686131	50.888	ug/l	99
89) n-Butylbenzene	13.62	91	2580919	51.551	ug/l	100
90) Hexachloroethane	13.87	117	512036	46.930	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	1692717	51.336	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	121316	48.644	ug/l	98

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VSTDCCC050

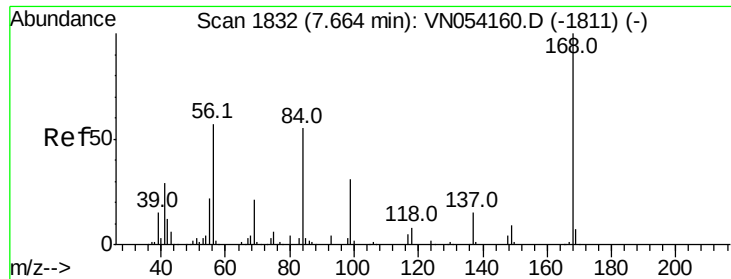
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	971279	48.852	ug/l	99
94) Hexachlorobutadiene	15.01	225	575317	45.807	ug/l	99
95) Naphthalene	15.13	128	1940841	47.024	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	959027	54.741	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 1399710

Ion Ratio Lower Upper

168 100

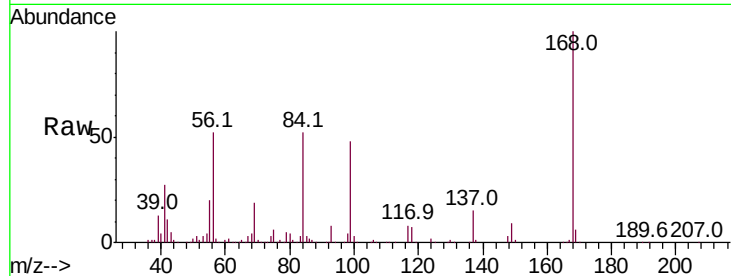
99 47.8 37.1 55.7

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

600000

500000

400000

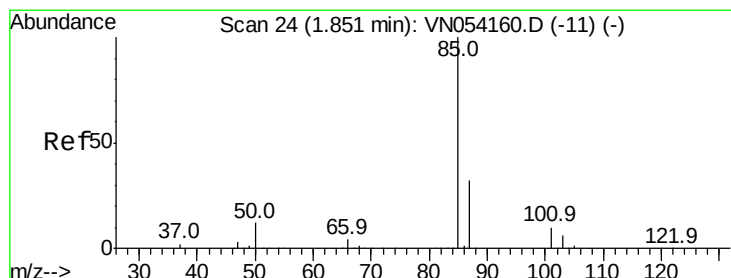
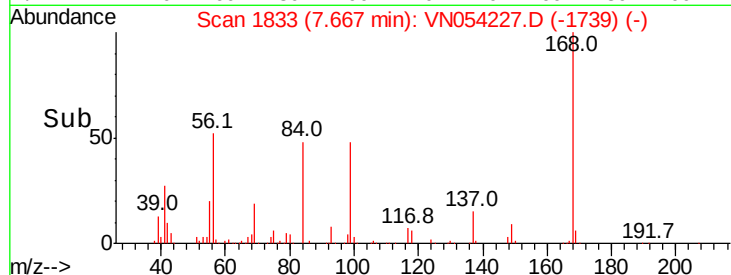
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80



#2

Dichlorodifluoromethane

Concen: 52.150 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN054227.D

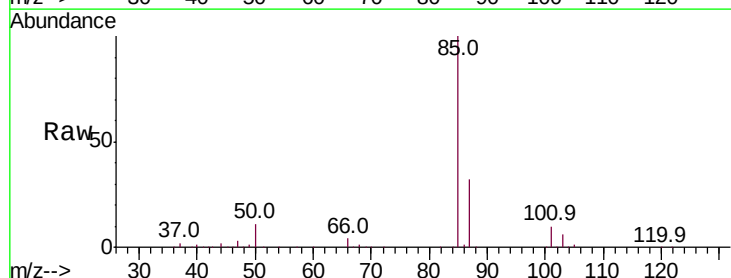
Acq: 13 Mar 2019 22:15

Tgt Ion: 85 Resp: 691802

Ion Ratio Lower Upper

85 100

87 32.5 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

500000

400000

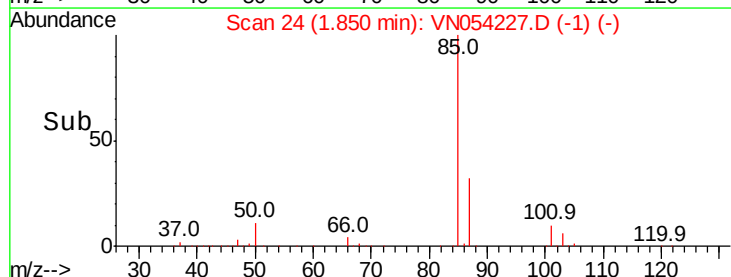
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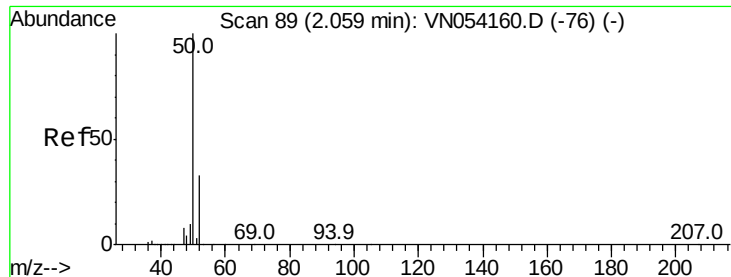
200000

100000

0

Time--> 1.80 1.90 2.00





#3

Chloromethane

Concen: 46.818 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 603297

Ion Ratio Lower Upper

50 100

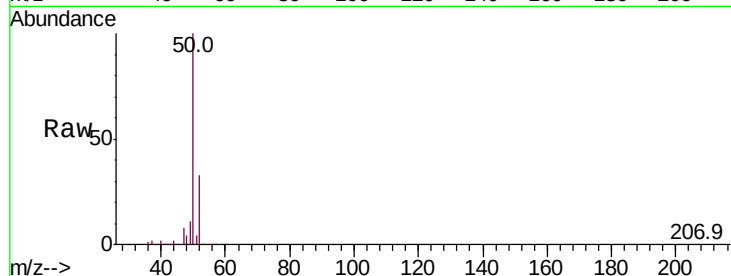
52 33.1 26.4 39.6

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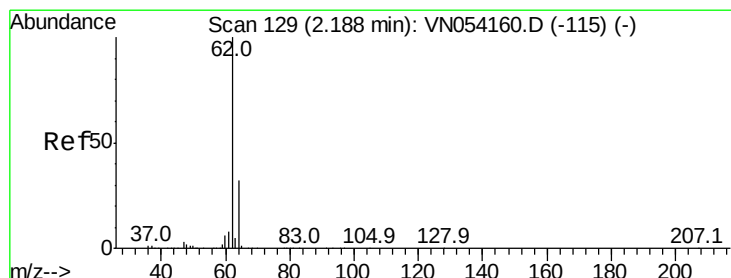
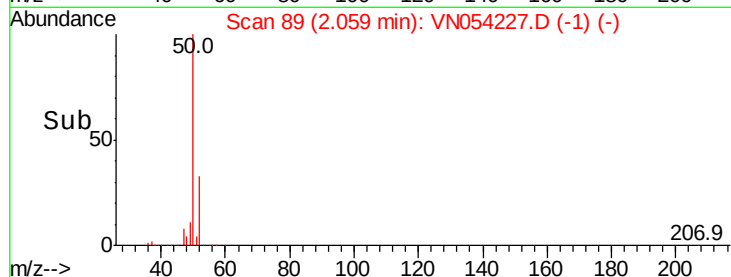
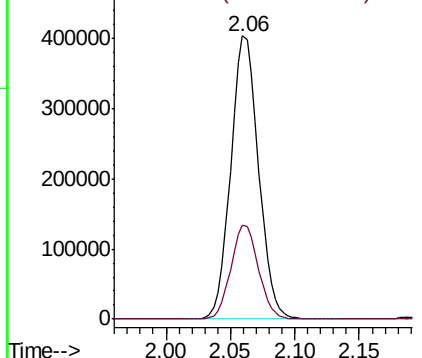
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Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



#4

Vinyl Chloride

Concen: 49.124 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN054227.D

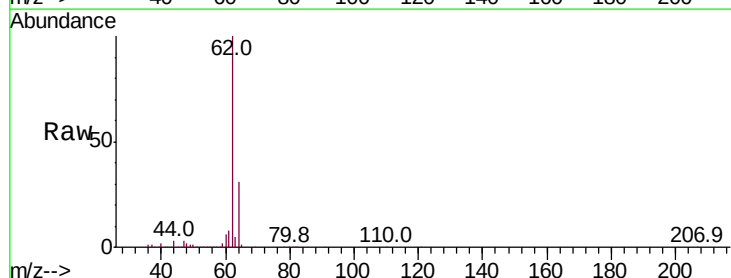
Acq: 13 Mar 2019 22:15

Tgt Ion: 62 Resp: 723507

Ion Ratio Lower Upper

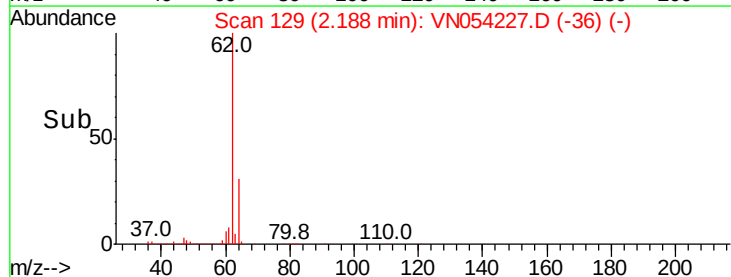
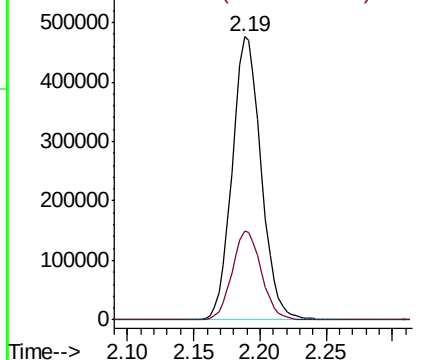
62 100

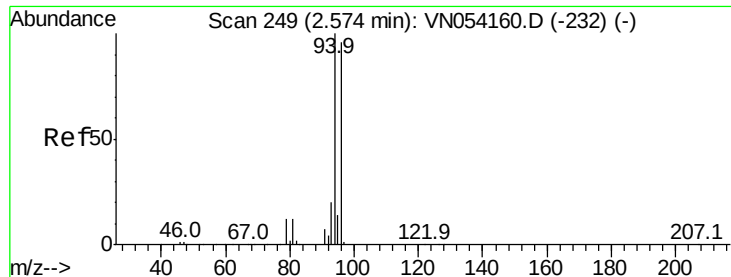
64 31.3 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC





#5

Bromomethane

Concen: 42.368 ug/l

RT: 2.57 min Scan# 249

Delta R.T. -0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 432177

Ion Ratio Lower Upper

94 100

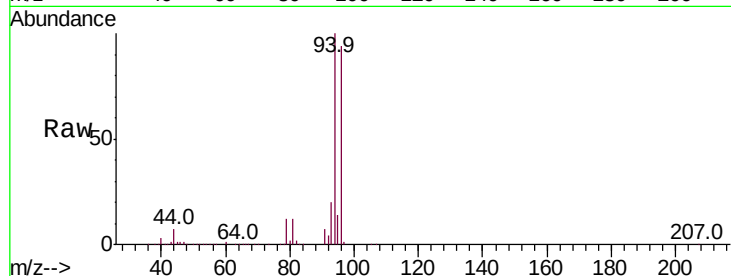
96 93.5 77.0 115.4

Manual Integrations

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3/14/2019 10:28:12 AM



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

250000

200000

150000

100000

50000

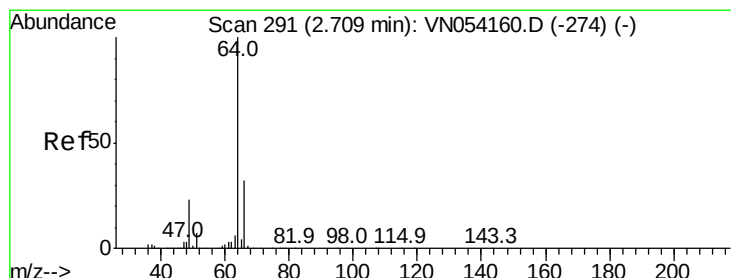
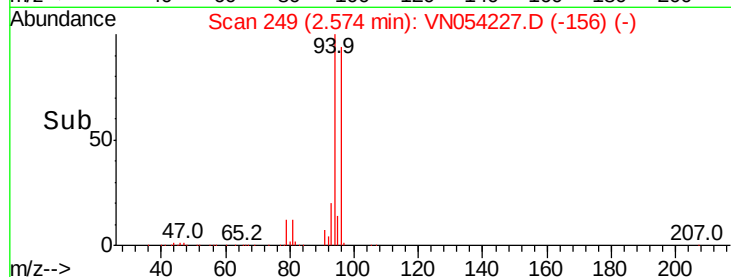
0

2.50

2.60

2.70

Time-->



#6

Chloroethane

Concen: 48.047 ug/l

RT: 2.71 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN054227.D

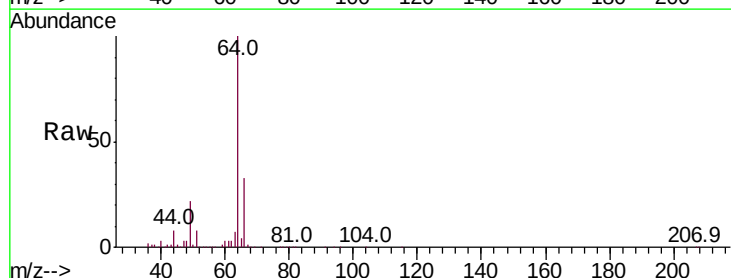
Acq: 13 Mar 2019 22:15

Tgt Ion: 64 Resp: 428156

Ion Ratio Lower Upper

64 100

66 32.7 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO

250000

200000

150000

100000

50000

0

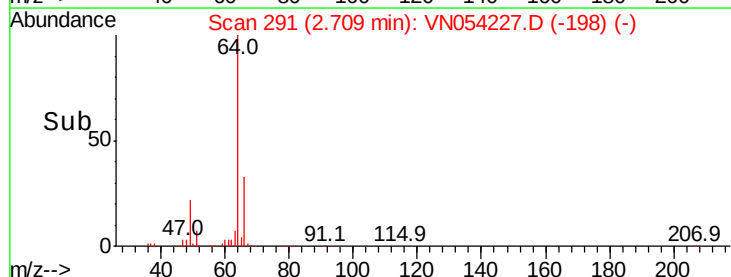
2.60

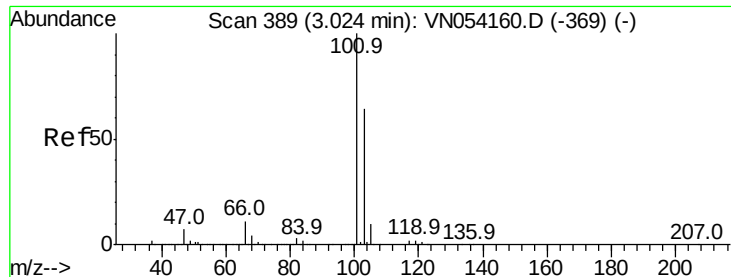
2.70

2.80

2.90

Time-->





#7

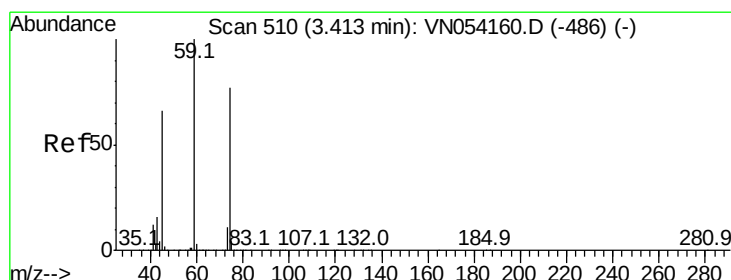
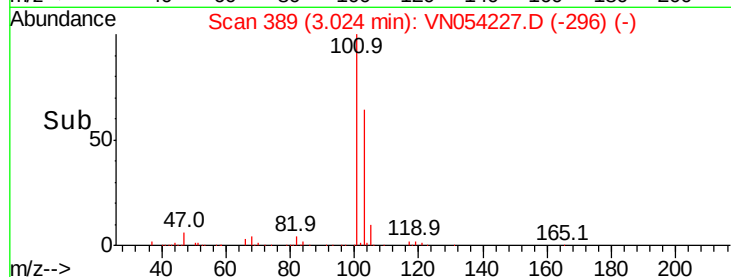
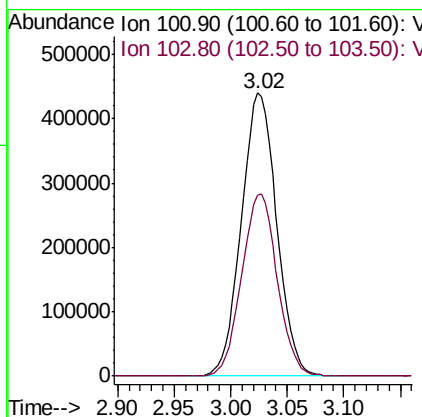
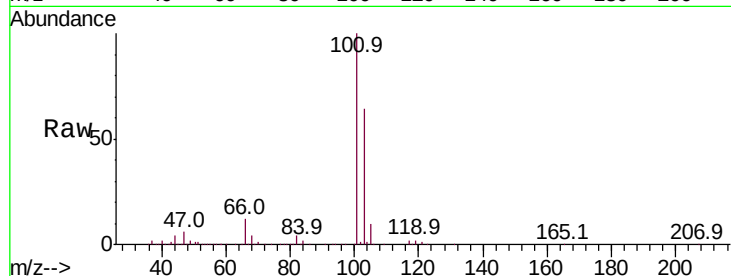
Trichlorofluoromethane
 Concen: 48.891 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. -0.00 min
 Lab File: VN054227.D
 Acq: 13 Mar 2019 22:15

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 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.9	51.4	77.2

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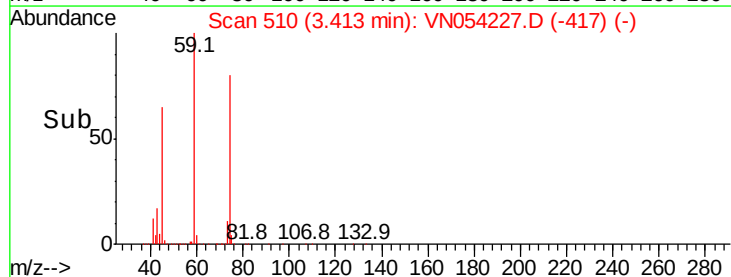
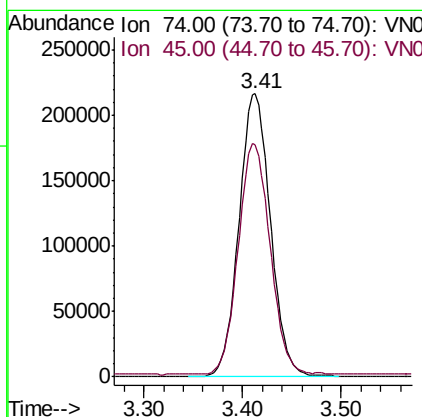
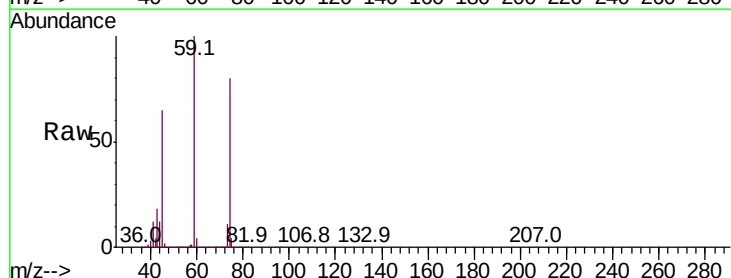
MMDadoda
 3/14/2019 10:28:12 AM

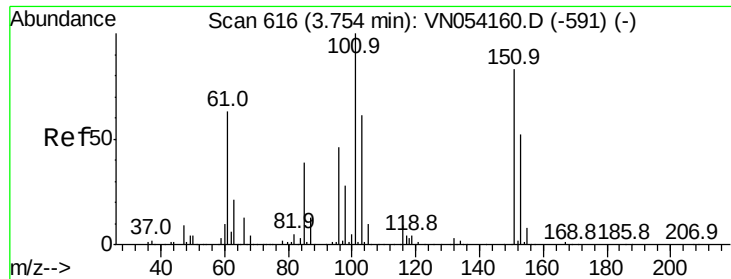


#8

Diethyl Ether
 Concen: 53.708 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. -0.00 min
 Lab File: VN054227.D
 Acq: 13 Mar 2019 22:15

Tgt Ion	Ratio	Lower	Upper
74	100		
45	82.5	43.1	129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 53.235 ug/l

RT: 3.75 min Scan# 616

Delta R.T. -0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

Instrument :

MSVOA_N

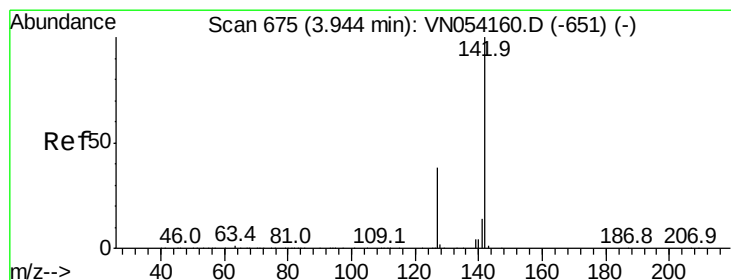
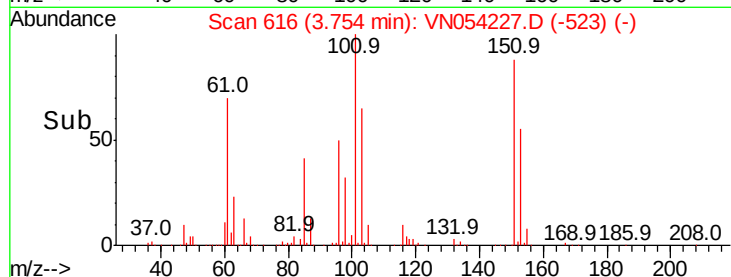
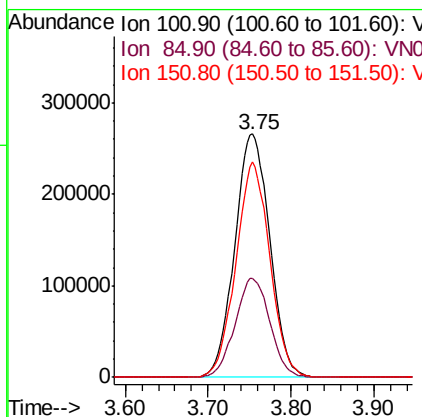
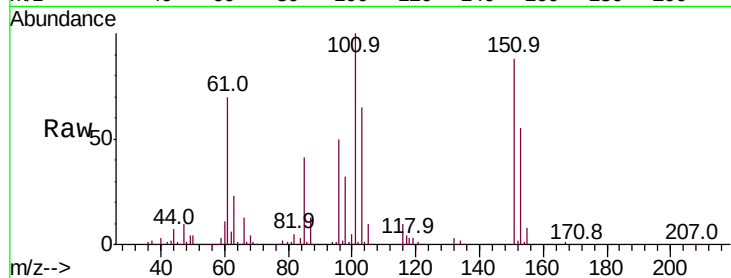
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	781165
Ion Ratio	Lower	Upper	
101	100		
85	40.4	32.4	48.6
151	85.6	68.2	102.2

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#10

Methyl Iodide

Concen: 39.709 ug/l

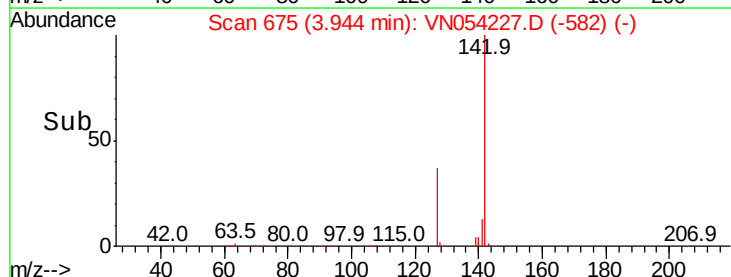
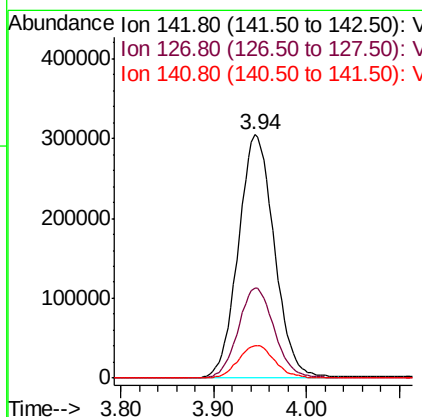
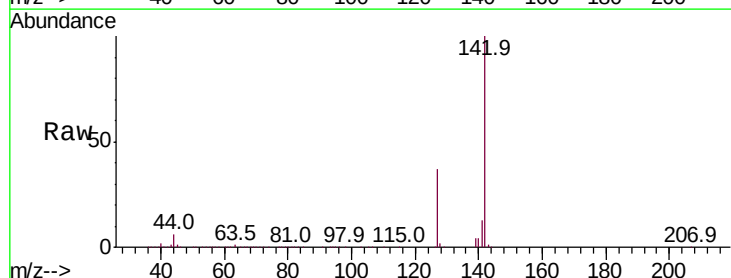
RT: 3.94 min Scan# 675

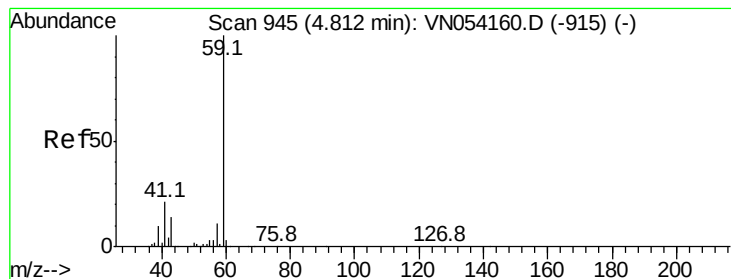
Delta R.T. -0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

Tgt Ion:	142	Resp:	820879
Ion Ratio	Lower	Upper	
142	100		
127	37.3	30.3	45.5
141	13.7	11.2	16.8





#11

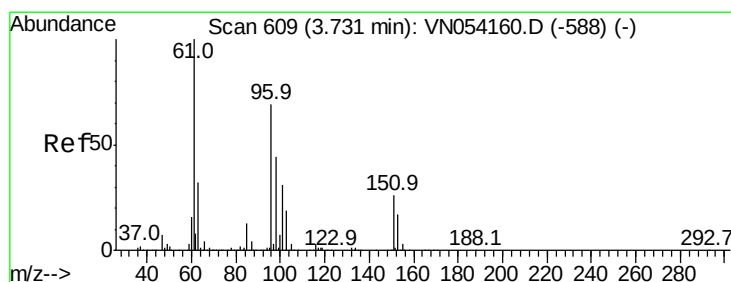
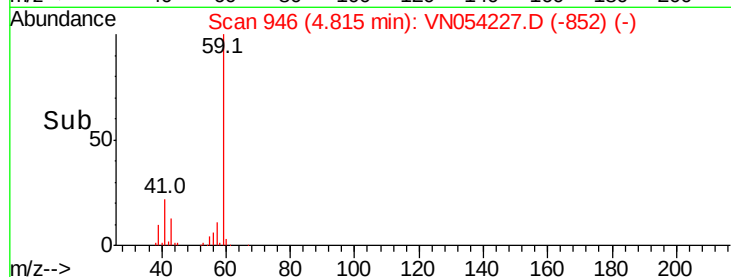
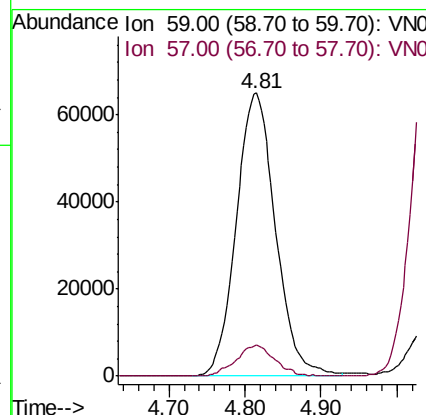
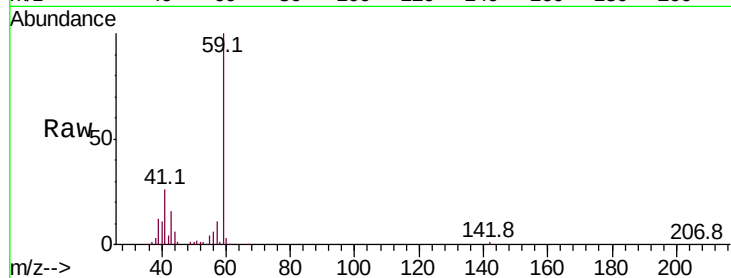
Tert butyl alcohol
Concen: 228.418 ug/l
RT: 4.81 min Scan# 946
Delta R.T. 0.00 min
Lab File: VN054227.D
Acq: 13 Mar 2019 22:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	59	Resp	232771
Ion	Ratio	Lower	Upper
59	100		
57	10.1	9.0	13.6

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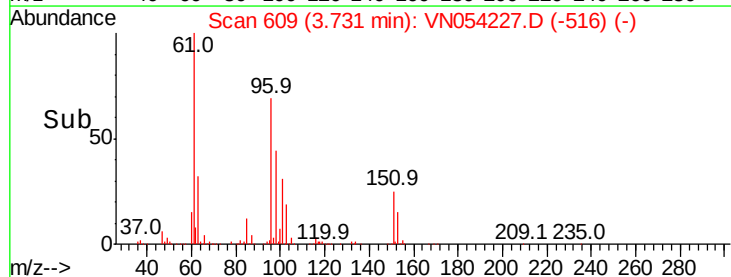
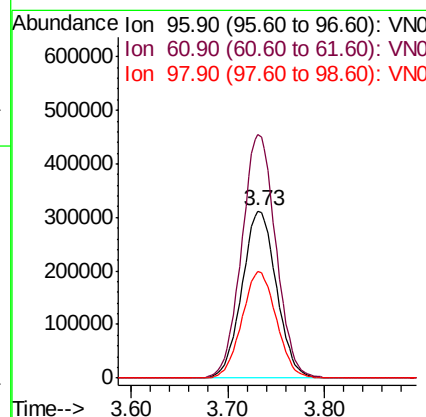
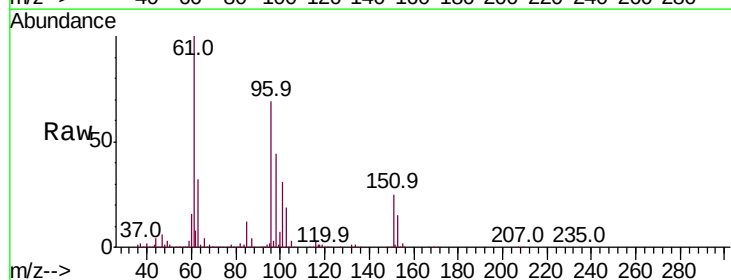
MMDadoda
3/14/2019 10:28:12 AM

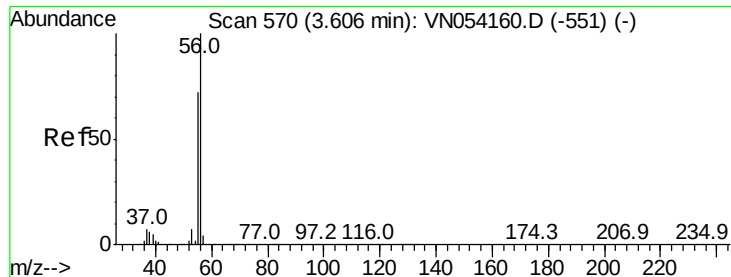


#12

1,1-Dichloroethene
Concen: 52.868 ug/l
RT: 3.73 min Scan# 609
Delta R.T. -0.00 min
Lab File: VN054227.D
Acq: 13 Mar 2019 22:15

Tgt Ion	96	Resp	768773
Ion	Ratio	Lower	Upper
96	100		
61	145.8	116.5	174.7
98	63.7	51.0	76.4





#13

Acrolein

Concen: 207.769 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 200631

Ion Ratio Lower Upper

56 100

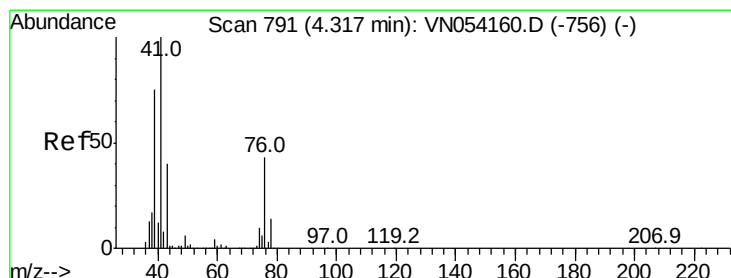
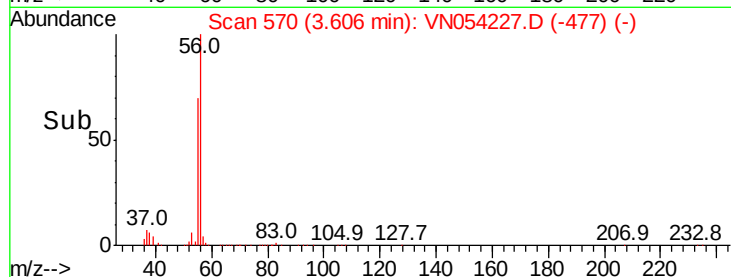
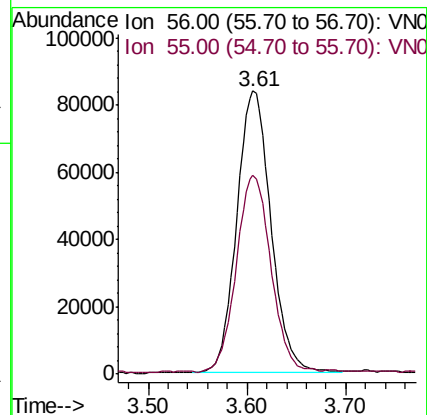
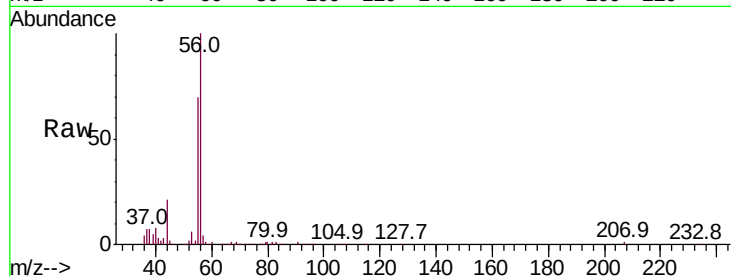
55 71.3 56.7 85.1

Manual Integrations

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#14

Allyl chloride

Concen: 49.912 ug/l

RT: 4.32 min Scan# 791

Delta R.T. -0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

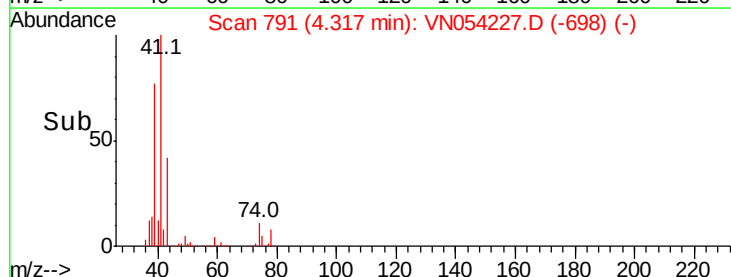
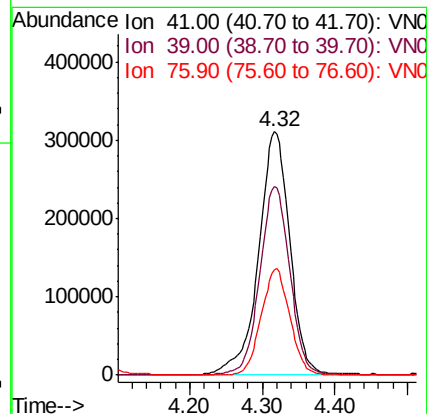
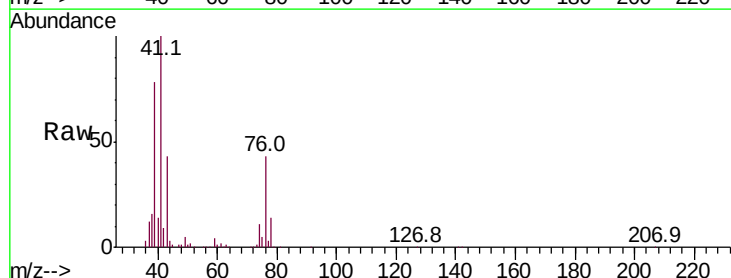
Tgt Ion: 41 Resp: 931211

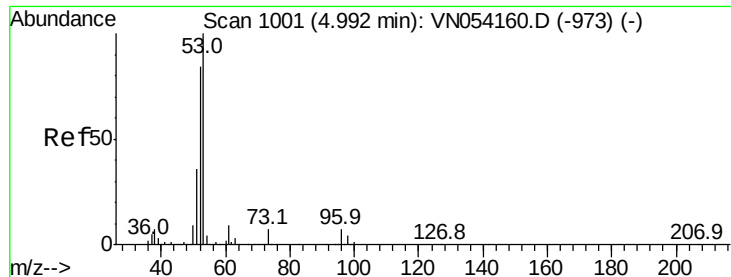
Ion Ratio Lower Upper

41 100

39 74.5 58.2 87.4

76 39.8 31.7 47.5





#15

Acrylonitrile

Concen: 257.755 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 53 Resp: 1078957

Ion Ratio Lower Upper

53 100

52 83.7 66.4 99.6

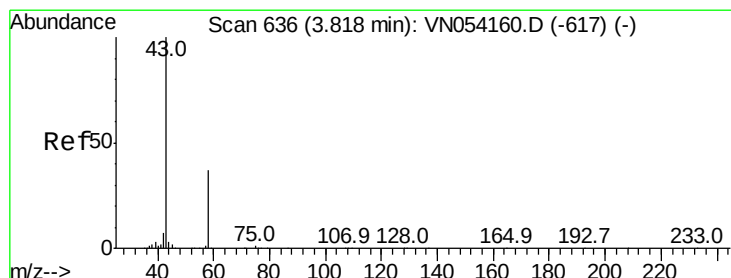
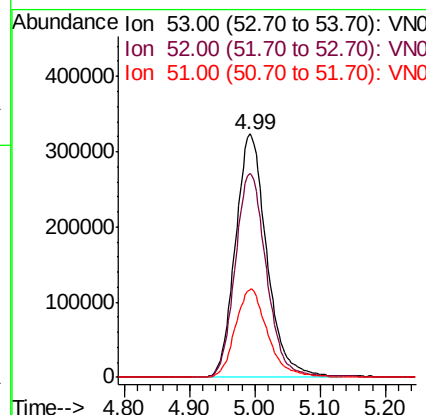
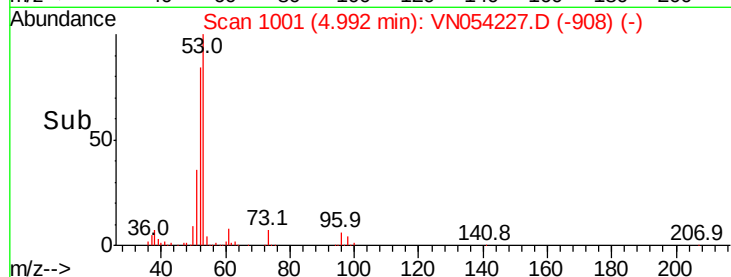
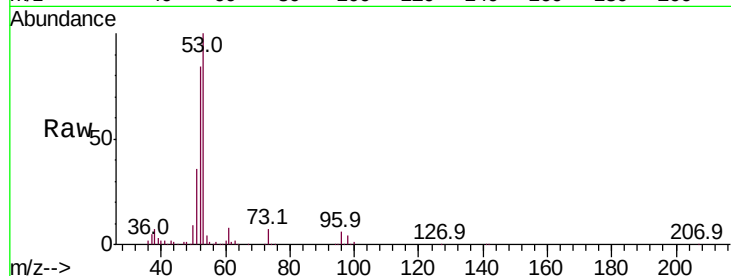
51 37.7 29.6 44.4

Manual Integrations

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#16

Acetone

Concen: 197.545 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN054227.D

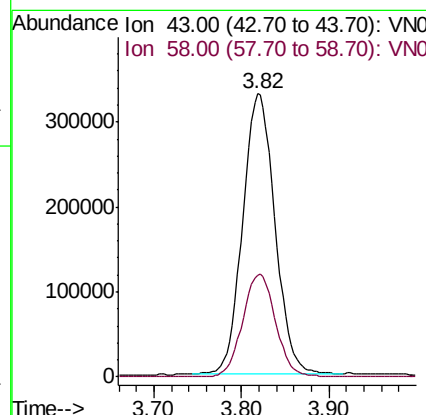
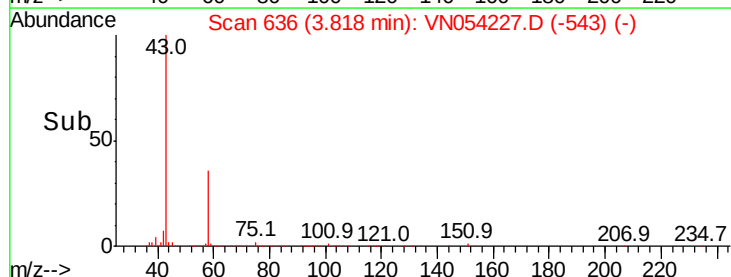
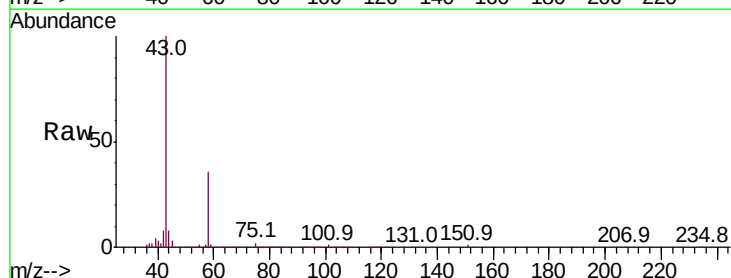
Acq: 13 Mar 2019 22:15

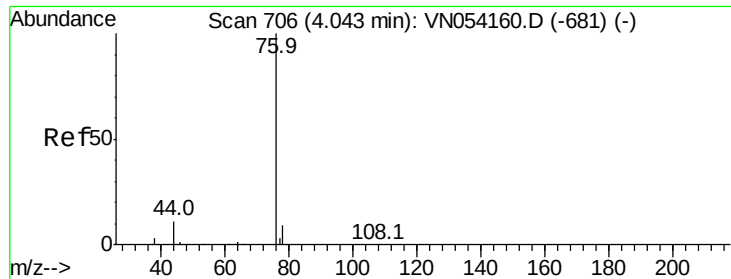
Tgt Ion: 43 Resp: 840786

Ion Ratio Lower Upper

43 100

58 36.4 29.9 44.9





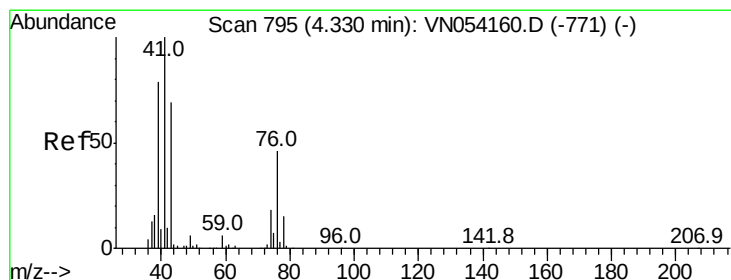
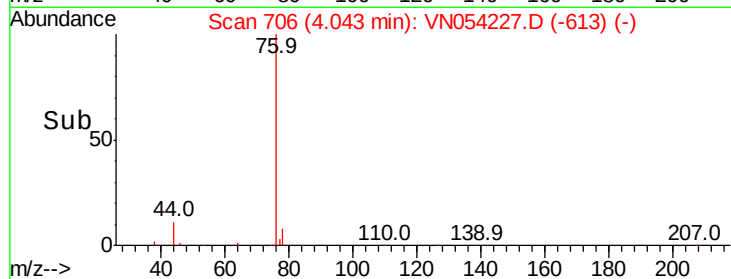
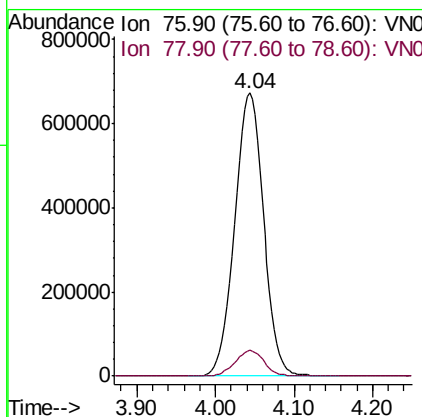
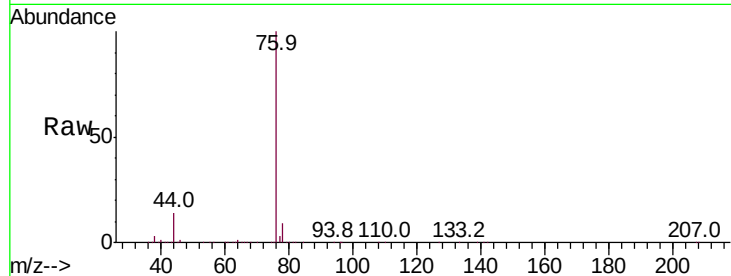
#17
Carbon Disulfide
Concen: 47.481 ug/l
RT: 4.04 min Scan# 706
Delta R.T. -0.00 min
Lab File: VN054227.D
Acq: 13 Mar 2019 22:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 76 Resp: 1730813
Ion Ratio Lower Upper
76 100
78 9.0 7.5 11.3

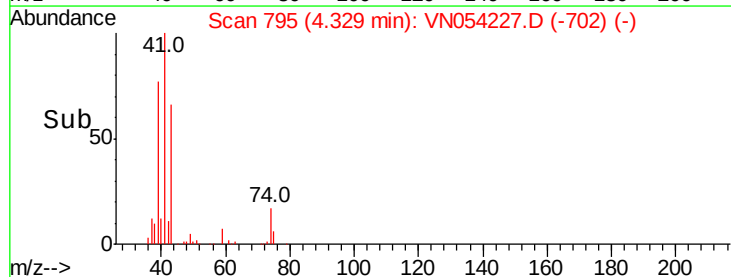
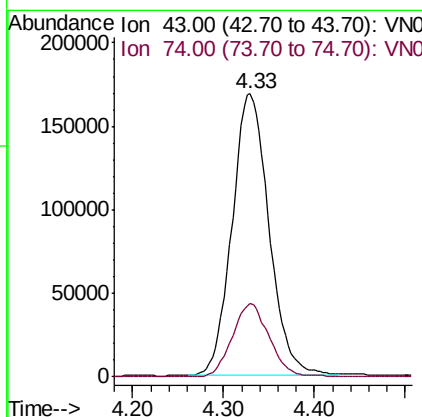
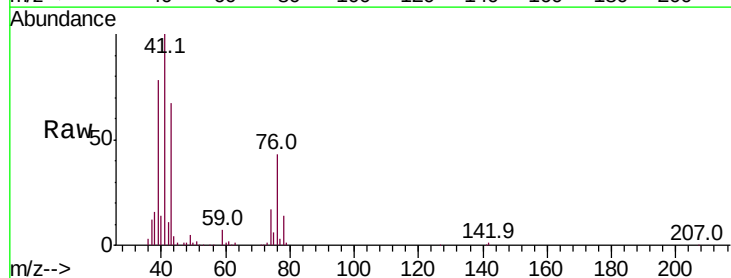
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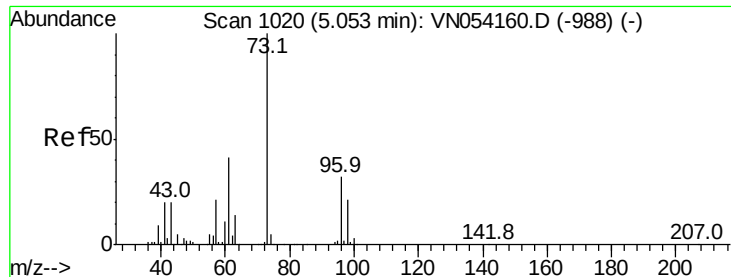
MMDadoda
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#18
Methyl Acetate
Concen: 55.435 ug/l
RT: 4.33 min Scan# 795
Delta R.T. -0.00 min
Lab File: VN054227.D
Acq: 13 Mar 2019 22:15

Tgt Ion: 43 Resp: 477354
Ion Ratio Lower Upper
43 100
74 25.9 20.8 31.2





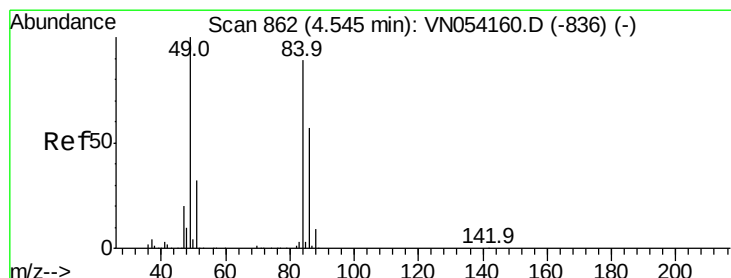
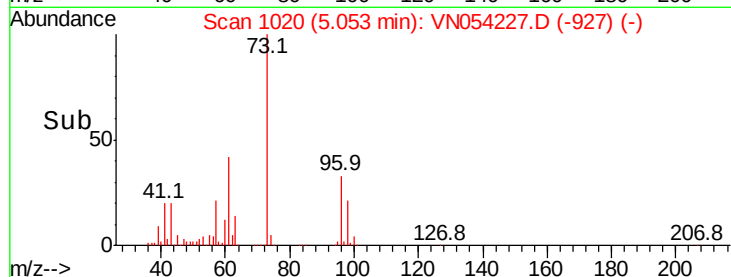
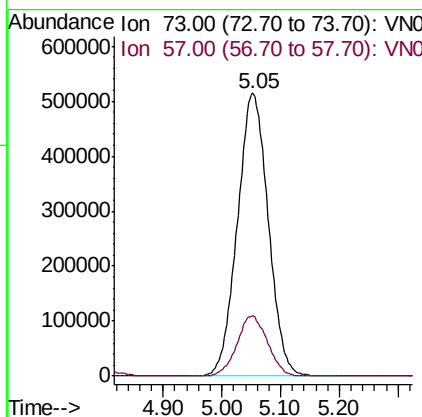
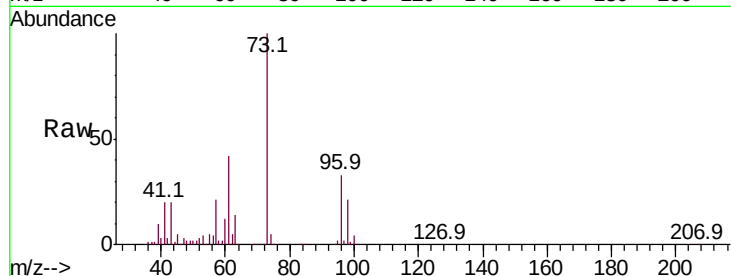
#19
Methvl tert-butyl Ether
Concen: 52.246 ug/l
RT: 5.05 min Scan# 1020
Delta R.T. -0.00 min
Lab File: VN054227.D
Acq: 13 Mar 2019 22:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 1883160
Ion Ratio Lower Upper
73 100
57 21.3 16.8 25.2

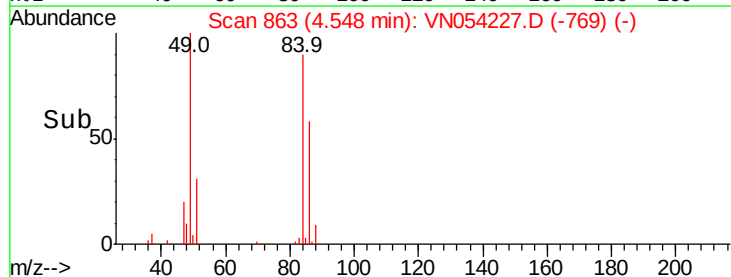
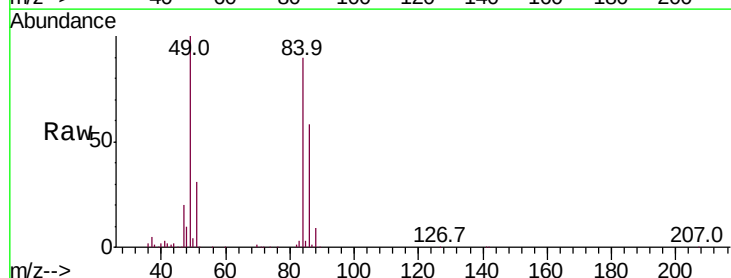
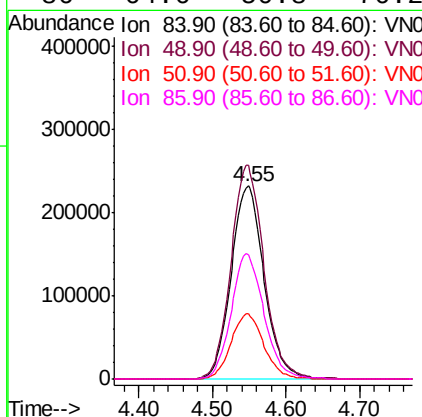
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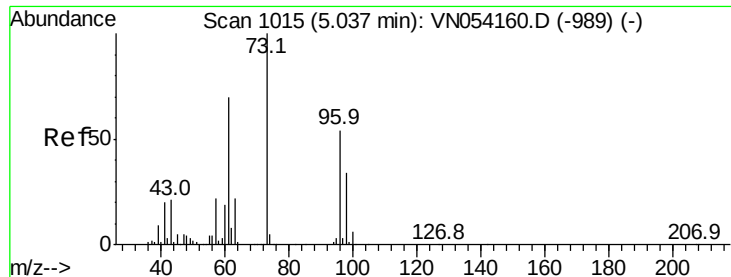
MMDadoda
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#20
Methylene Chloride
Concen: 51.665 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054227.D
Acq: 13 Mar 2019 22:15

Tgt Ion: 84 Resp: 722040
Ion Ratio Lower Upper
84 100
49 110.4 89.7 134.5
51 33.8 28.2 42.4
86 64.6 50.8 76.2





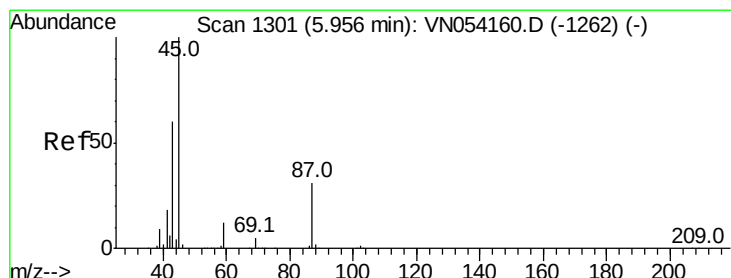
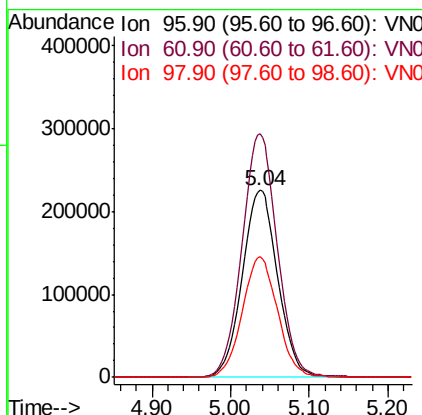
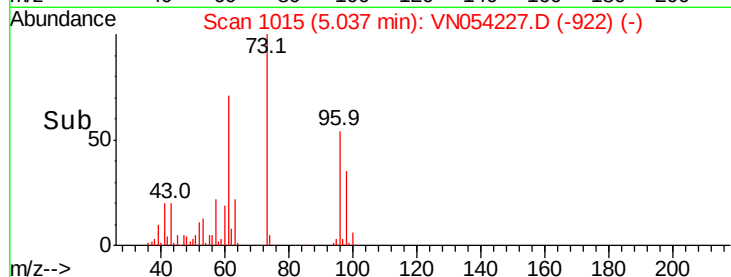
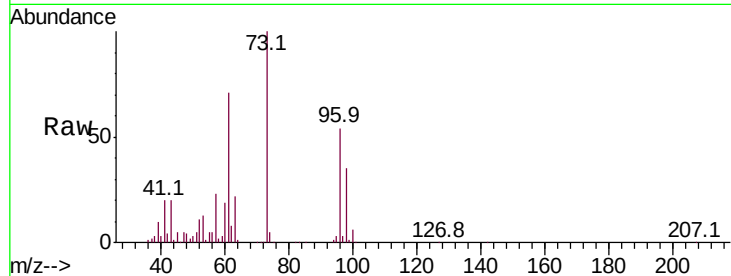
#21
trans-1,2-Dichloroethene
Concen: 51.448 ug/l
RT: 5.04 min Scan# 1015
Delta R.T. -0.00 min
Lab File: VN054227.D
Acq: 13 Mar 2019 22:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 96 Resp: 716802
Ion Ratio Lower Upper
96 100
61 130.4 102.8 154.2
98 64.4 50.0 75.0

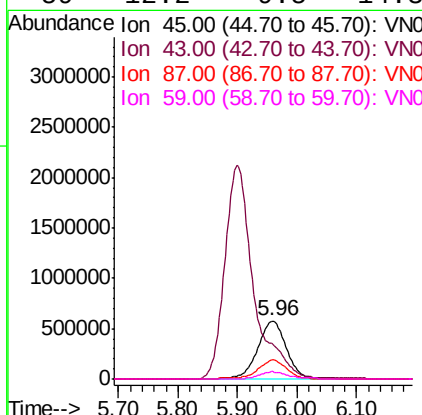
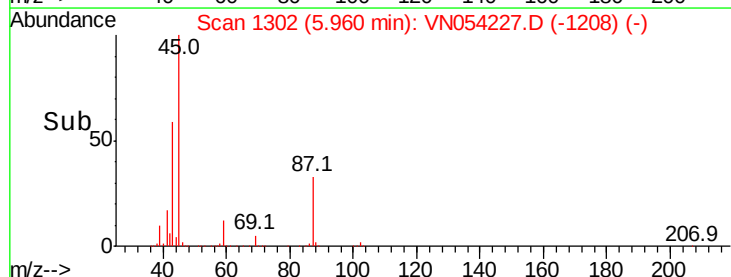
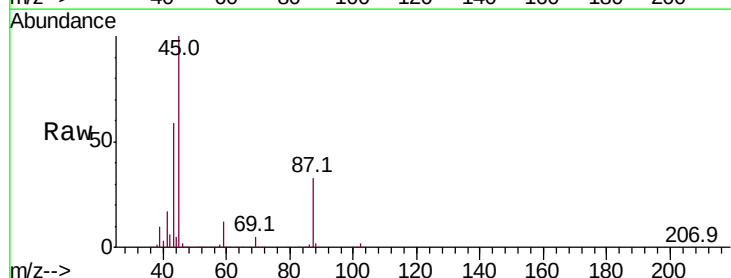
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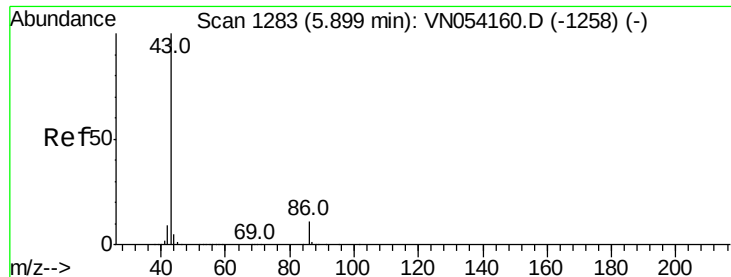
MMDadoda
3/14/2019 10:28:12 AM



#22
Diisopropyl ether
Concen: 52.949 ug/l
RT: 5.96 min Scan# 1302
Delta R.T. 0.00 min
Lab File: VN054227.D
Acq: 13 Mar 2019 22:15

Tgt Ion: 45 Resp: 1971645
Ion Ratio Lower Upper
45 100
43 58.9 48.2 72.2
87 32.4 24.9 37.3
59 12.2 9.5 14.3





#23

Vinyl Acetate

Concen: 261.495 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 7179251

Ion Ratio Lower Upper

43 100

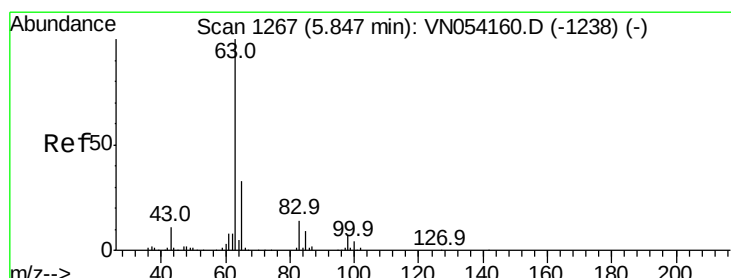
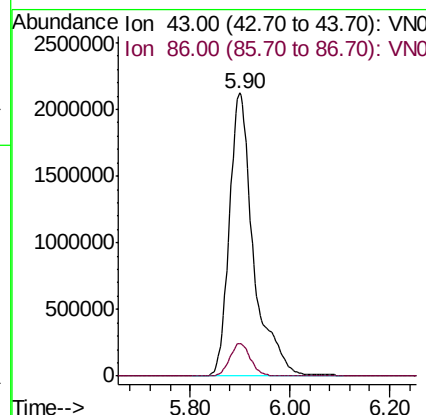
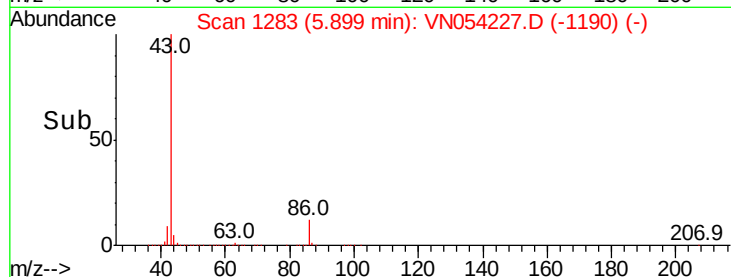
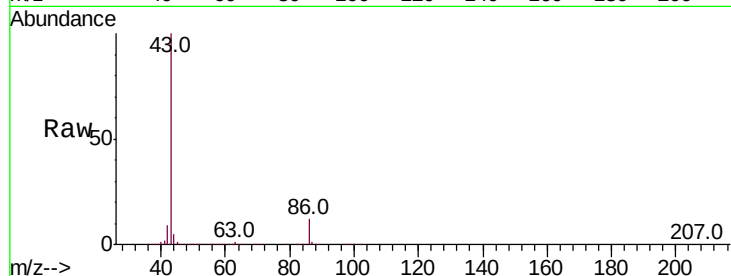
86 11.7 9.1 13.7

Manual Integrations

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MMDadoda

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#24

1,1-Dichloroethane

Concen: 52.010 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

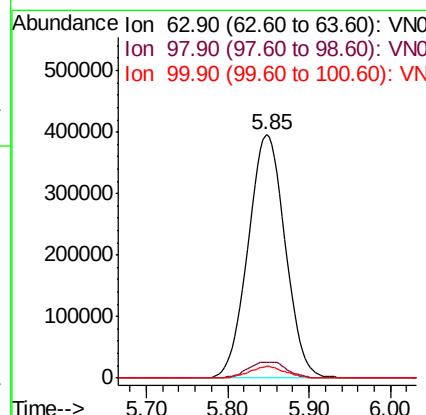
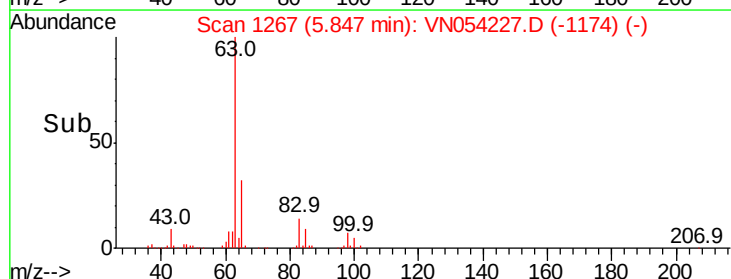
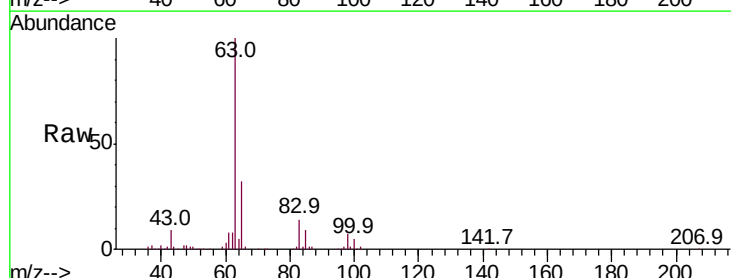
Tgt Ion: 63 Resp: 1243503

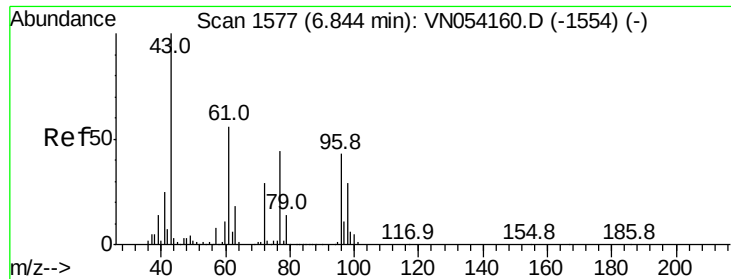
Ion Ratio Lower Upper

63 100

98 6.7 3.5 10.5

100 4.7 2.0 6.0





#25

2-Butanone

Concen: 250.948 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1253596

Ion Ratio Lower Upper

43 100

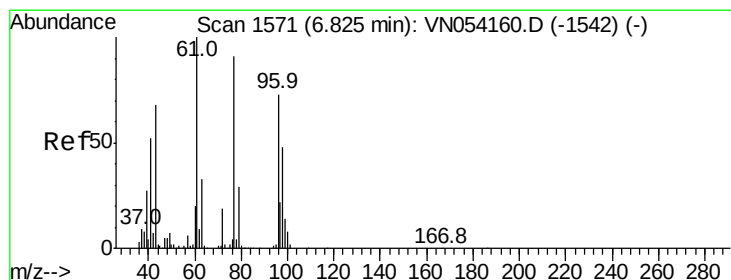
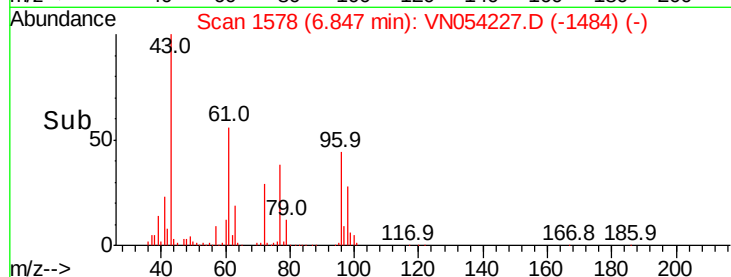
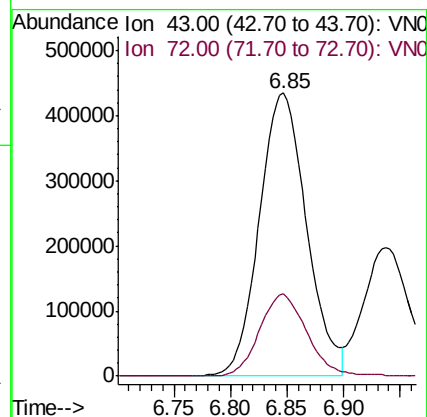
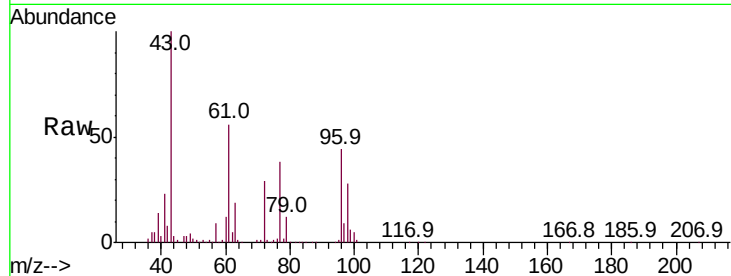
72 29.1 23.0 34.6

Manual Integrations

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MMDadoda

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#26

2,2-Dichloropropane

Concen: 44.215 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN054227.D

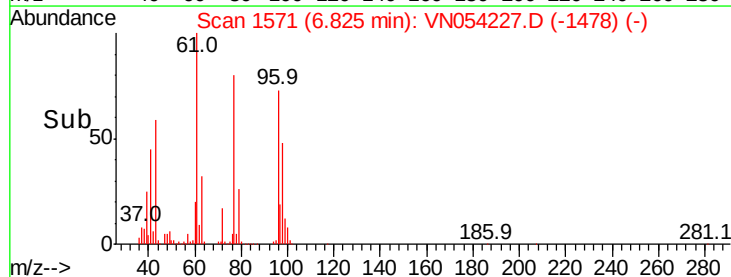
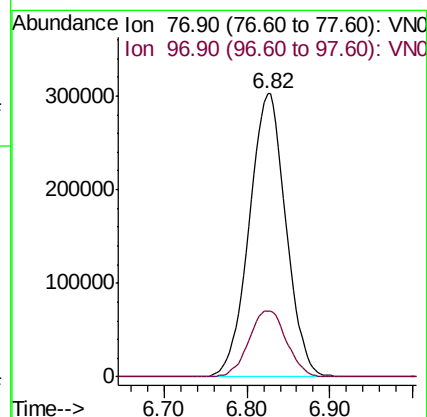
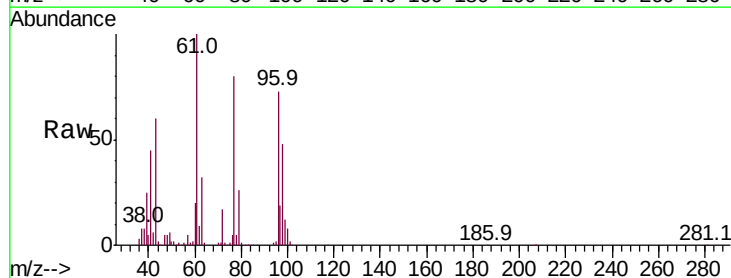
Acq: 13 Mar 2019 22:15

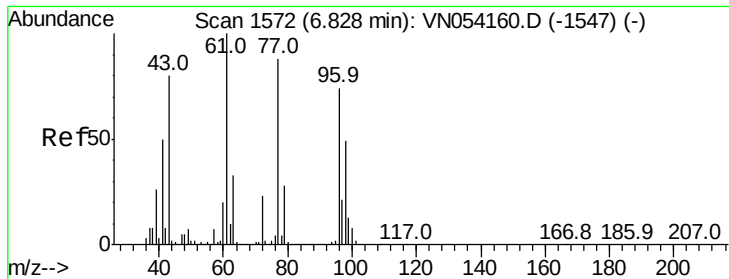
Tgt Ion: 77 Resp: 929630

Ion Ratio Lower Upper

77 100

97 24.0 11.9 35.9





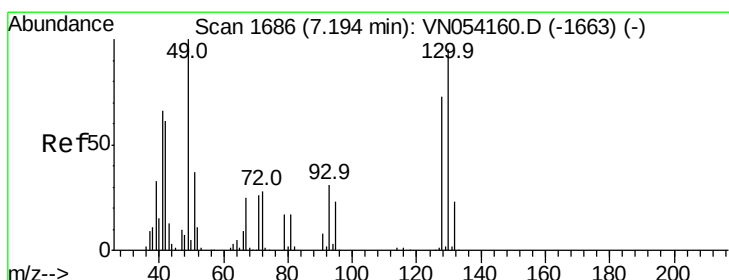
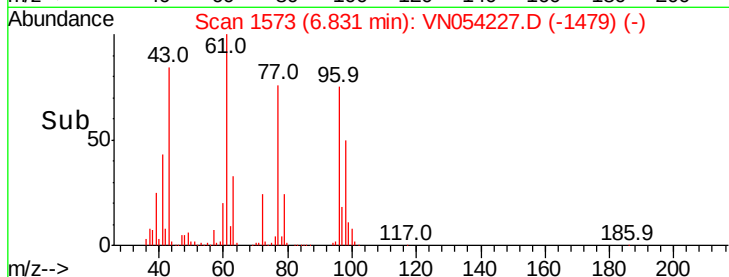
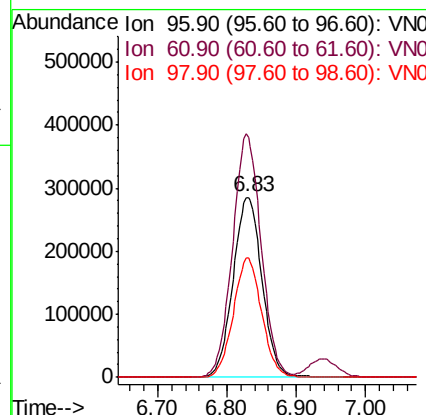
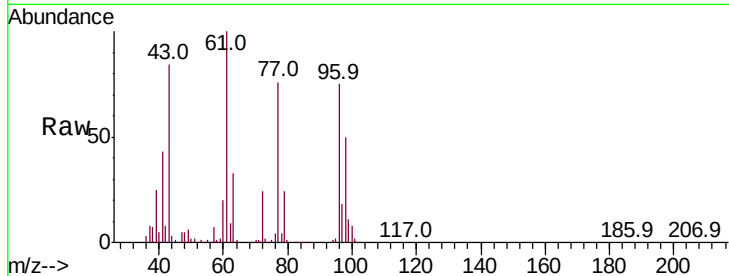
#27
 cis-1,2-Dichloroethene
 Concen: 53.566 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: VN054227.D
 Acq: 13 Mar 2019 22:15

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	133.3	0.0	273.0
98	65.1	0.0	130.6

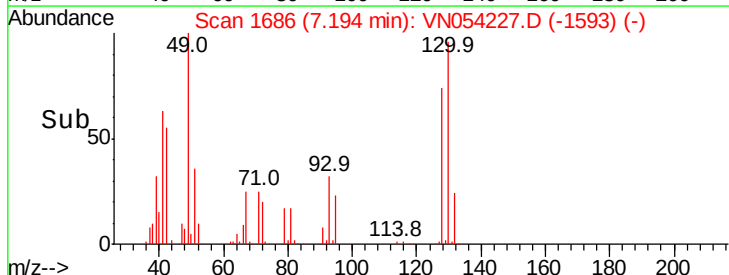
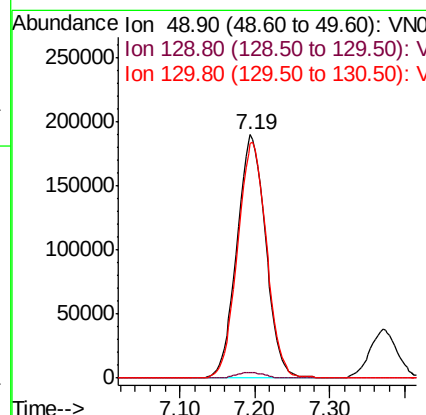
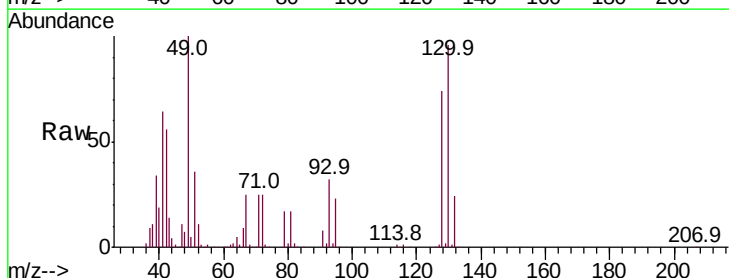
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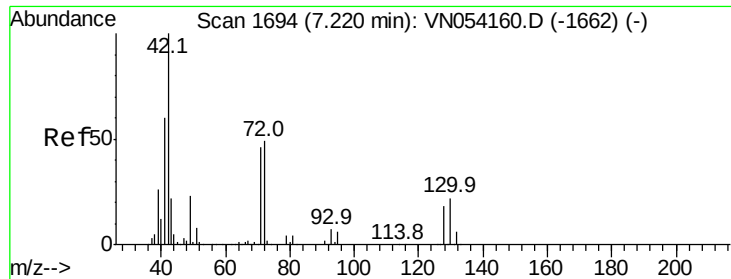
MMDadoda
 3/14/2019 10:28:12 AM



#28
 Bromochloromethane
 Concen: 52.107 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. -0.00 min
 Lab File: VN054227.D
 Acq: 13 Mar 2019 22:15

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.6
130	97.4	76.7	115.1





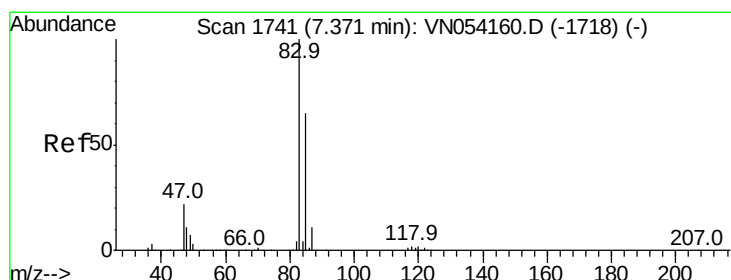
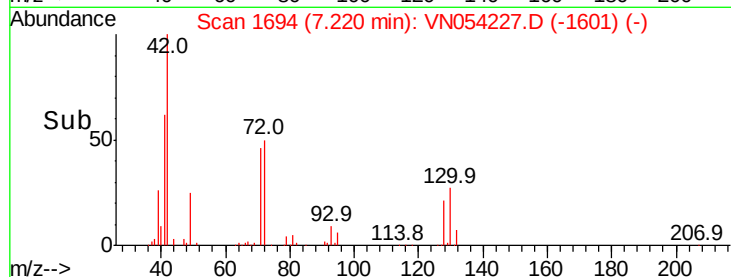
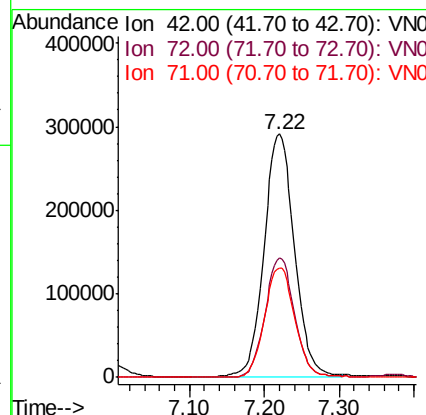
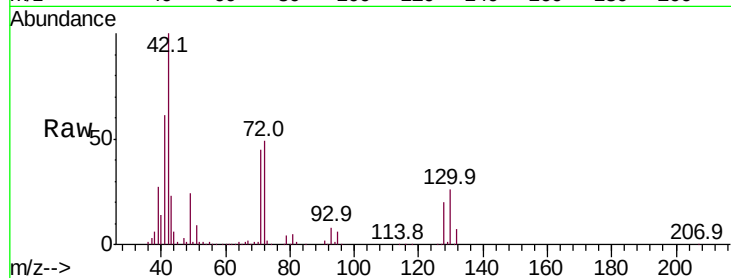
#29
Tetrahydrofuran
Concen: 255.513 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. -0.00 min
Lab File: VN054227.D
Acq: 13 Mar 2019 22:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	47.6	37.8	56.6
71	45.2	36.2	54.2

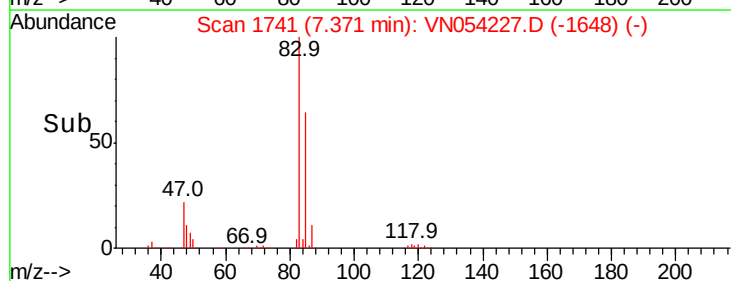
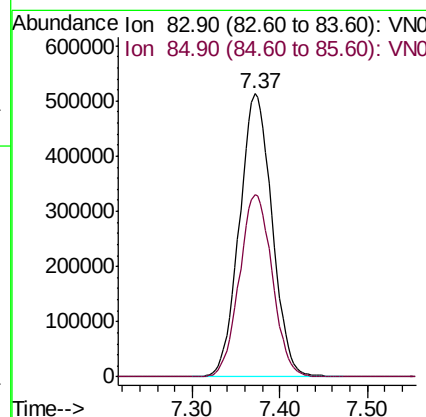
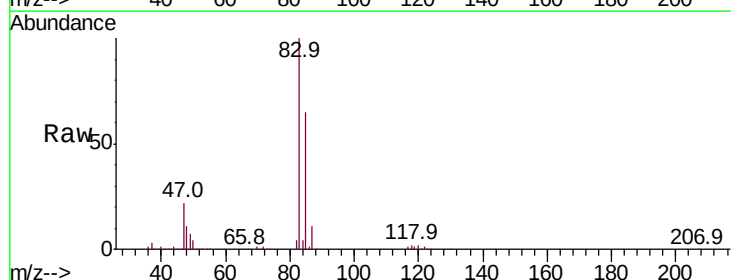
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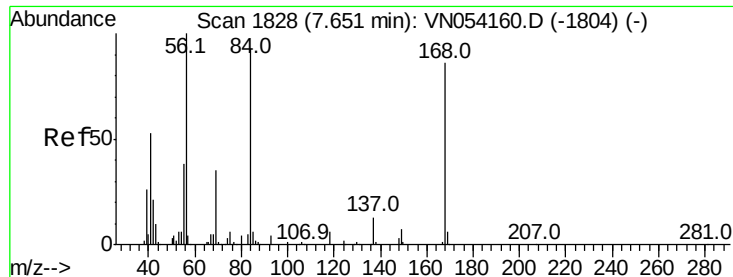
MMDadoda
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#30
Chloroform
Concen: 53.126 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN054227.D
Acq: 13 Mar 2019 22:15

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.6	52.2	78.4





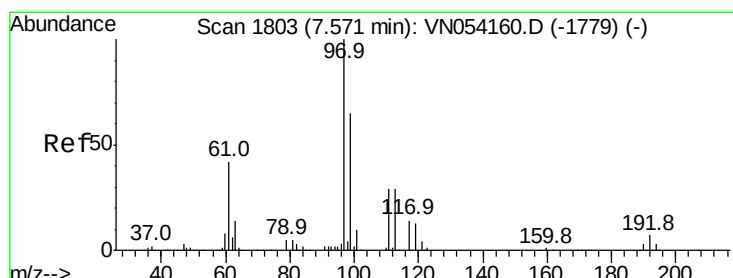
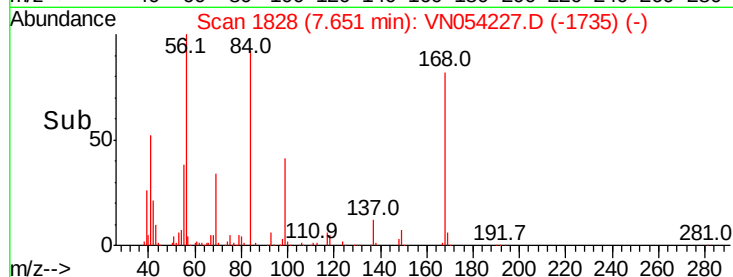
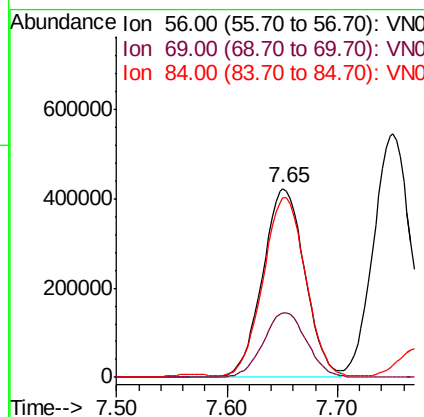
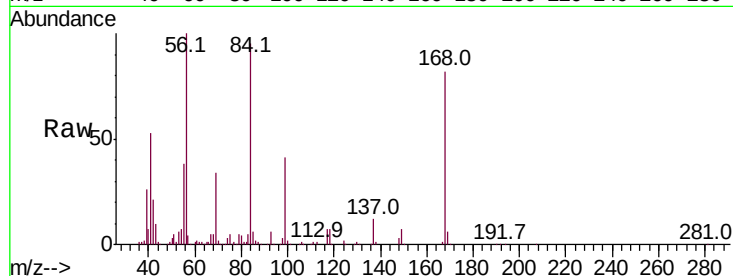
#31
Cyclohexane
Concen: 50.303 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.00 min
Lab File: VN054227.D
Acq: 13 Mar 2019 22:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 56 Resp: 1124235
Ion Ratio Lower Upper
56 100
69 34.0 27.8 41.6
84 93.2 74.6 111.8

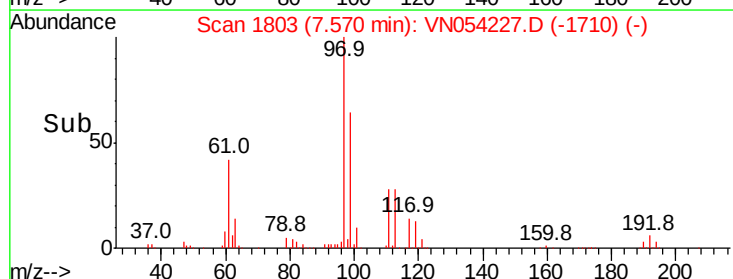
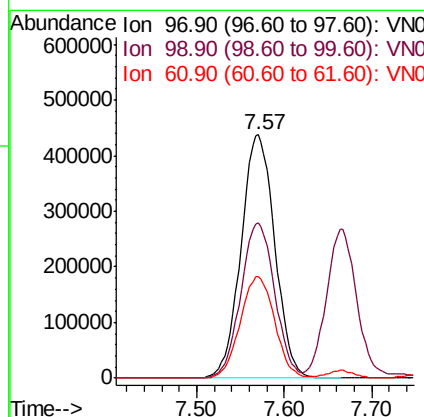
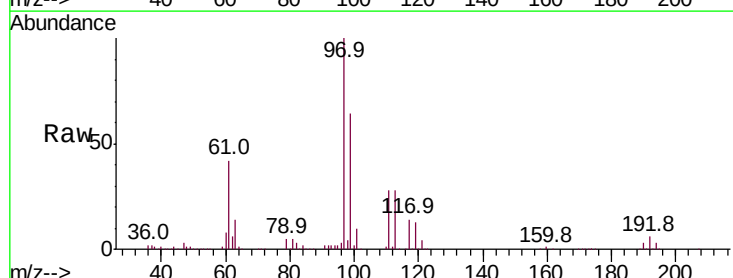
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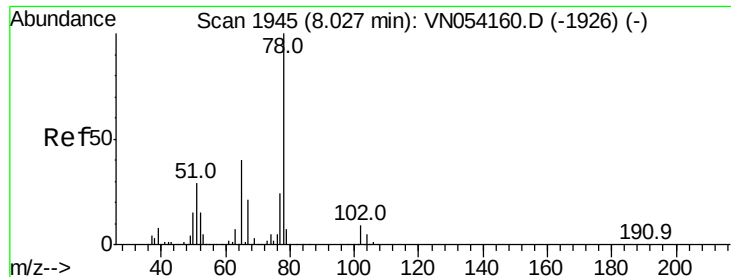
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 51.904 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VN054227.D
Acq: 13 Mar 2019 22:15

Tgt Ion: 97 Resp: 1169503
Ion Ratio Lower Upper
97 100
99 64.3 51.5 77.3
61 42.6 33.6 50.4





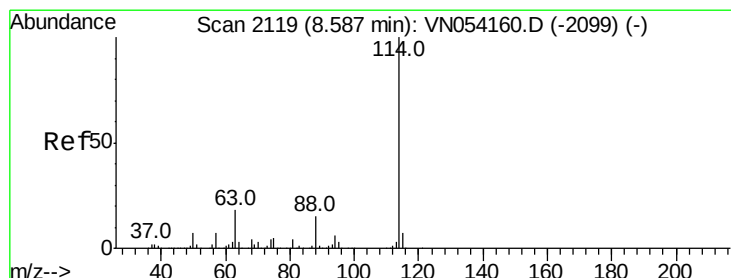
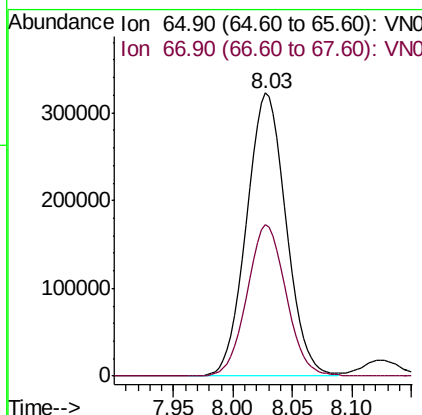
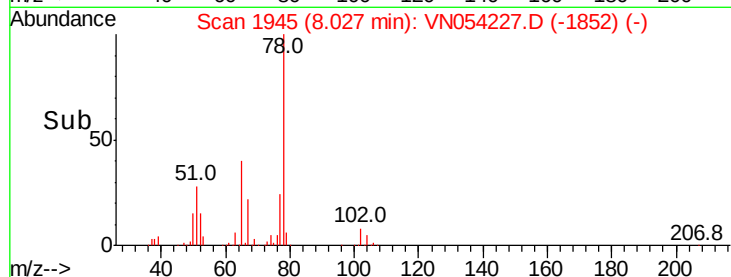
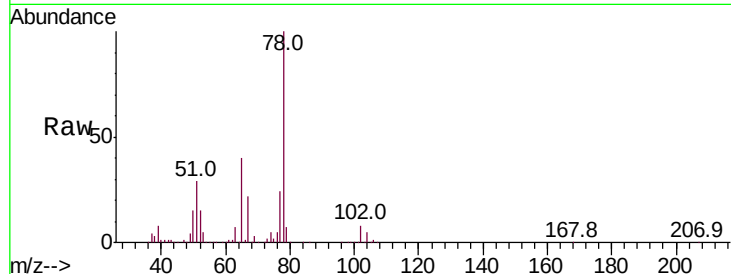
#33
 1,2-Dichloroethane-d4
 Concen: 49.978 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054227.D
 Acq: 13 Mar 2019 22:15

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	104.6

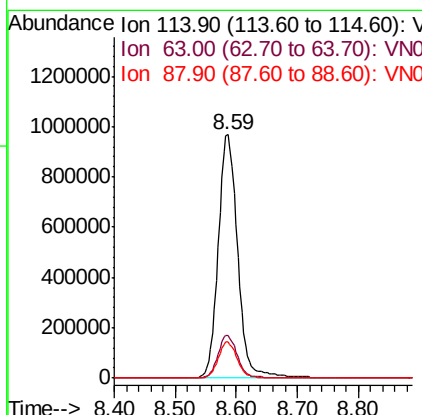
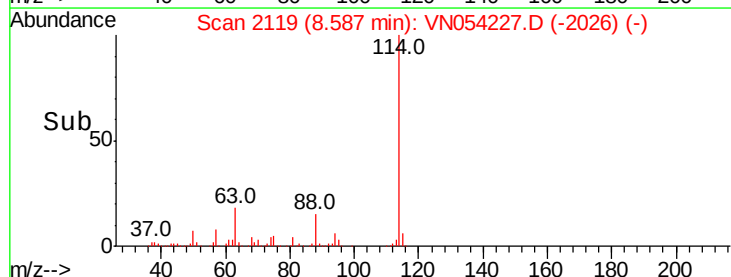
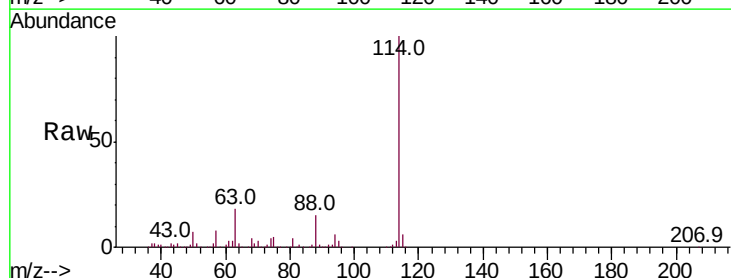
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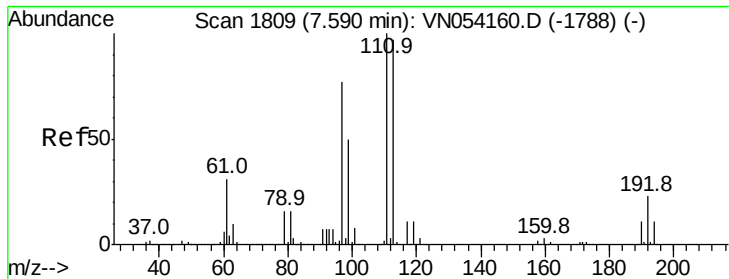
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054227.D
 Acq: 13 Mar 2019 22:15

Tgt Ion	Ratio	Lower	Upper
114	100		
63	17.6	0.0	35.2
88	14.6	0.0	30.2





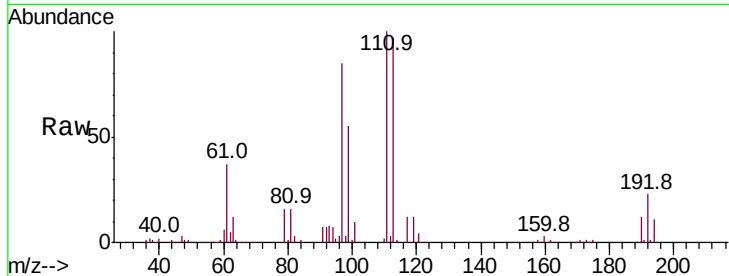
#35
 Dibromofluoromethane
 Concen: 49.449 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN054227.D
 Acq: 13 Mar 2019 22:15

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

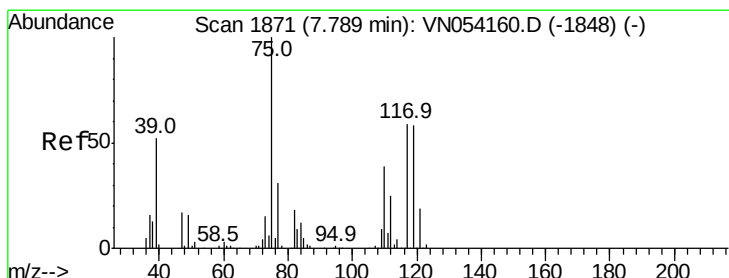
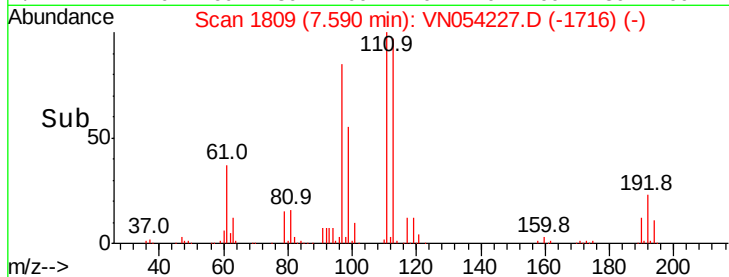
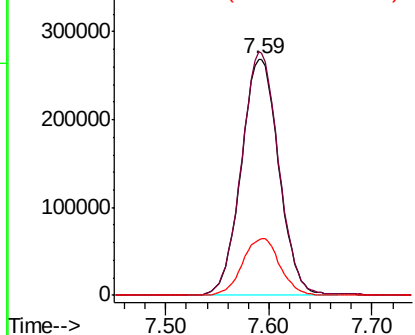
Tot Ion	Ratio	Resp	Lower	Upper
113	100	681573		
111	101.9	82.2	123.4	
192	24.0	19.2	28.8	

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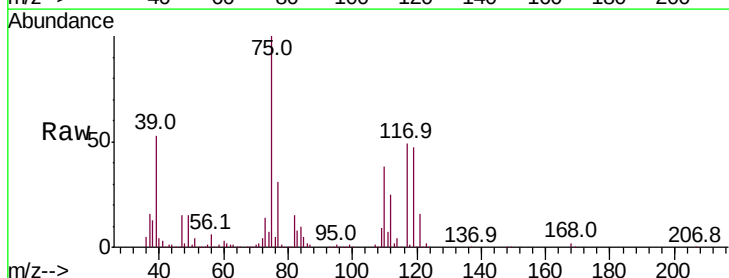


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

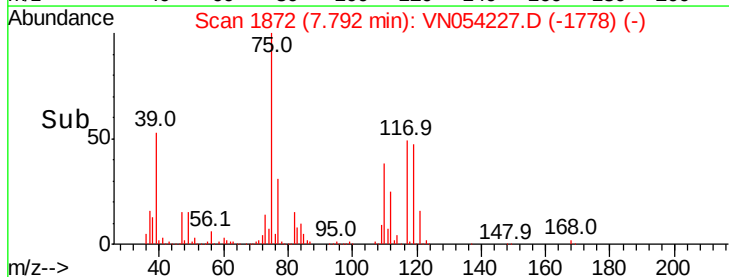
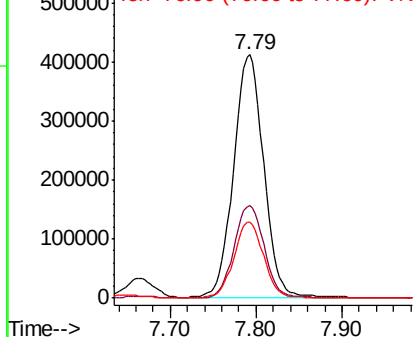


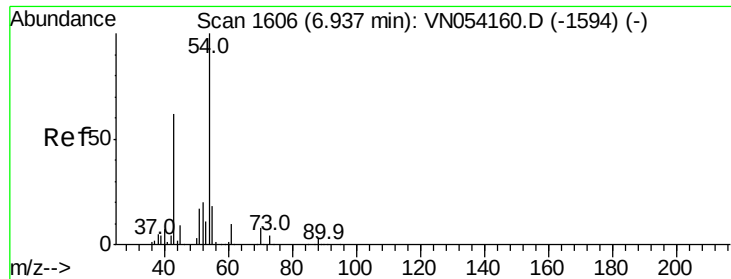
#36
 1,1-Dichloropropene
 Concen: 50.672 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN054227.D
 Acq: 13 Mar 2019 22:15

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	997278		
110	38.7	19.1	57.5	
77	31.1	25.0	37.4	



Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VNO





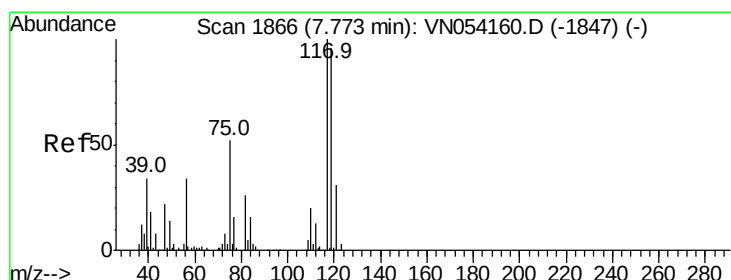
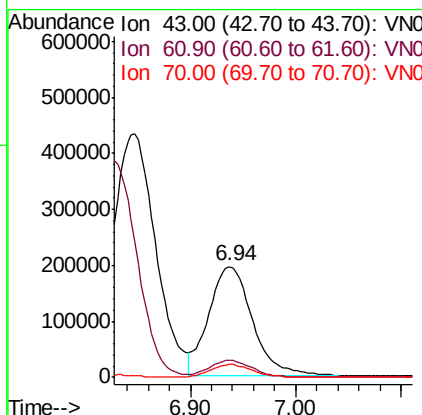
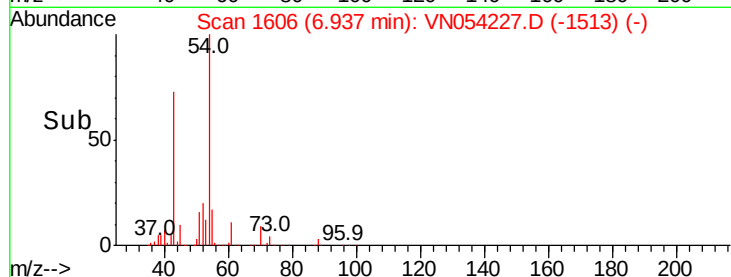
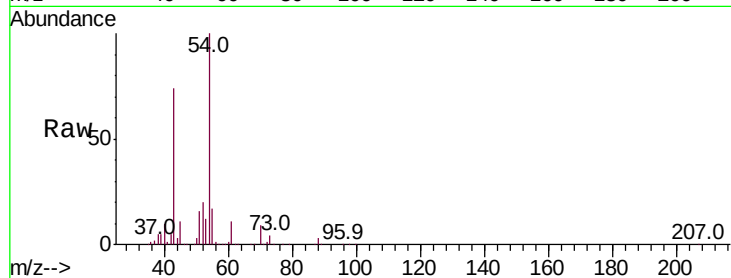
#37
Ethyl Acetate
Concen: 49.629 ug/l
RT: 6.94 min Scan# 1606
Delta R.T. -0.00 min
Lab File: VN054227.D
Acq: 13 Mar 2019 22:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.9	11.8	17.6
70	11.1	8.4	12.6

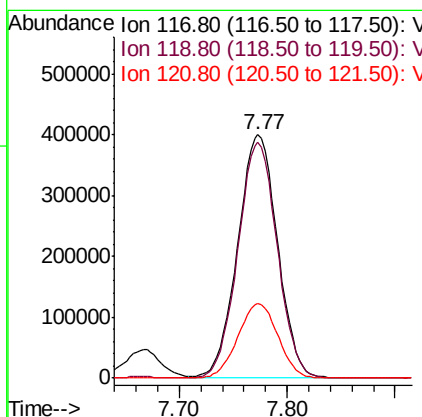
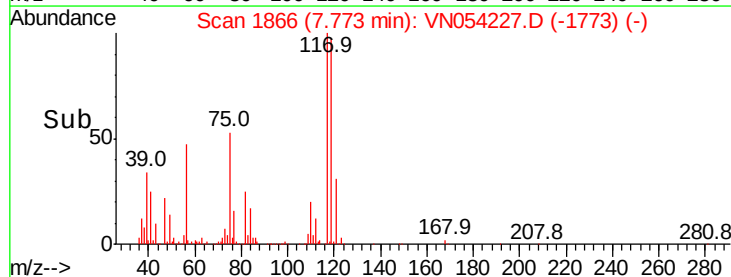
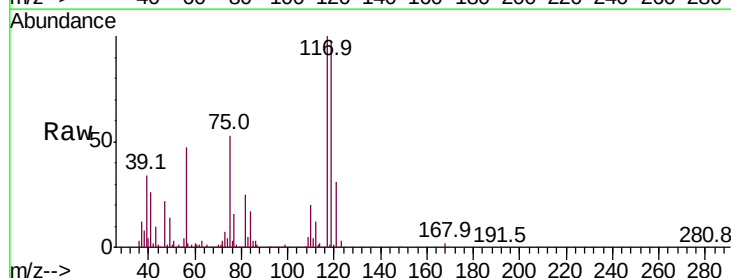
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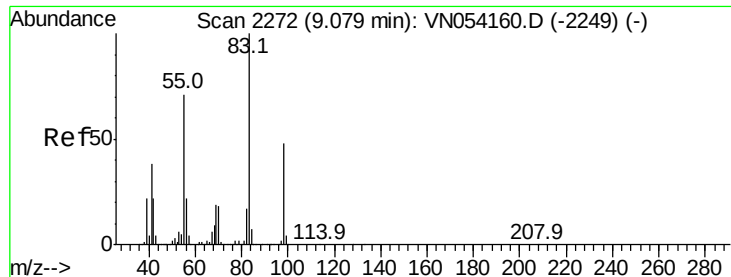
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#38
Carbon Tetrachloride
Concen: 49.500 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN054227.D
Acq: 13 Mar 2019 22:15

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.0	76.3	114.5
121	31.0	24.6	36.8





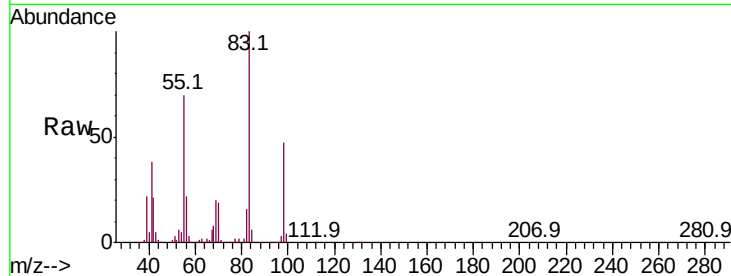
#39
Methylvlcyclohexane
Concen: 49.916 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN054227.D
Acq: 13 Mar 2019 22:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

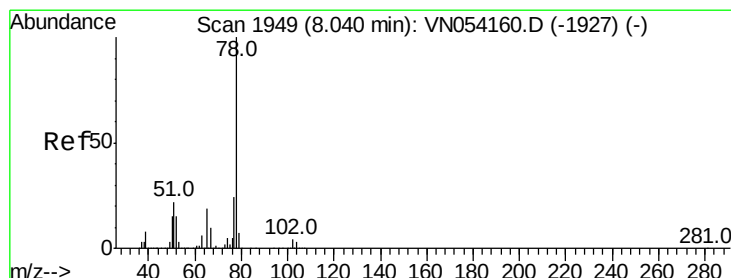
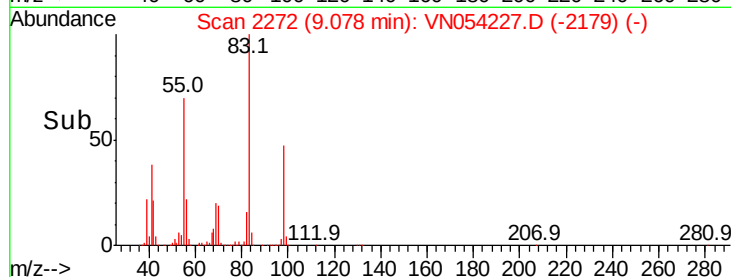
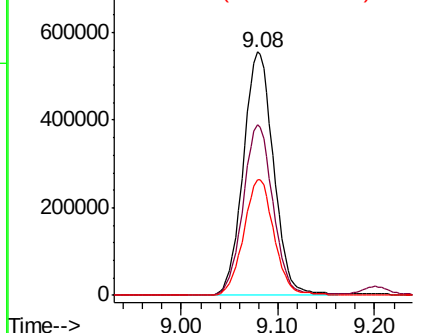
Tot Ion	83	Resp	1208716
Ion	Ratio	Lower	Upper
83	100		
55	70.0	56.6	84.8
98	47.4	38.4	57.6

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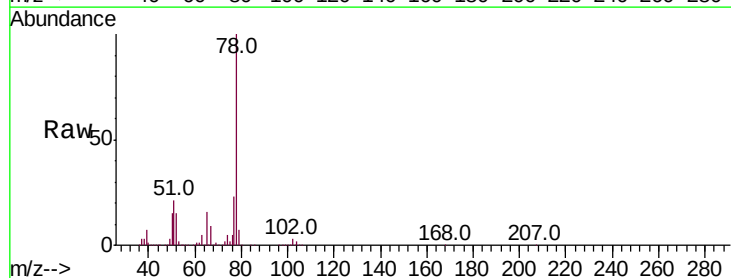


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

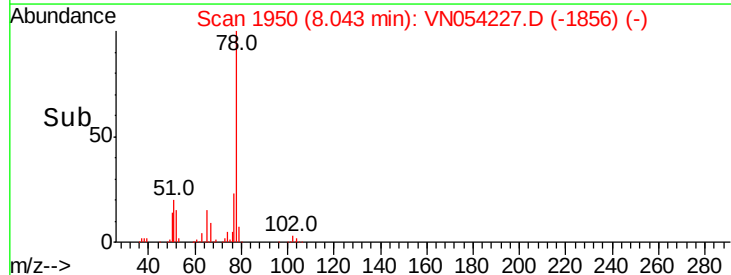
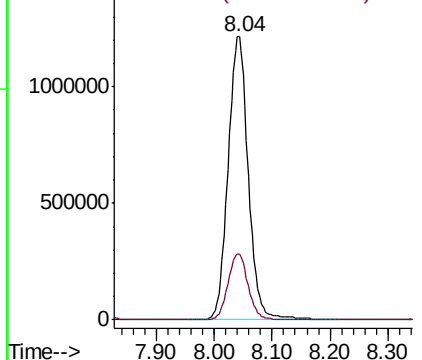


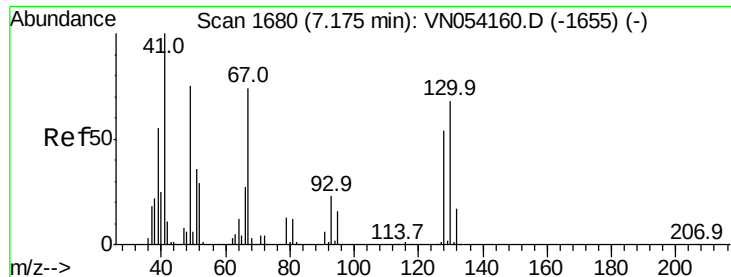
#40
Benzene
Concen: 51.895 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN054227.D
Acq: 13 Mar 2019 22:15

Tgt Ion	78	Resp	2922663
Ion	Ratio	Lower	Upper
78	100		
77	23.3	19.1	28.7



Abundance Ion 78.00 (77.70 to 78.70): VN0
Ion 77.00 (76.70 to 77.70): VN0





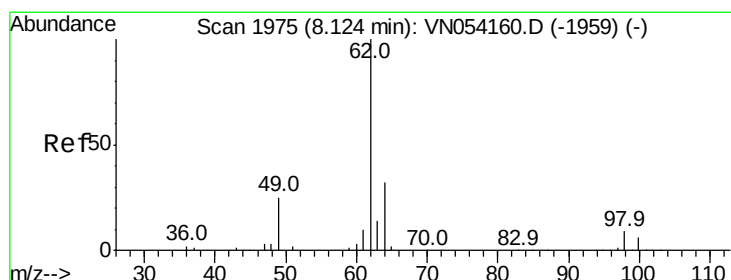
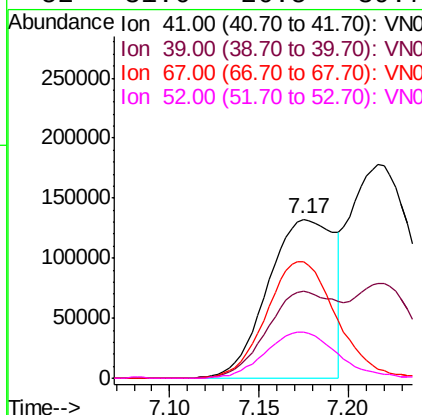
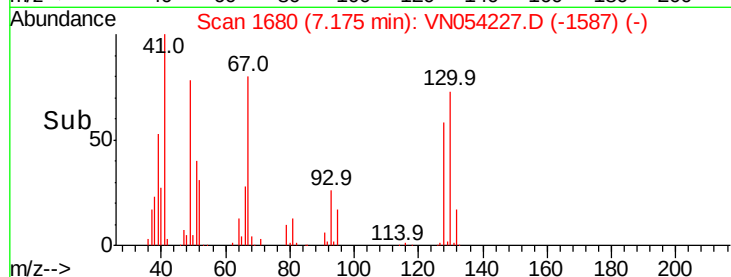
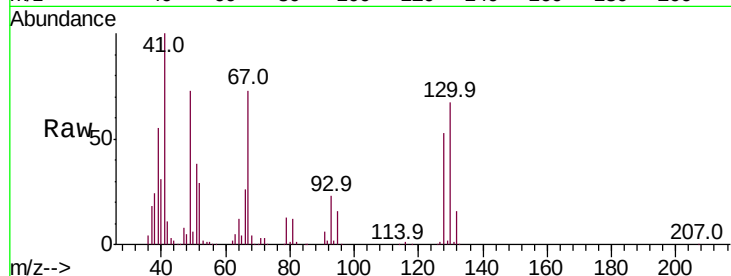
#41
Methacrylonitrile
Concen: 53.008 ug/l
RT: 7.17 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN054227.D
Acq: 13 Mar 2019 22:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	57.9	46.8	70.2	
67	78.4	67.0	100.4	
52	31.6	26.5	39.7	

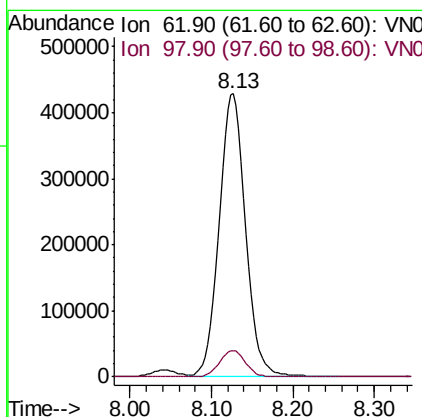
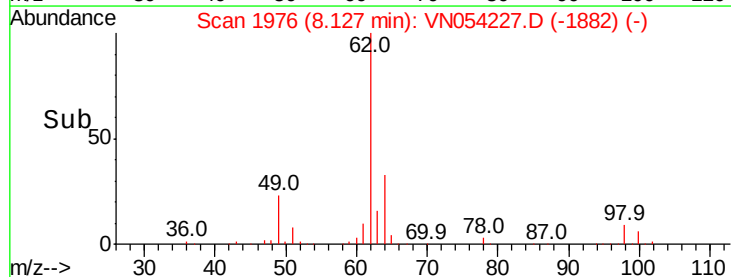
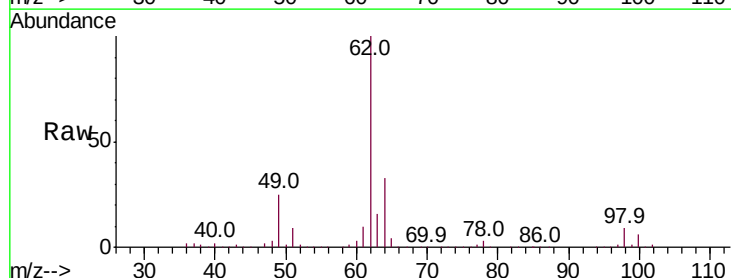
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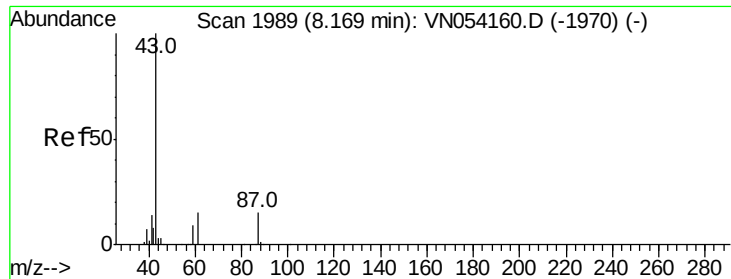
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#42
1,2-Dichloroethane
Concen: 51.513 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN054227.D
Acq: 13 Mar 2019 22:15

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.4	0.0	18.4	





#43

Isopropyl Acetate

Concen: 49.775 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. -0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 988008

Ion Ratio Lower Upper

43 100

61 21.1 15.8 23.8

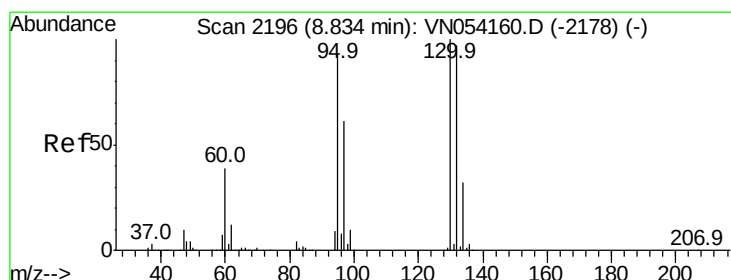
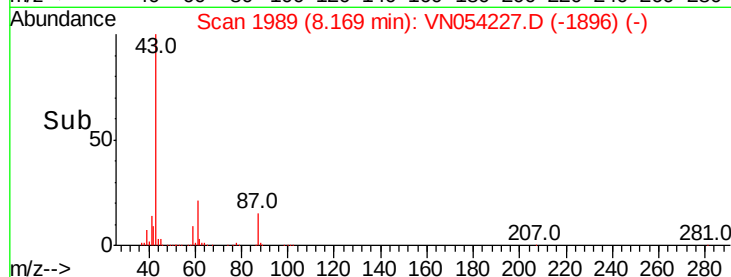
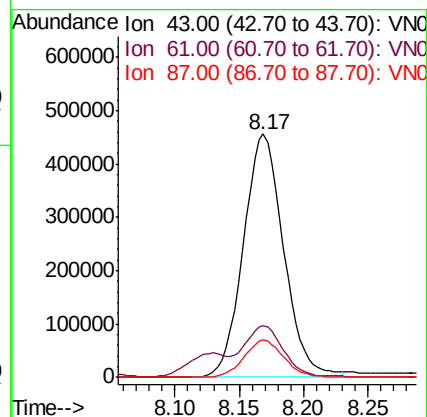
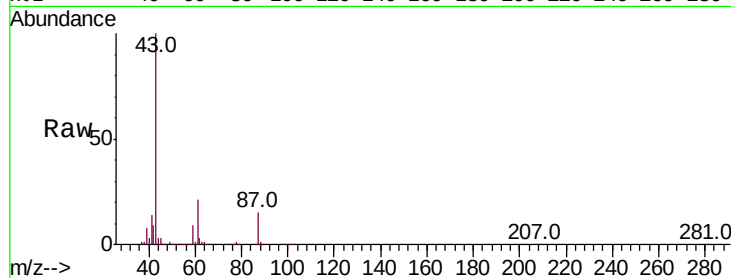
87 15.1 12.0 18.0

Manual Integrations

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MMDadoda

3/14/2019 10:28:12 AM



#44

Trichloroethene

Concen: 51.753 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN054227.D

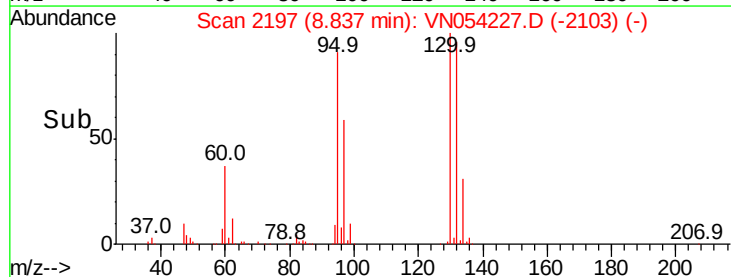
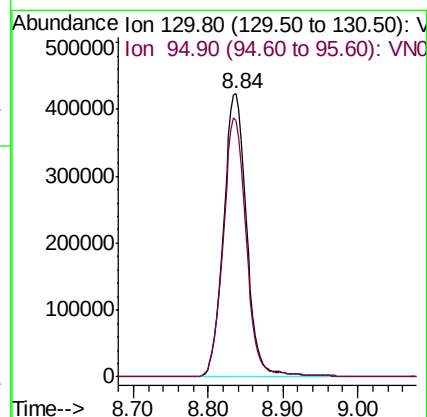
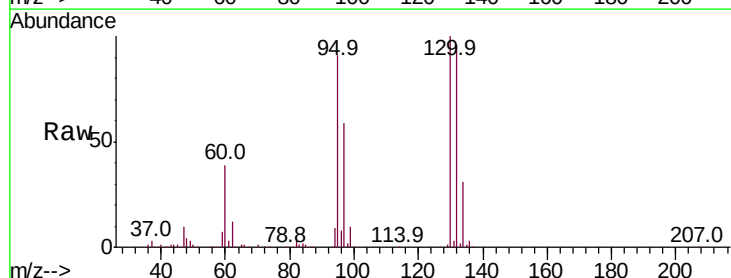
Acq: 13 Mar 2019 22:15

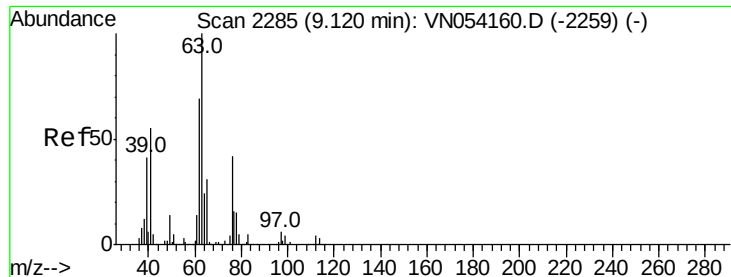
Tgt Ion:130 Resp: 905441

Ion Ratio Lower Upper

130 100

95 90.7 0.0 185.2





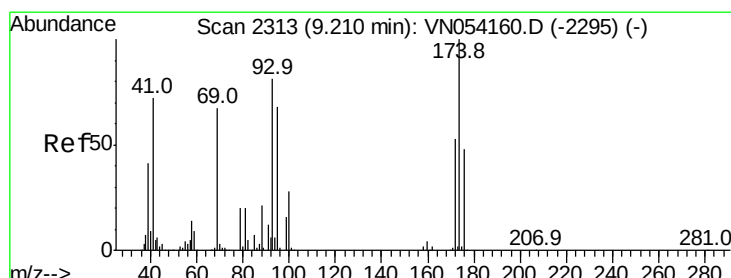
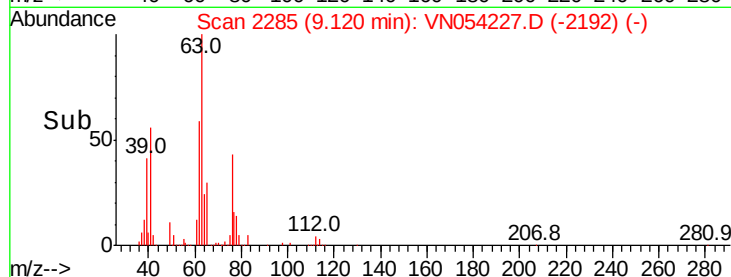
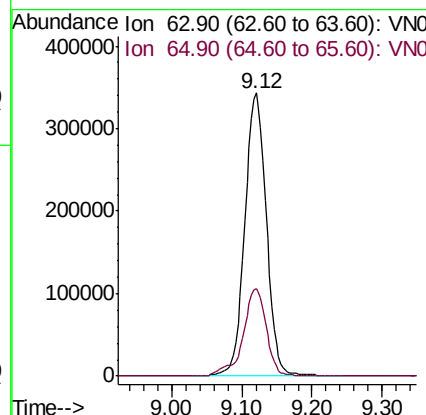
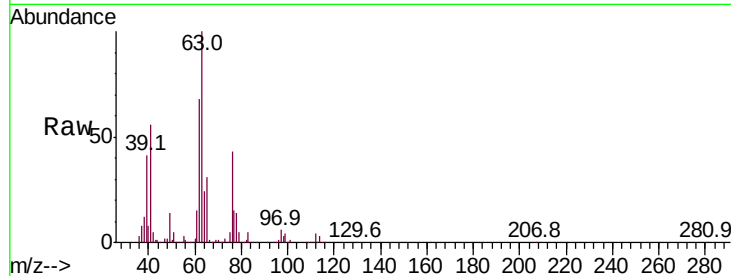
#45
 1,2-Dichloropropane
 Concen: 52.454 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. -0.00 min
 Lab File: VN054227.D
 Acq: 13 Mar 2019 22:15

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.1	25.0	37.6

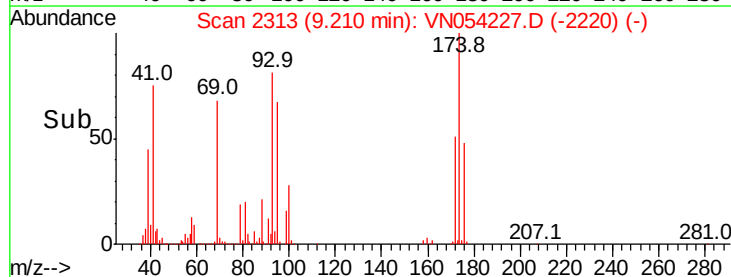
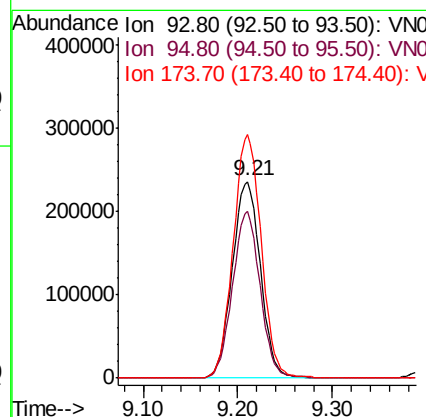
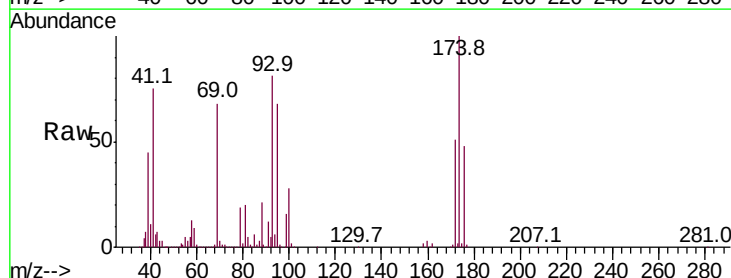
Manual Integrations
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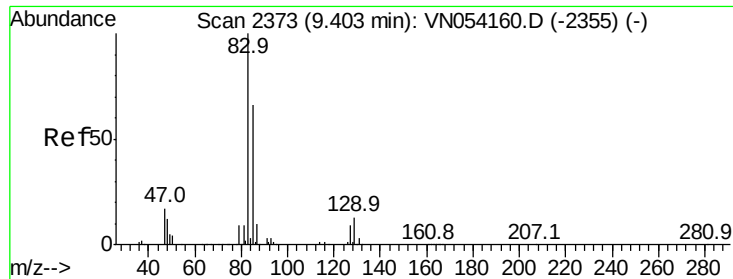
MMDadoda
 3/14/2019 10:28:12 AM



#46
 Dibromomethane
 Concen: 51.878 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. -0.00 min
 Lab File: VN054227.D
 Acq: 13 Mar 2019 22:15

Tgt Ion	Ratio	Lower	Upper
93	100		
95	82.5	66.7	100.1
174	122.8	98.5	147.7





#47

Bromodichloromethane

Concen: 52.021 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

Instrument :

MSVOA_N

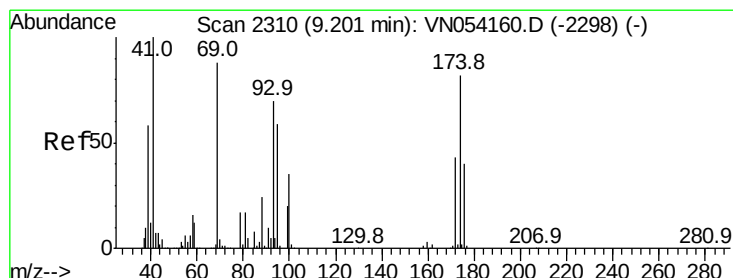
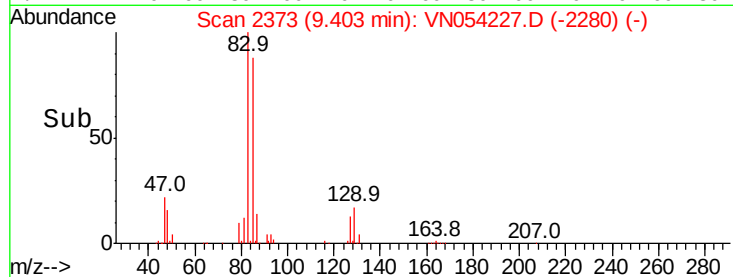
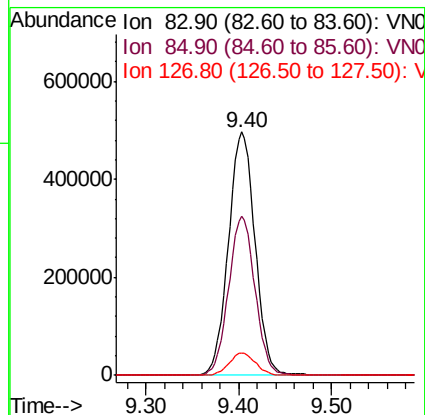
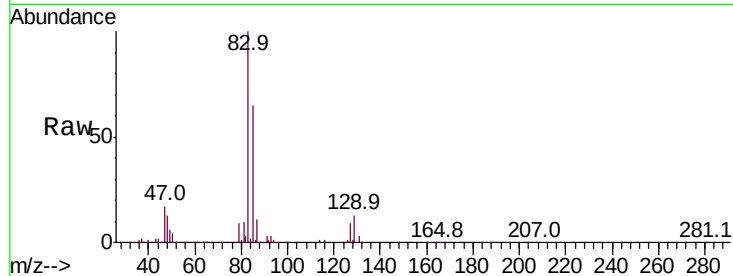
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	985404
Ion Ratio	Lower	Upper	
83	100		
85	65.4	52.8	79.2
127	9.3	7.4	11.2

Manual Integrations
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MMDadoda
3/14/2019 10:28:12 AM



#48

Methyl methacrylate

Concen: 50.503 ug/l

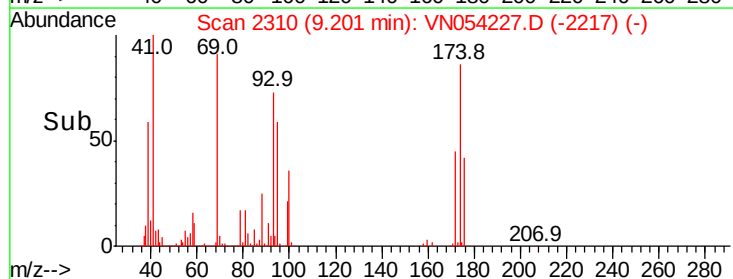
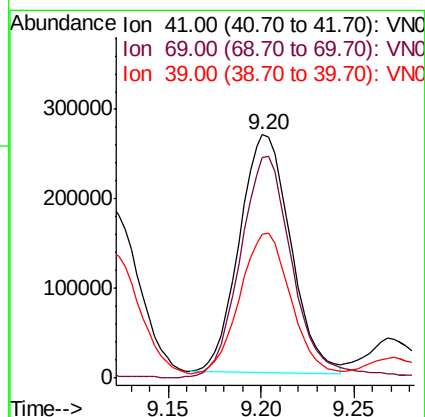
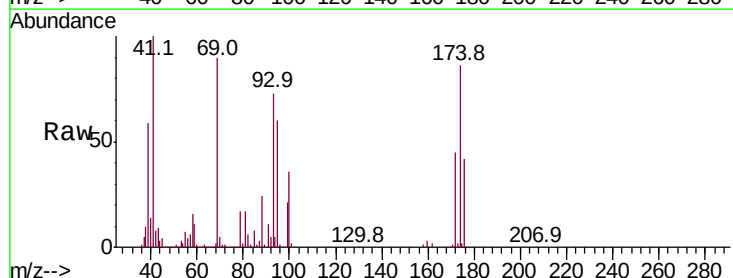
RT: 9.20 min Scan# 2310

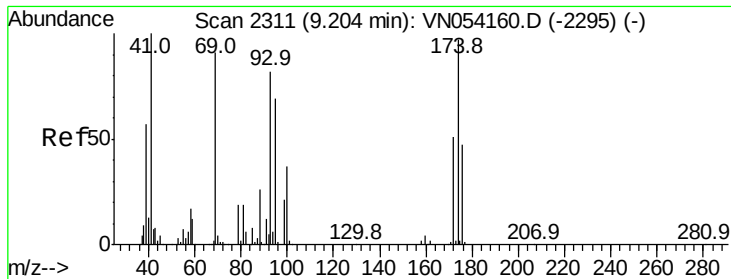
Delta R.T. -0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

Tgt Ion:	41	Resp:	508728
Ion Ratio	Lower	Upper	
41	100		
69	95.9	72.6	108.8
39	61.7	47.5	71.3





#49

1,4-Dioxane

Concen: 1022.122 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. -0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

Instrument :

MSVOA_N

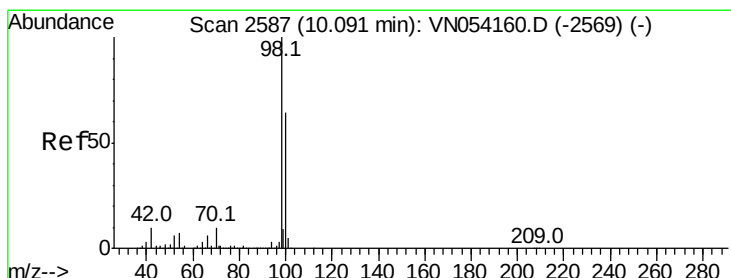
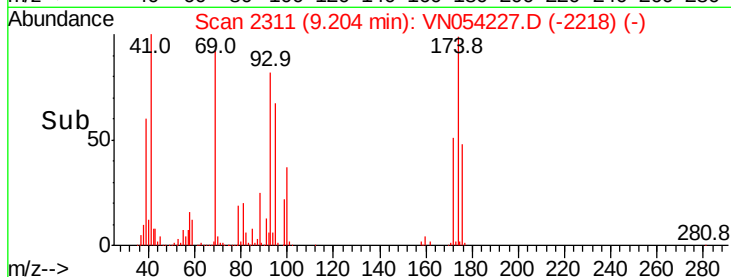
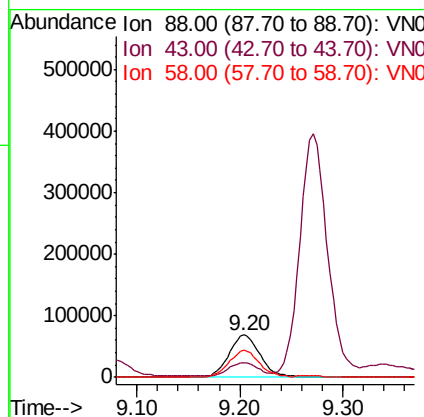
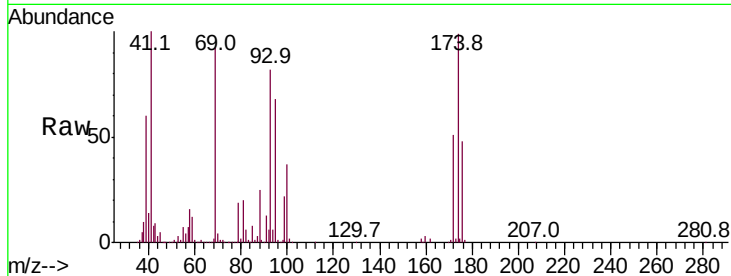
ClientSampleId :

VSTDCCC050

Tot Ion:	88	Resp:	145637
Ion	Ratio	Lower	Upper
88	100		
43	30.2	24.1	36.1
58	62.5	50.8	76.2

Manual Integrations
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#50

Toluene-d8

Concen: 48.887 ug/l

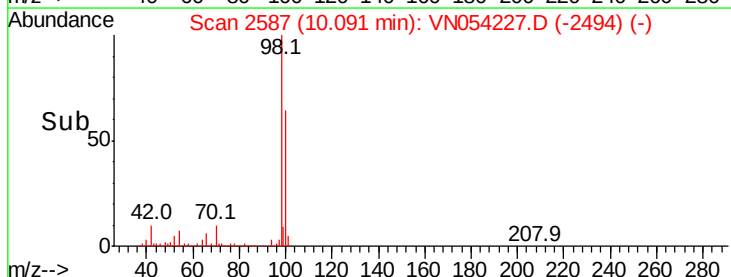
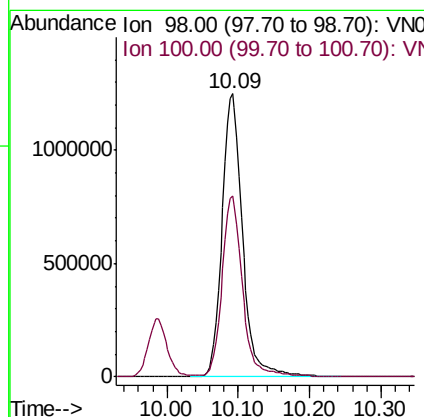
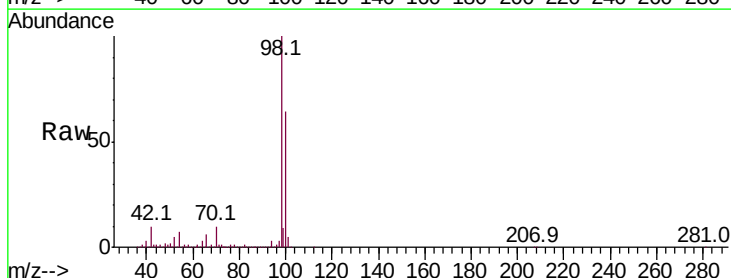
RT: 10.09 min Scan# 2587

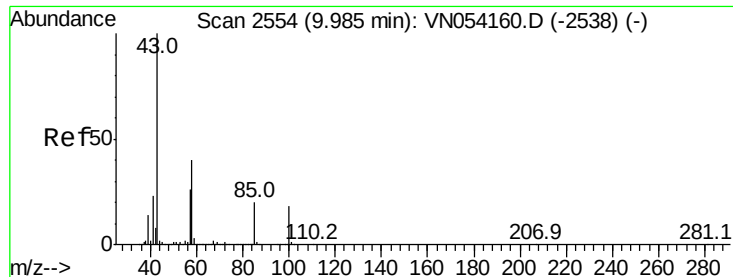
Delta R.T. -0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

Tgt Ion:	98	Resp:	2488570
Ion	Ratio	Lower	Upper
98	100		
100	64.0	51.2	76.8





#51

4-Methyl-2-Pentanone

Concen: 263.386 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 2766724

Ion Ratio Lower Upper

43 100

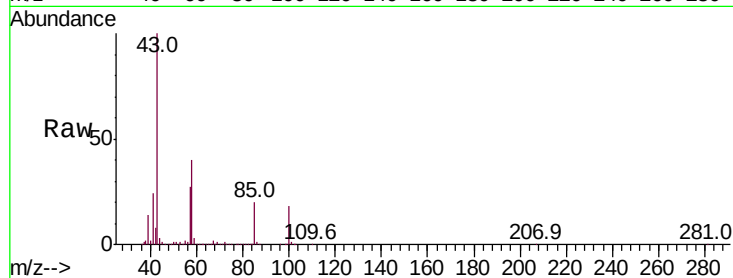
58 39.7 31.8 47.6

Manual Integrations

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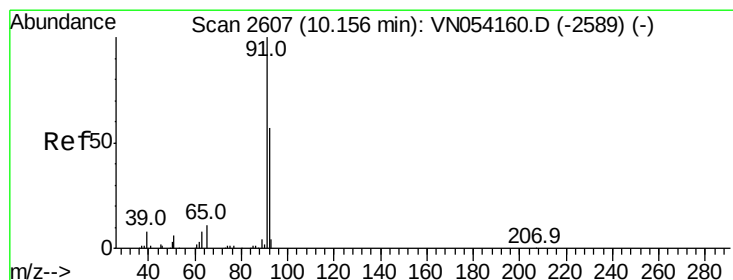
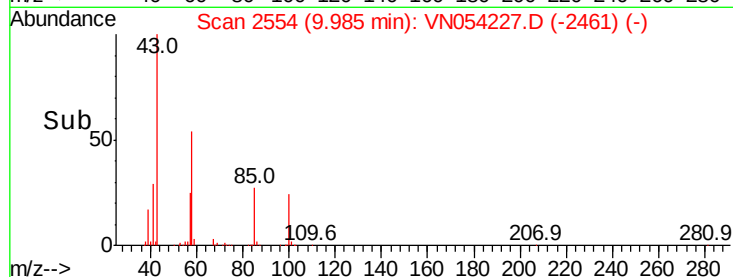
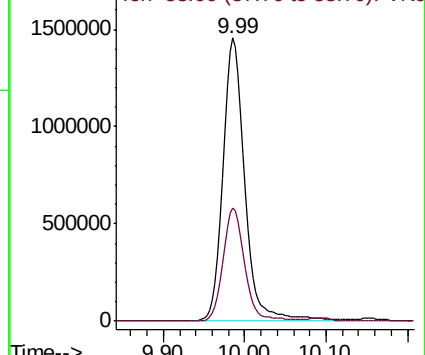
MMDadoda

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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: 52.331 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN054227.D

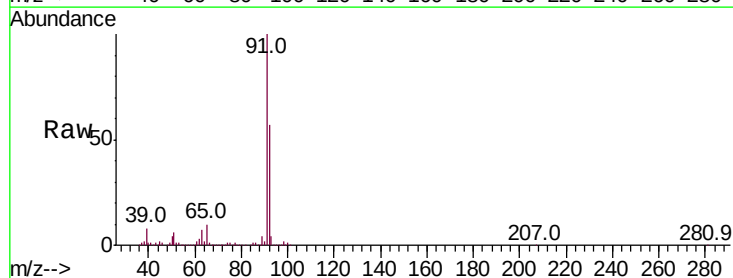
Acq: 13 Mar 2019 22:15

Tgt Ion: 92 Resp: 1868734

Ion Ratio Lower Upper

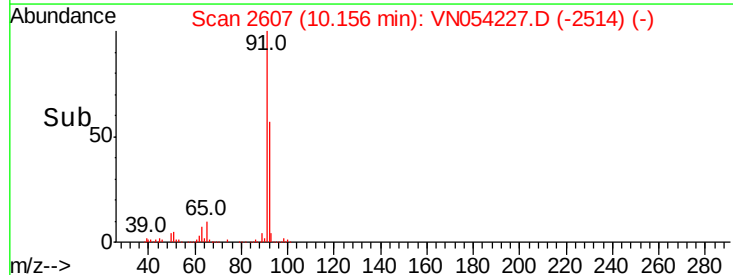
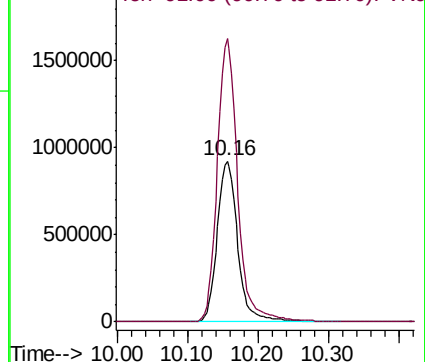
92 100

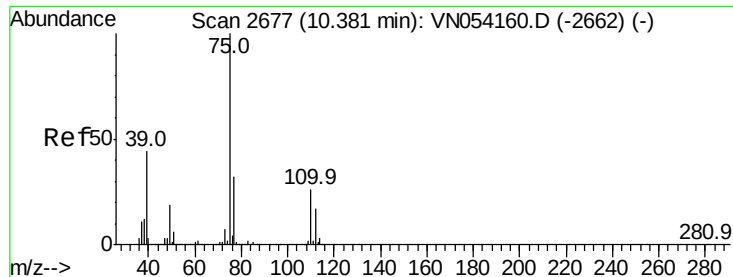
91 174.6 140.7 211.1



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





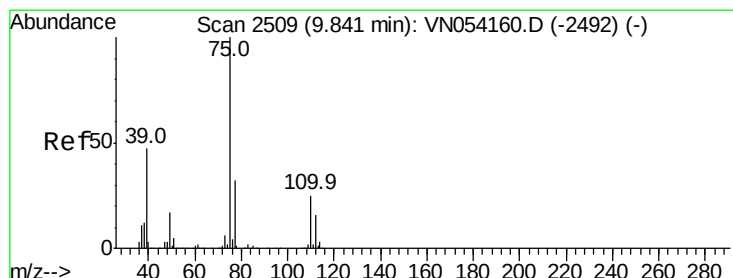
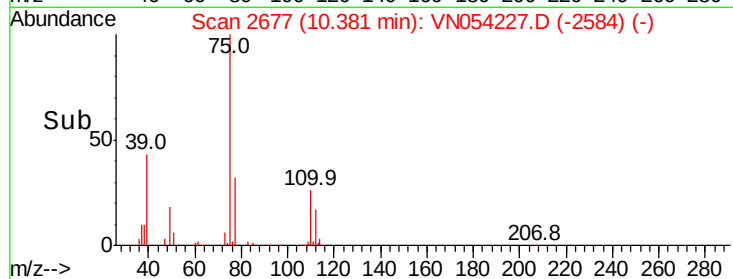
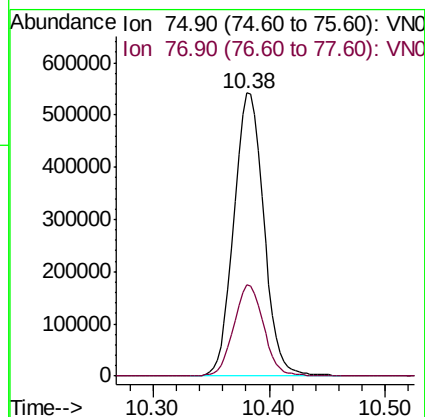
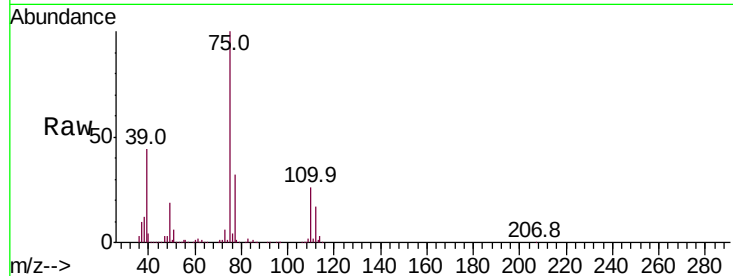
#53
 t-1,3-Dichloropropene
 Concen: 44.960 ug/l
 RT: 10.38 min Scan# 2677
 Delta R.T. -0.00 min
 Lab File: VN054227.D
 Acq: 13 Mar 2019 22:15

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.8	38.8

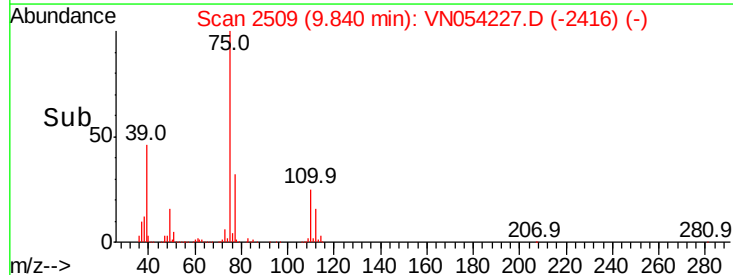
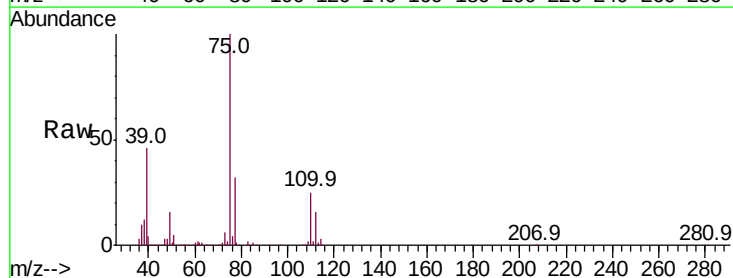
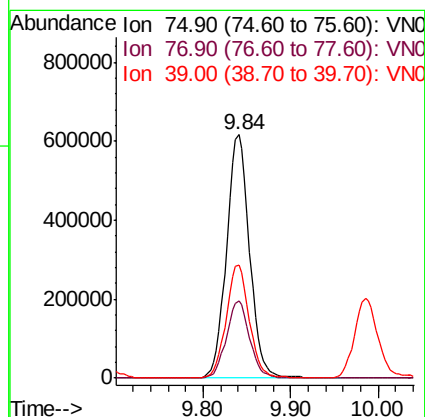
Manual Integrations
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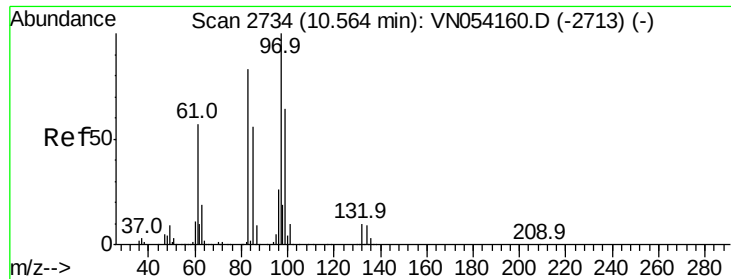
MMDadoda
 3/14/2019 10:28:12 AM



#54
 cis-1,3-Dichloropropene
 Concen: 51.067 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. -0.00 min
 Lab File: VN054227.D
 Acq: 13 Mar 2019 22:15

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.4	38.0
39	46.2	37.2	55.8





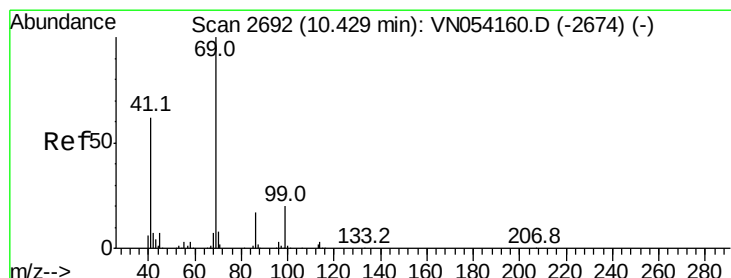
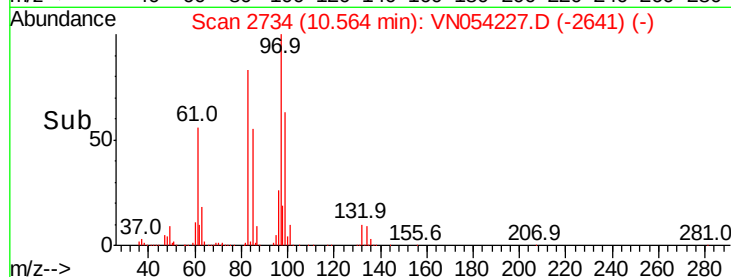
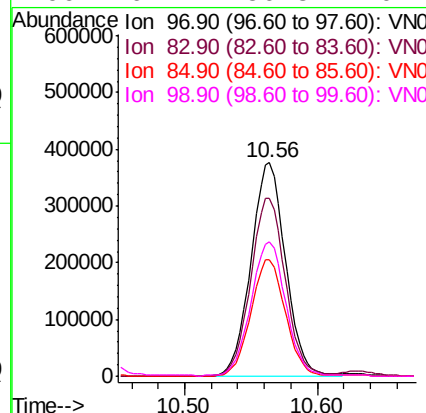
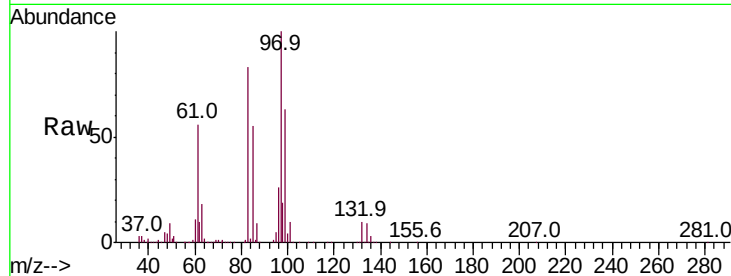
#55
 1,1,2-Trichloroethane
 Concen: 52.437 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. -0.00 min
 Lab File: VN054227.D
 Acq: 13 Mar 2019 22:15

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
97	100		
83	83.3	66.6	100.0
85	54.7	44.4	66.6
99	62.7	50.8	76.2

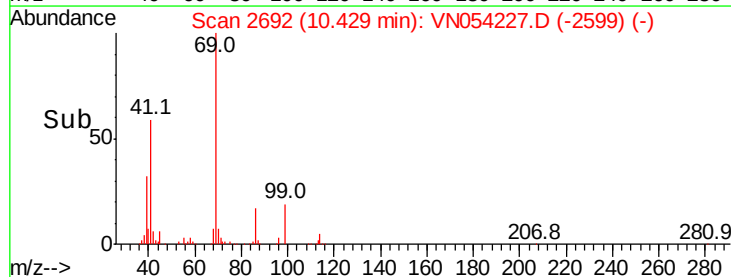
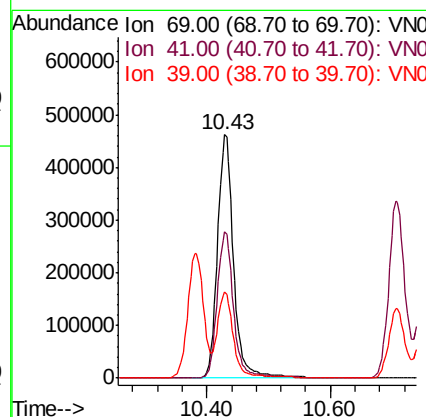
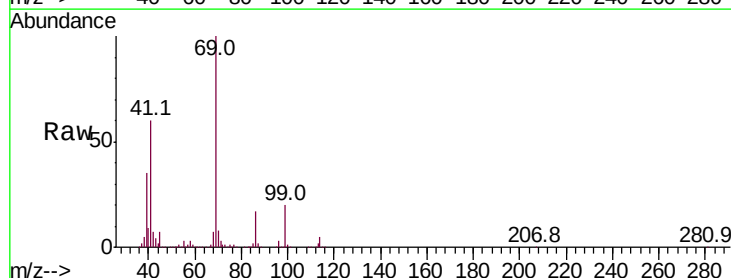
Manual Integrations
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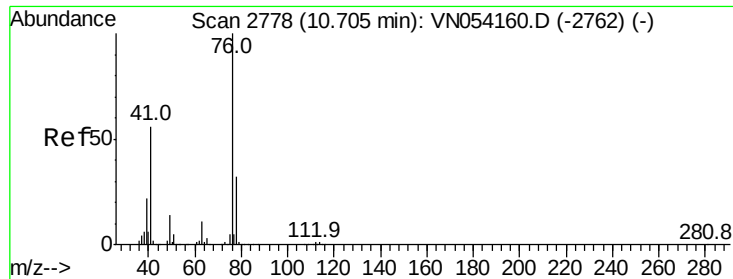
MMDadoda
 3/14/2019 10:28:12 AM



#56
 Ethyl methacrylate
 Concen: 53.516 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. -0.00 min
 Lab File: VN054227.D
 Acq: 13 Mar 2019 22:15

Tgt Ion	Ratio	Lower	Upper
69	100		
41	59.9	49.4	74.2
39	34.4	28.3	42.5





#57

1,3-Dichloropropane

Concen: 52.278 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

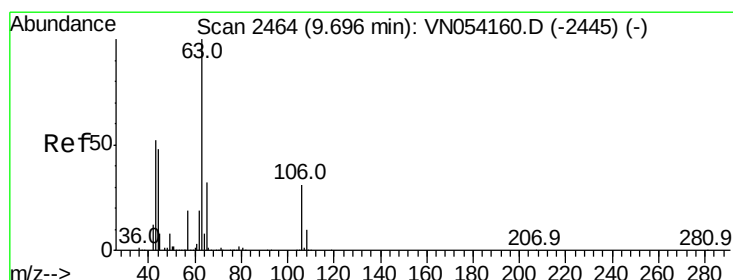
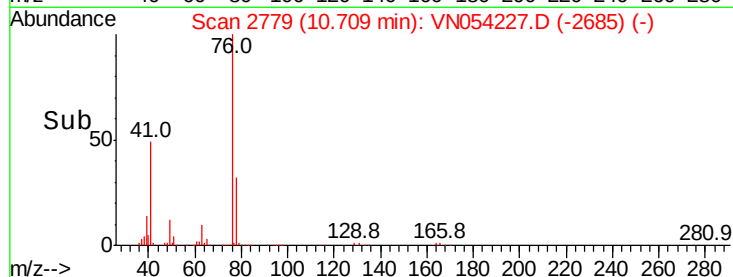
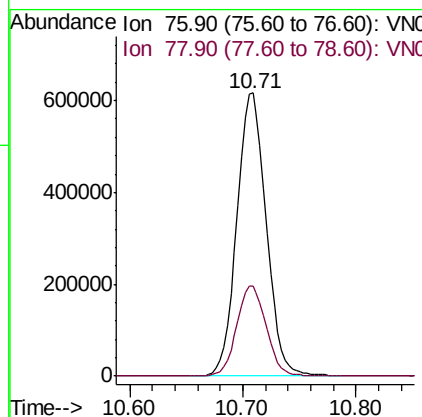
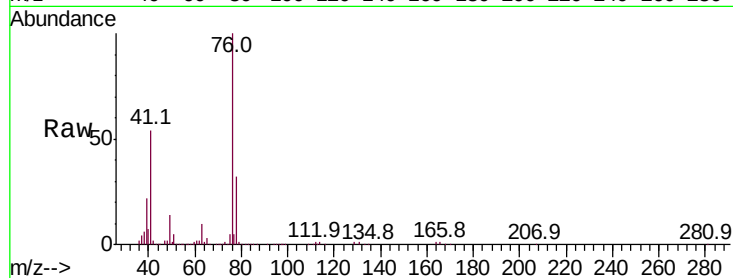
Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion: 76 Resp: 1114609

Ion	Ratio	Lower	Upper
76	100		
78	32.1	25.7	38.5

Manual Integrations
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MMDadoda
3/14/2019 10:28:12 AM



#58

2-Chloroethyl Vinyl ether

Concen: 231.070 ug/l

RT: 9.70 min Scan# 2464

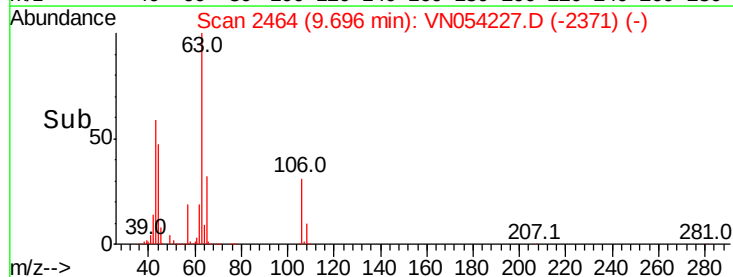
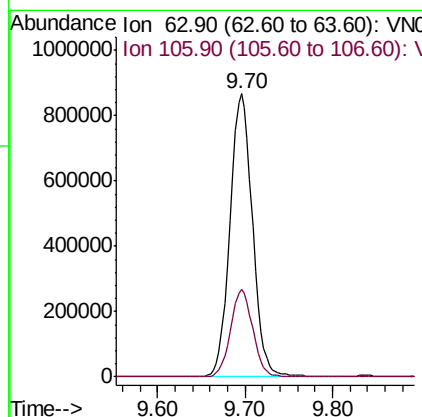
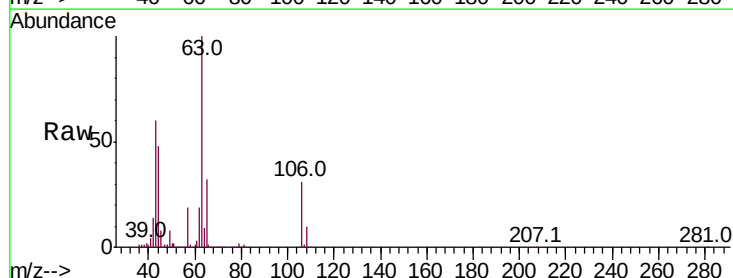
Delta R.T. -0.00 min

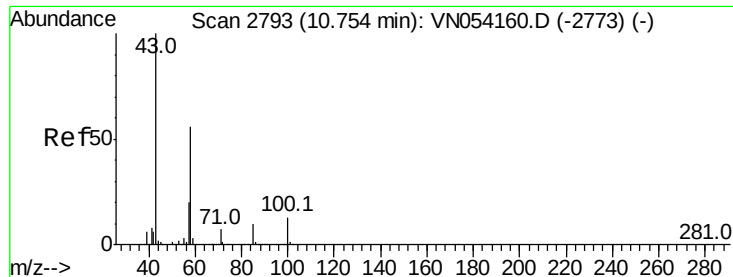
Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

Tgt Ion: 63 Resp: 1549388

Ion	Ratio	Lower	Upper
63	100		
106	30.4	24.4	36.6





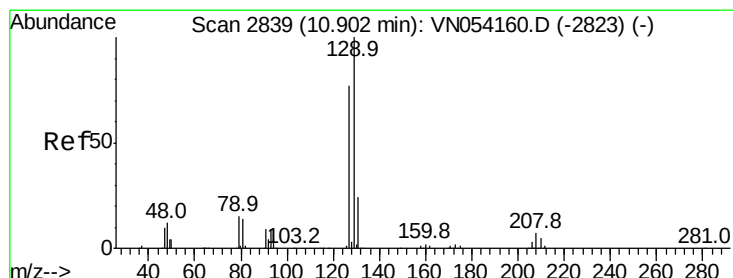
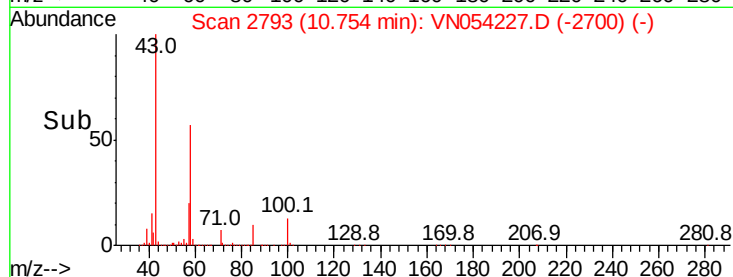
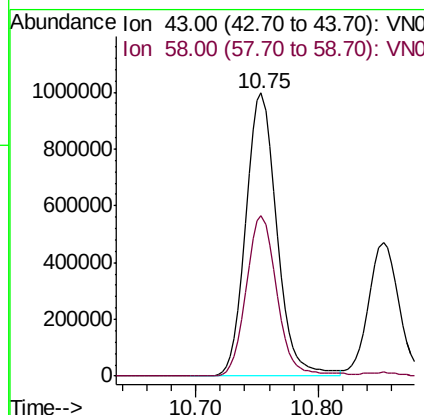
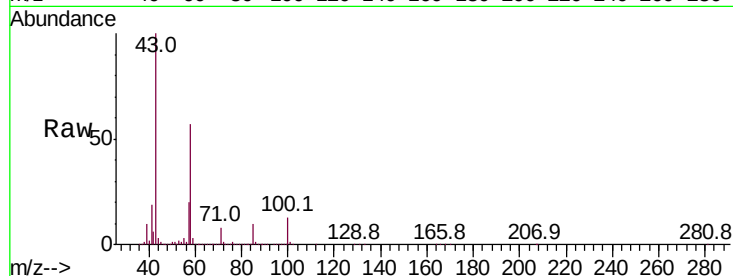
#59
2-Hexanone
Concen: 249.052 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. -0.00 min
Lab File: VN054227.D
Acq: 13 Mar 2019 22:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 1740778
Ion Ratio Lower Upper
43 100
58 56.3 28.0 83.9

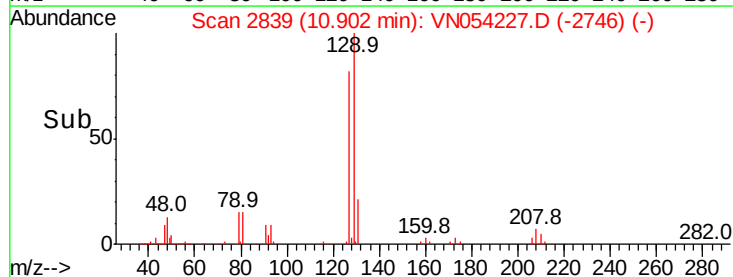
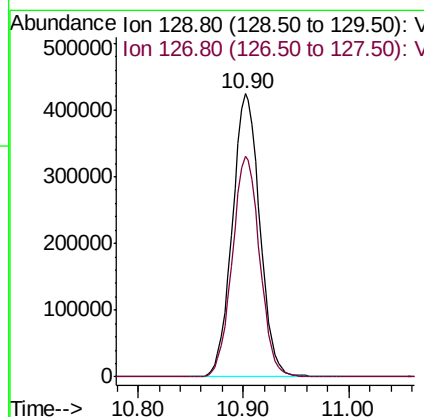
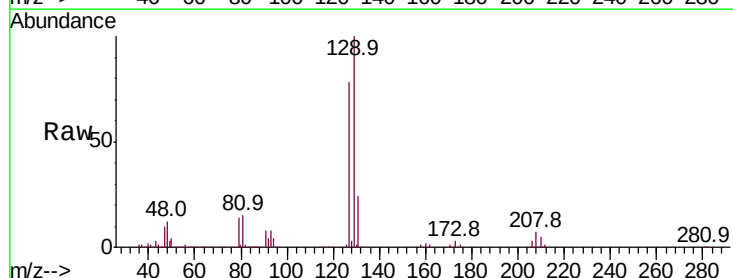
Manual Integrations
APPROVED

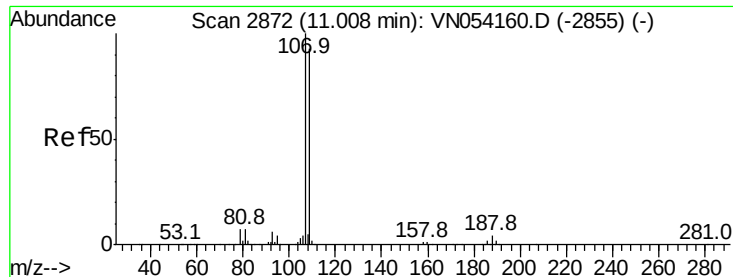
MMDadoda
3/14/2019 10:28:12 AM



#60
Dibromochloromethane
Concen: 52.077 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN054227.D
Acq: 13 Mar 2019 22:15

Tgt Ion: 129 Resp: 764301
Ion Ratio Lower Upper
129 100
127 78.0 38.6 115.8





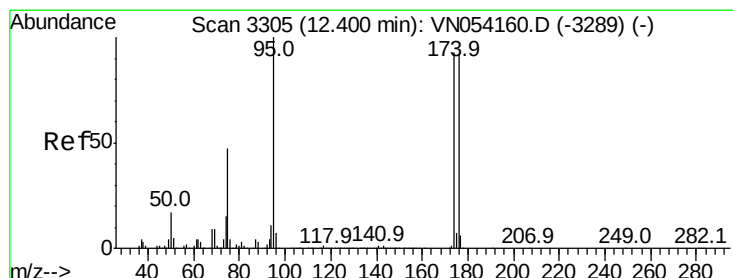
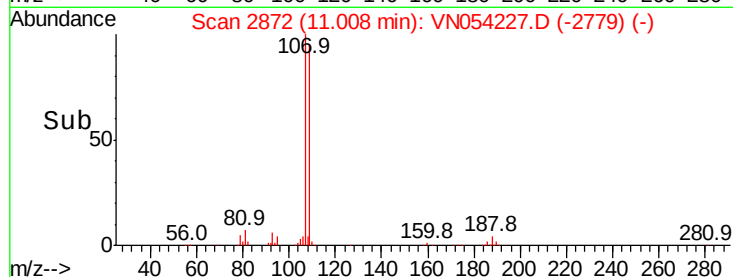
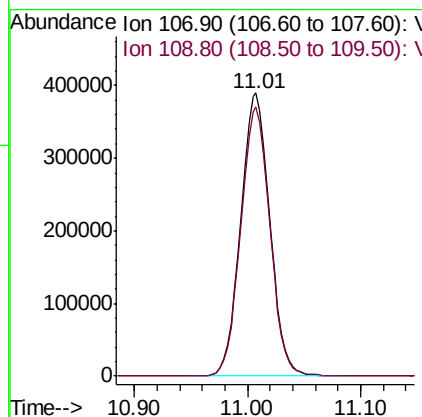
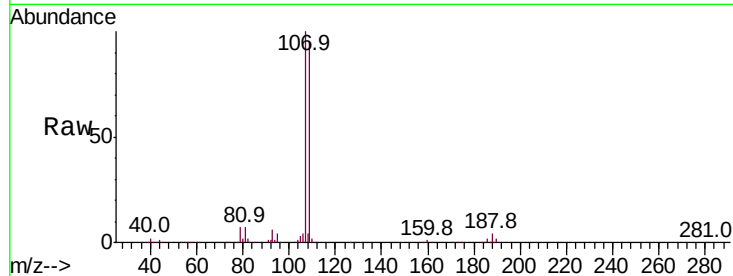
#61
 1,2-Dibromoethane
 Concen: 52.684 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. -0.00 min
 Lab File: VN054227.D
 Acq: 13 Mar 2019 22:15

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.6	75.9	113.9

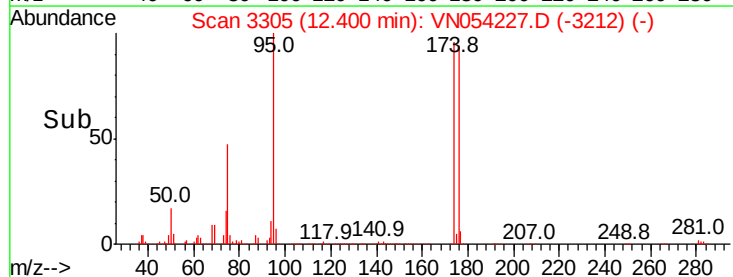
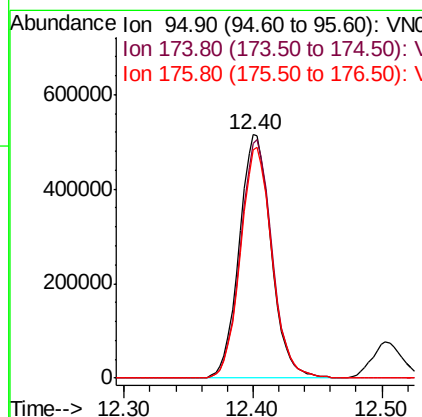
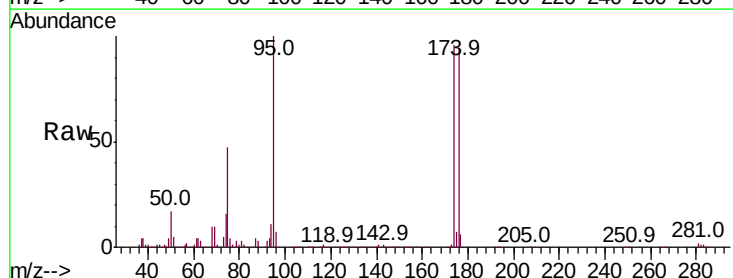
Manual Integrations
 APPROVED

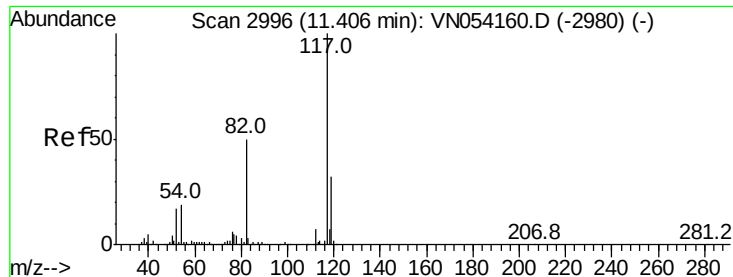
MMDadoda
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#62
 4-Bromofluorobenzene
 Concen: 49.767 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN054227.D
 Acq: 13 Mar 2019 22:15

Tgt Ion	Ratio	Lower	Upper
95	100		
174	97.2	0.0	191.0
176	94.1	0.0	187.4





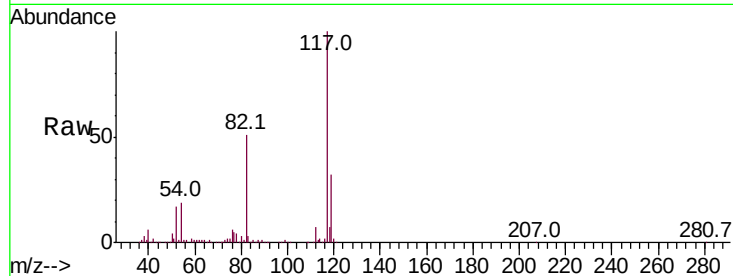
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054227.D
Acq: 13 Mar 2019 22:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	50.5	40.0	60.0
119	32.4	25.8	38.6

Manual Integrations
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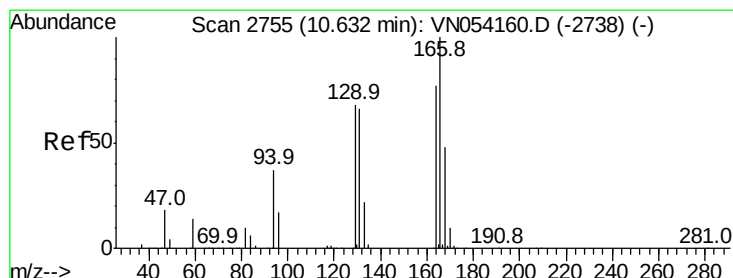
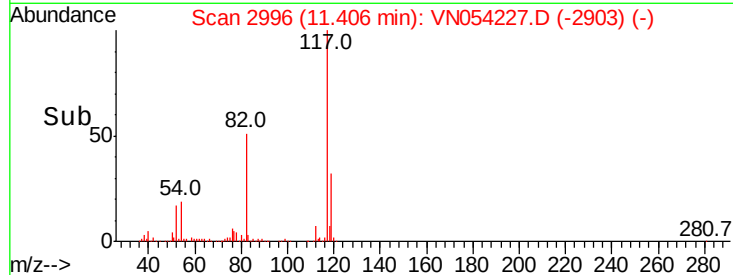
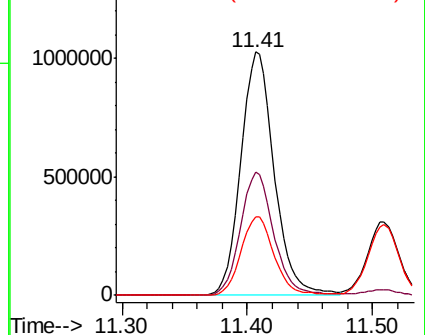


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 48.873 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN054227.D
Acq: 13 Mar 2019 22:15

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.4	103.9	155.9
129	88.3	71.1	106.7
131	85.8	68.2	102.4

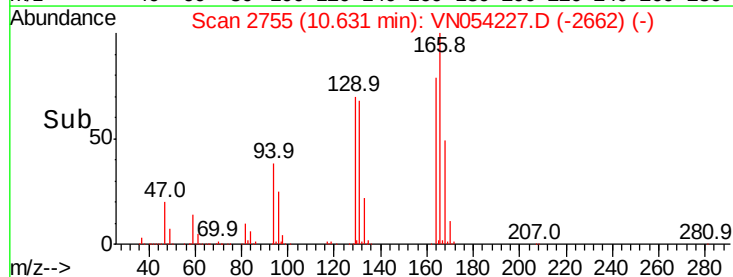
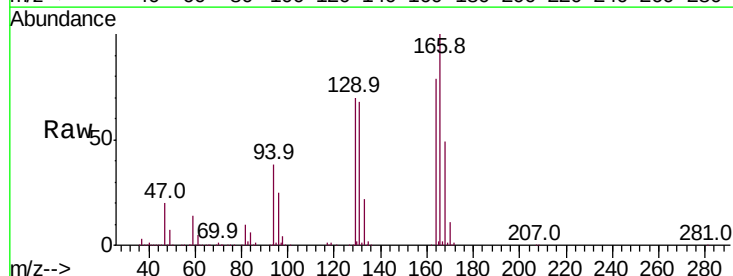
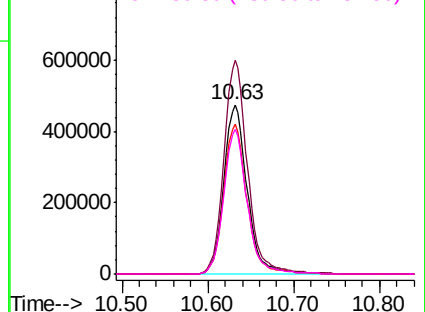
Abundance

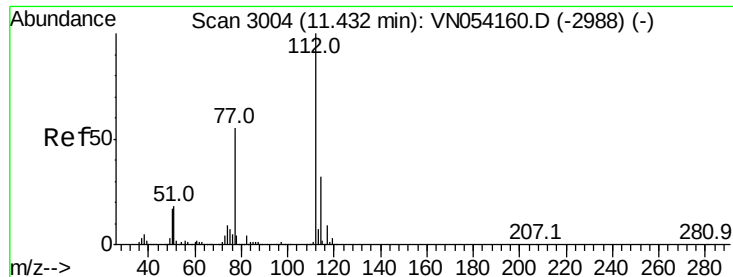
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





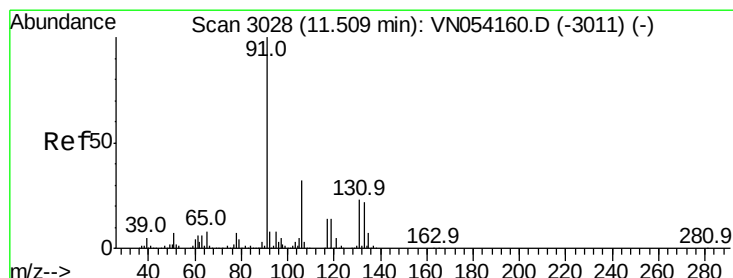
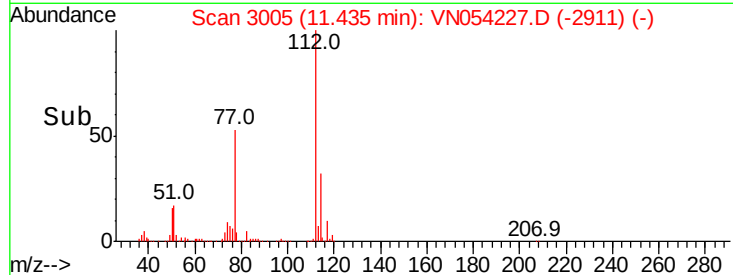
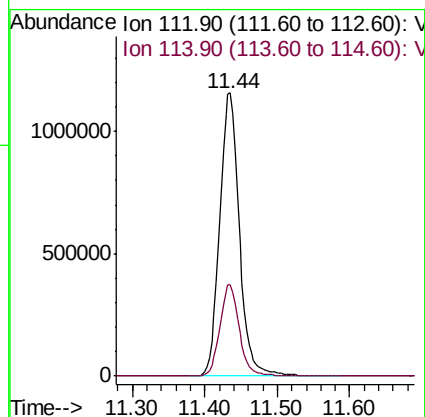
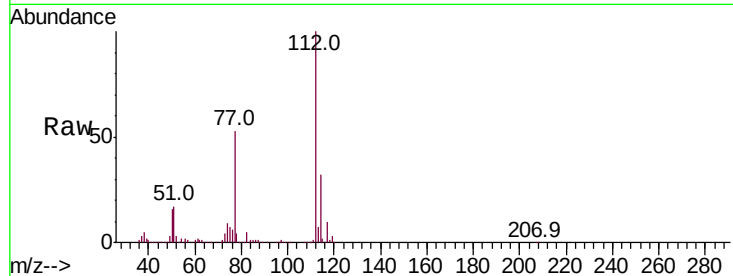
#65
Chlorobenzene
Concen: 51.879 ug/l
RT: 11.44 min Scan# 3005
Delta R.T. 0.00 min
Lab File: VN054227.D
Acq: 13 Mar 2019 22:15

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion:112 Resp: 2170823
Ion Ratio Lower Upper
112 100
114 32.2 25.9 38.9

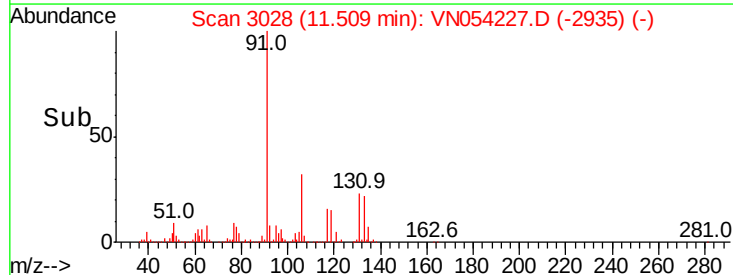
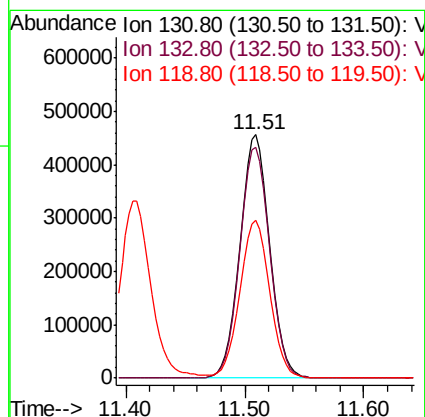
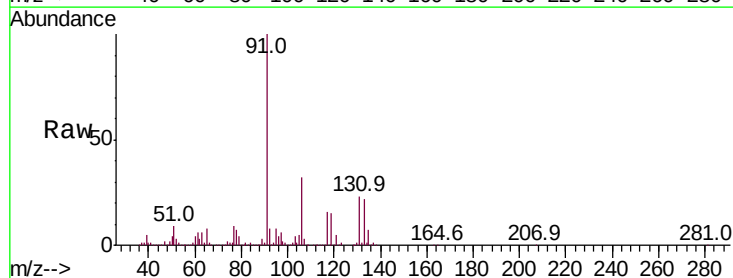
Manual Integrations
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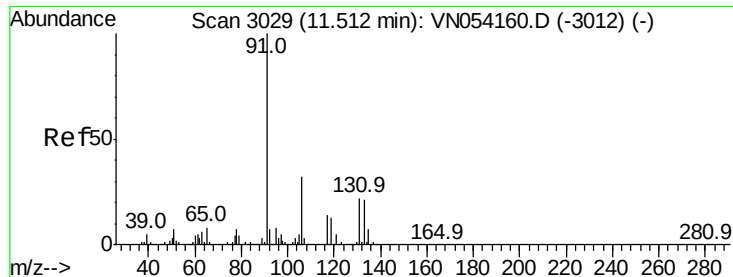
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#66
1,1,1,2-Tetrachloroethane
Concen: 51.828 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN054227.D
Acq: 13 Mar 2019 22:15

Tgt Ion:131 Resp: 787815
Ion Ratio Lower Upper
131 100
133 96.0 47.6 142.9
119 65.7 32.4 97.0





#67

Ethyl Benzene

Concen: 51.180 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. -0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 3549977

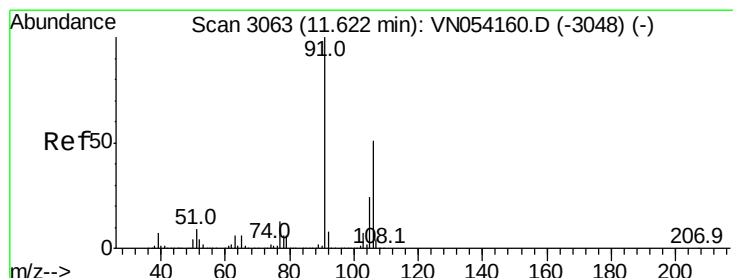
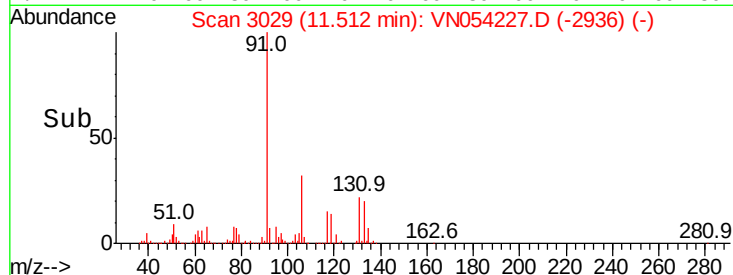
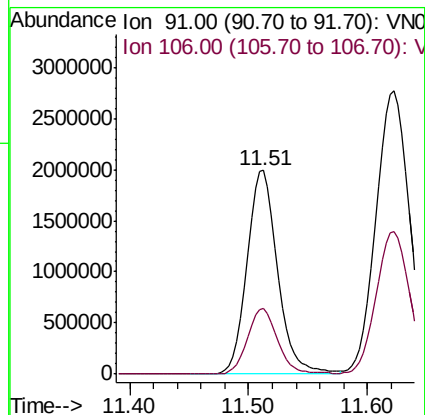
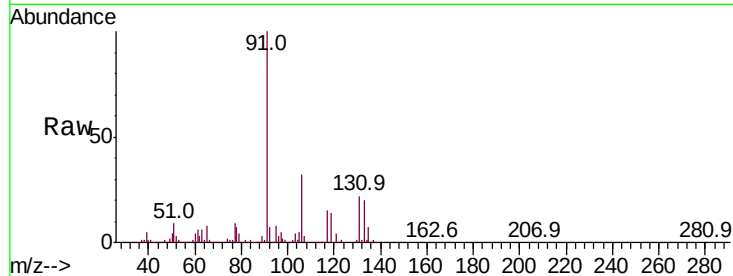
Ion Ratio Lower Upper

91 100

106 32.1 25.5 38.3

Manual Integrations
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#68

m/p-Xylenes

Concen: 103.694 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. -0.00 min

Lab File: VN054227.D

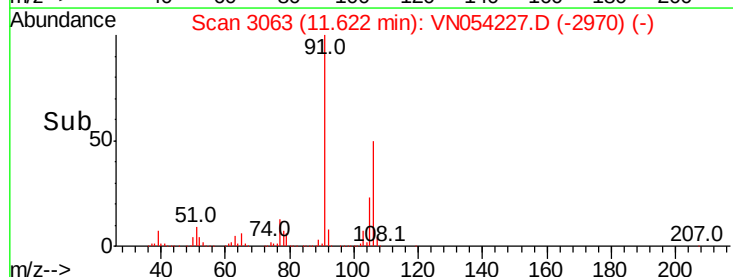
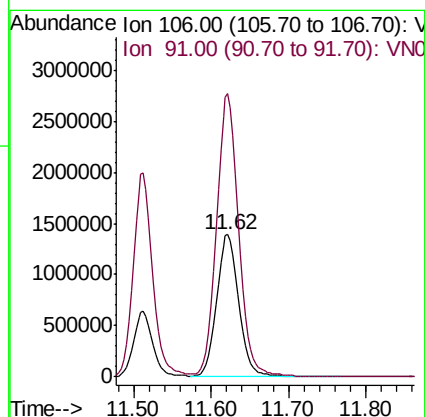
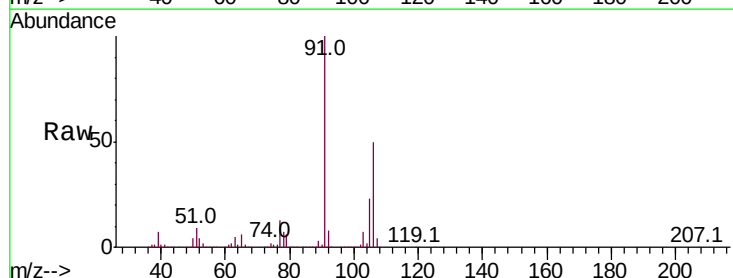
Acq: 13 Mar 2019 22:15

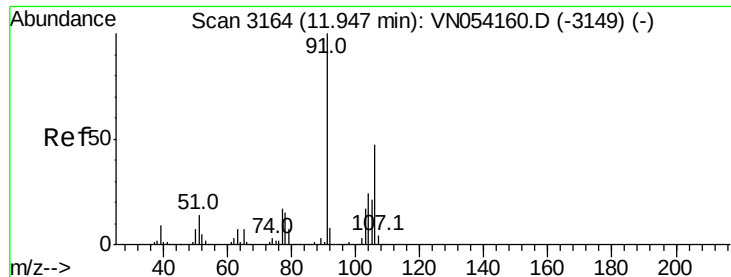
Tgt Ion: 106 Resp: 2811168

Ion Ratio Lower Upper

106 100

91 198.6 159.4 239.2





#69

o-Xylene

Concen: 52.061 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. -0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:106 Resp: 1375868

Ion Ratio Lower Upper

106 100

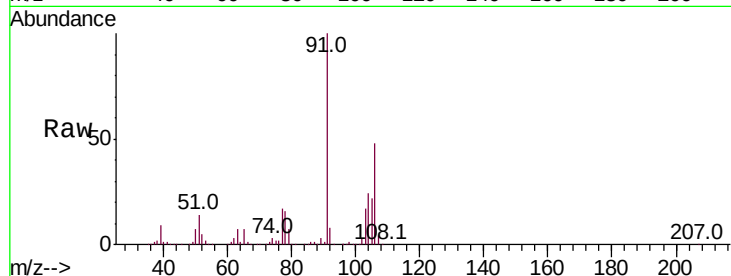
91 210.0 105.7 317.1

Manual Integrations

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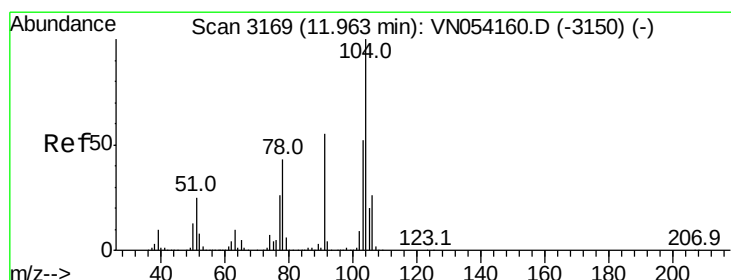
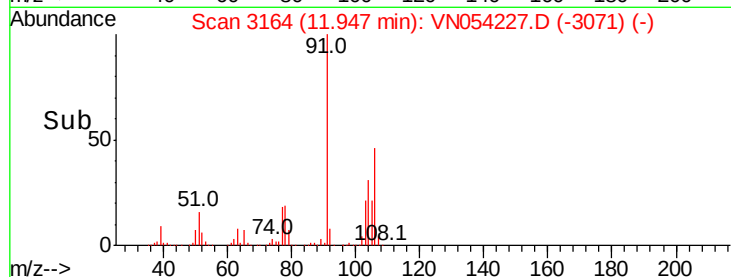
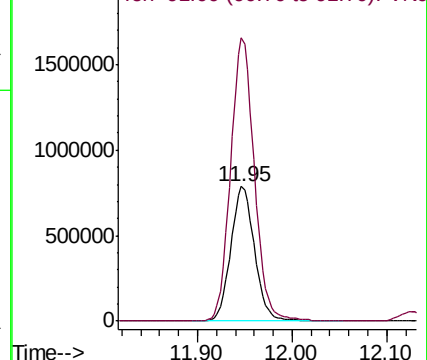
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#70

Styrene

Concen: 52.954 ug/l

RT: 11.96 min Scan# 3169

Delta R.T. -0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

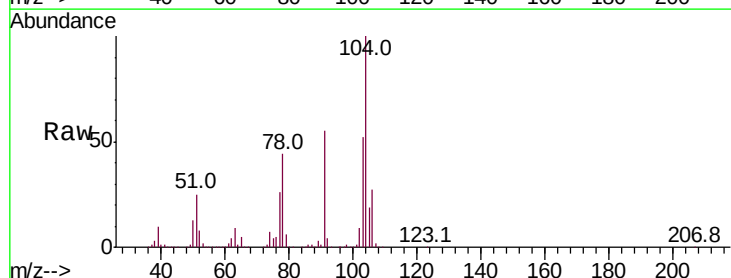
Tgt Ion:104 Resp: 2194836

Ion Ratio Lower Upper

104 100

78 48.1 38.2 57.2

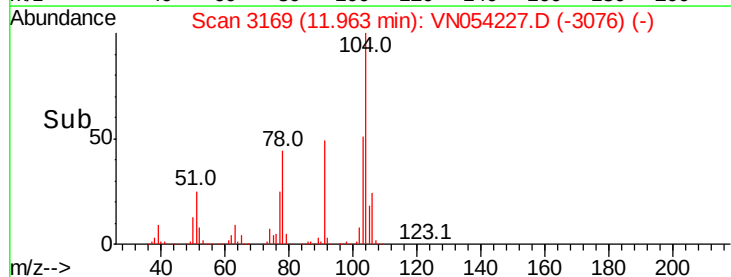
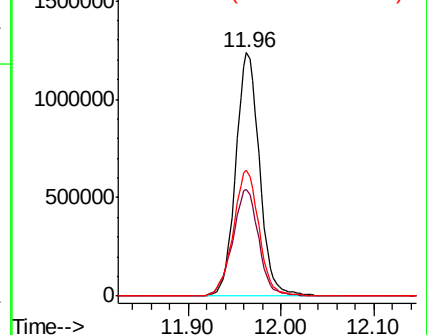
103 56.0 44.4 66.6

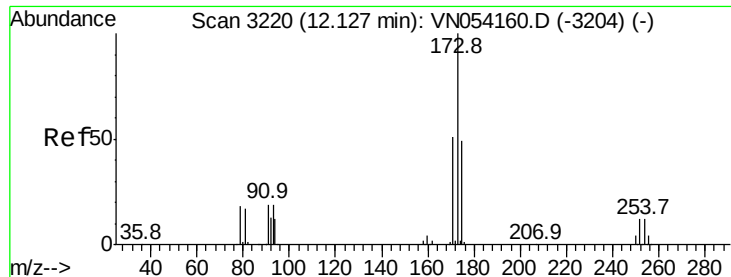


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 44.569 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

Instrument :

MSVOA_N

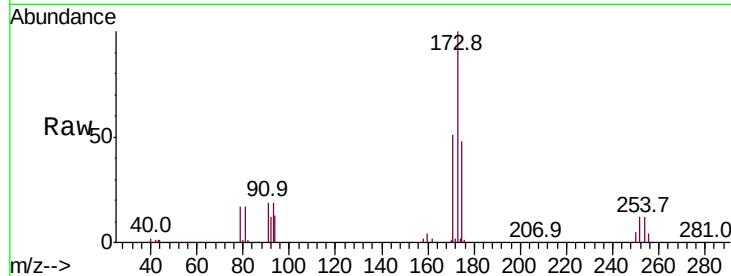
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.1	24.4	73.2
254	0.1	0.1	0.1#

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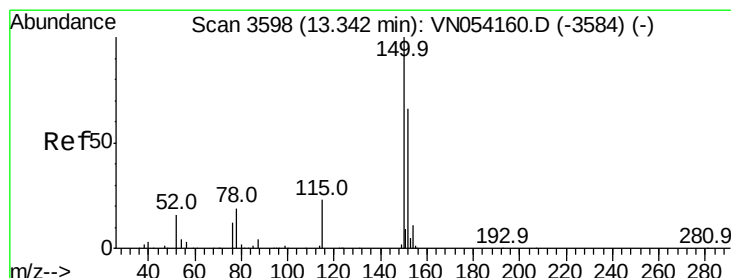
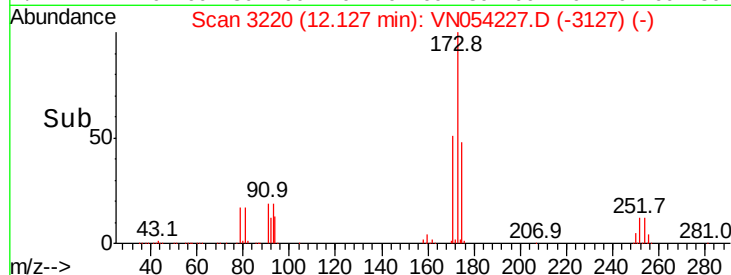
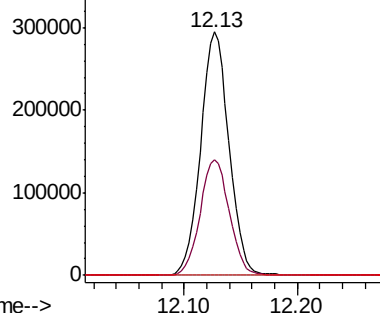
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Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

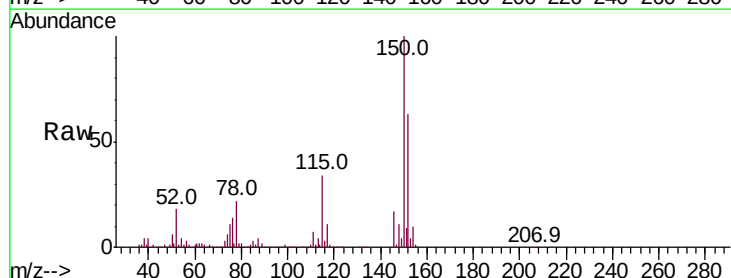
RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

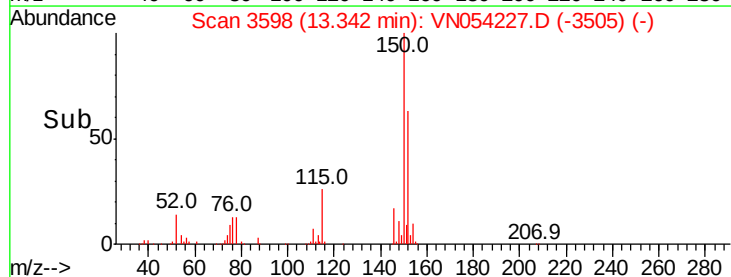
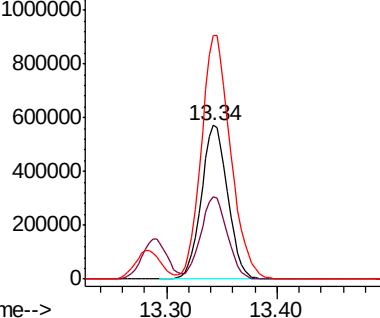
Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.4	27.2	81.6
150	175.5	0.0	349.2

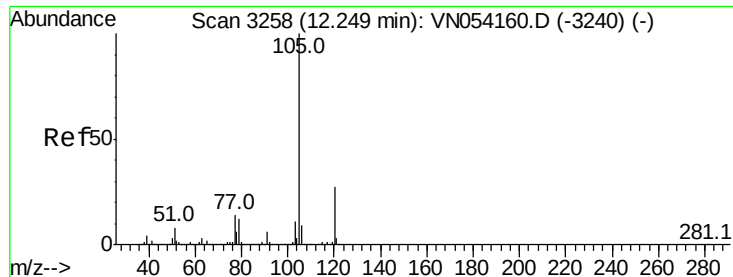


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 48.307 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 3654189

Ion Ratio Lower Upper

105 100

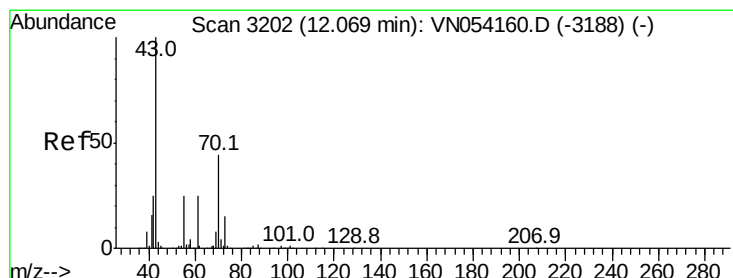
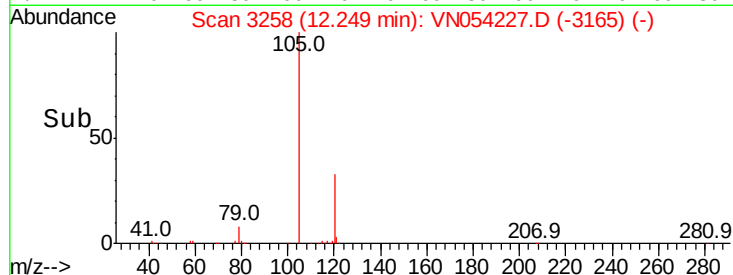
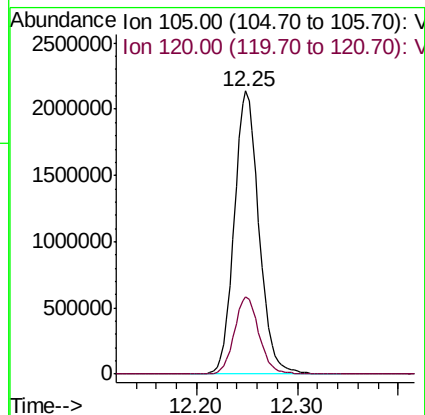
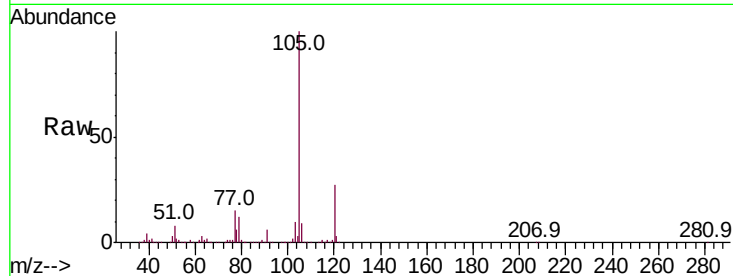
120 27.3 13.8 41.3

Manual Integrations

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#74

N-ethyl acetate

Concen: 49.292 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

Tgt Ion: 43 Resp: 827646

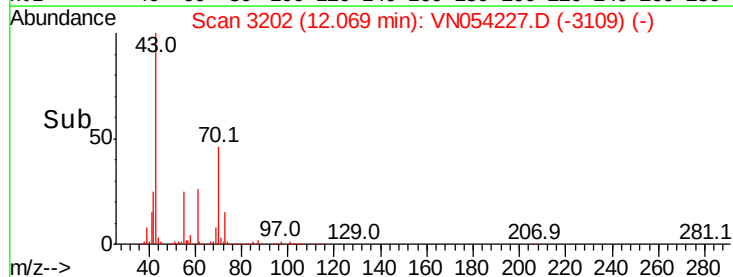
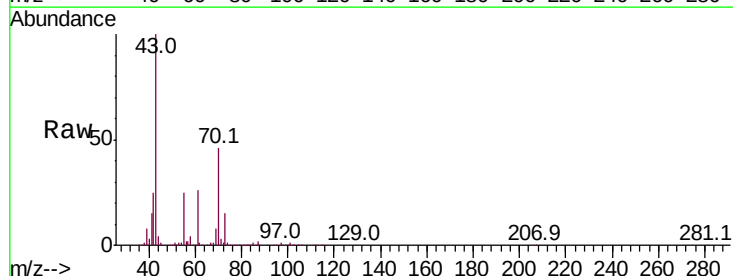
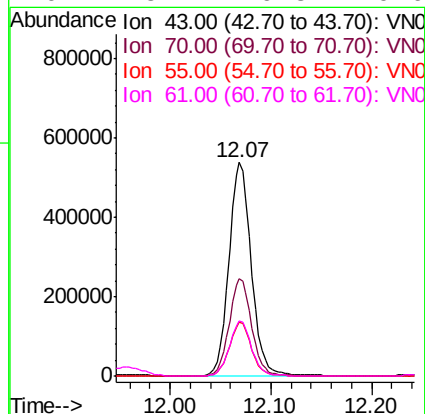
Ion Ratio Lower Upper

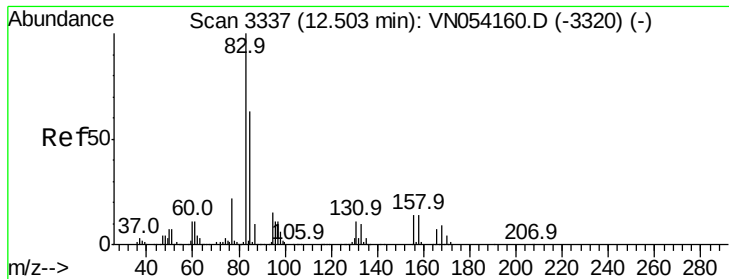
43 100

70 46.2 35.4 53.0

55 25.2 19.8 29.6

61 25.7 19.8 29.6





#75

1,1,2,2-Tetrachloroethane

Concen: 49.033 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

Instrument :

MSVOA_N

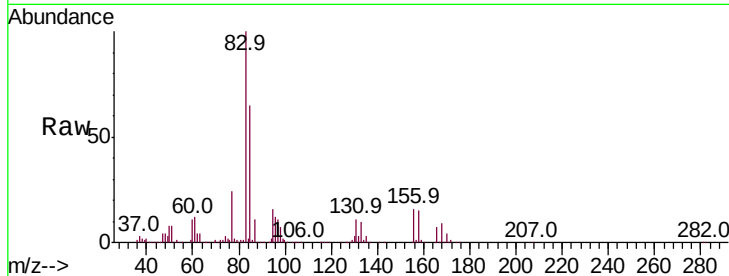
ClientSampleId :

VSTDCCC050

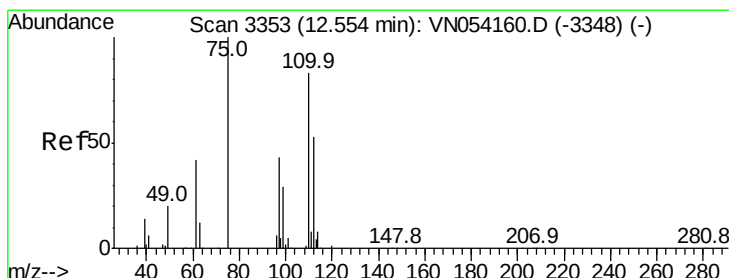
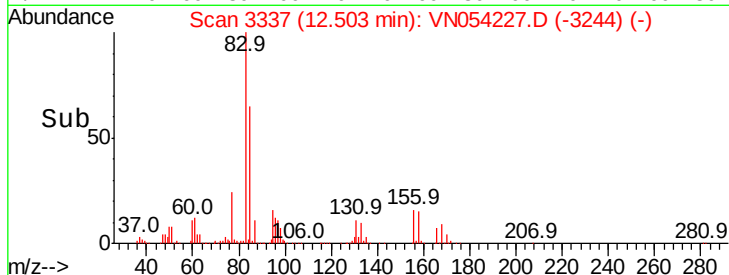
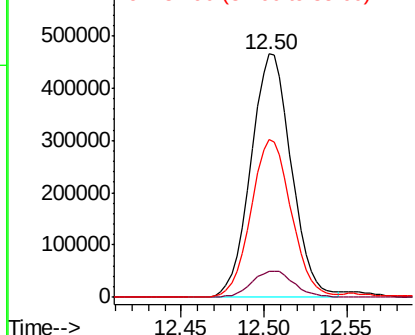
Tot Ion:	83	Resp:	790257
Ion Ratio	Lower	Upper	
83	100		
131	11.4	5.8	17.4
85	64.4	32.2	96.6

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



#76

1,2,3-Trichloropropane

Concen: 47.223 ug/l m

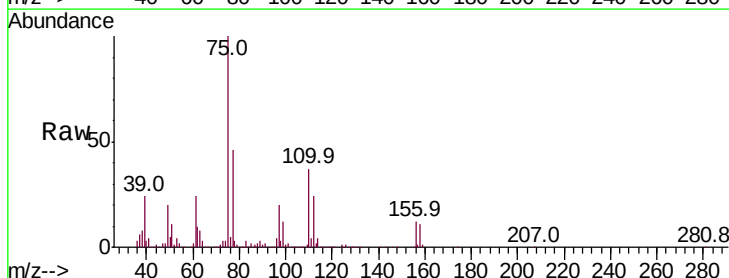
RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

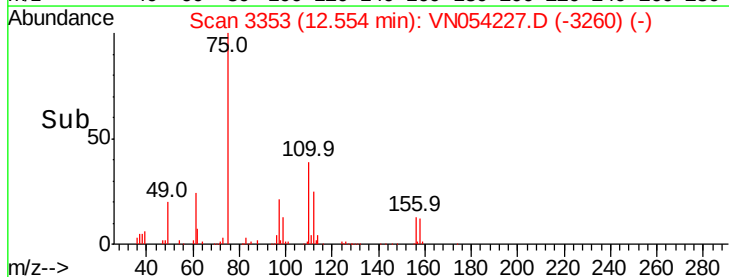
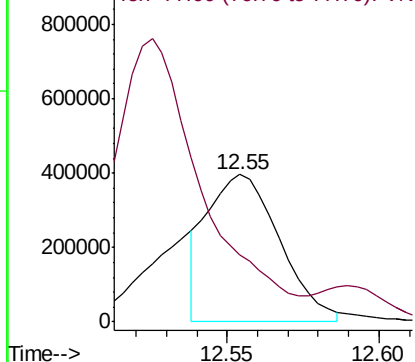
Lab File: VN054227.D

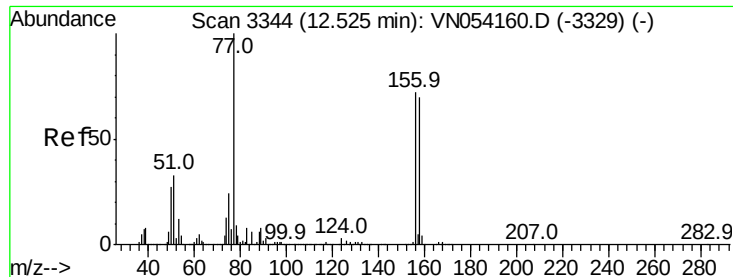
Acq: 13 Mar 2019 22:15

Tgt Ion:	75	Resp:	656592
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



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





#77

Bromobenzene

Concen: 49.459 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

Instrument :

MSVOA_N

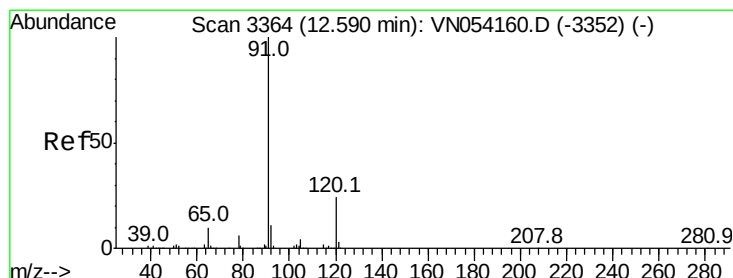
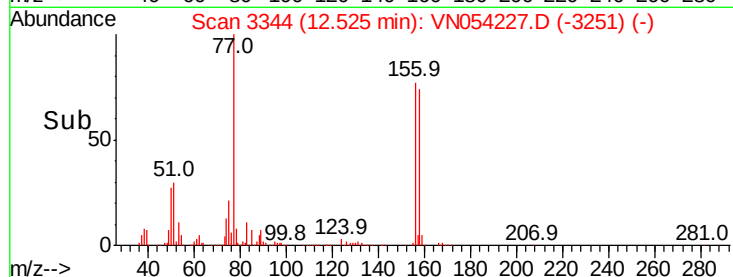
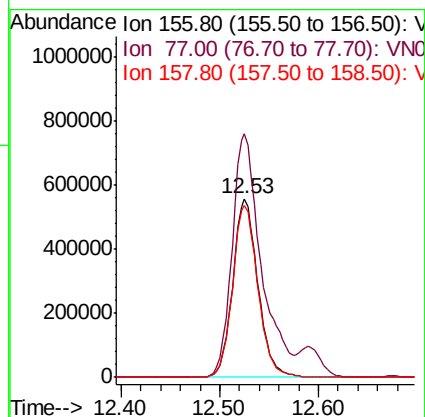
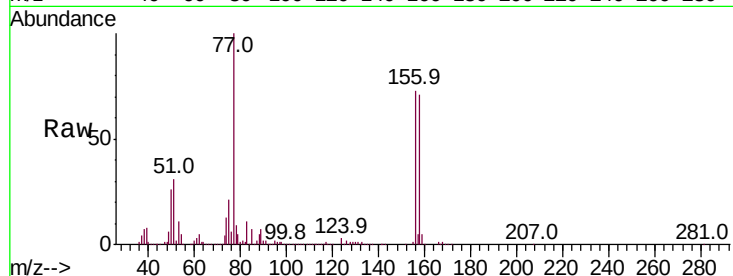
ClientSampleId :

VSTDCCC050

Tot Ion:	156	Resp:	990027
Ion Ratio	Lower	Upper	
156	100		
77	159.3	81.5	244.4
158	97.1	49.0	147.2

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#78

n-propylbenzene

Concen: 49.062 ug/l

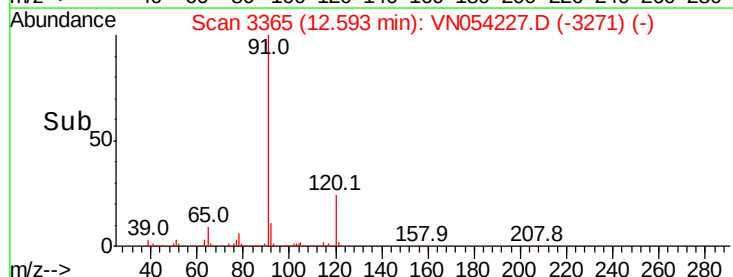
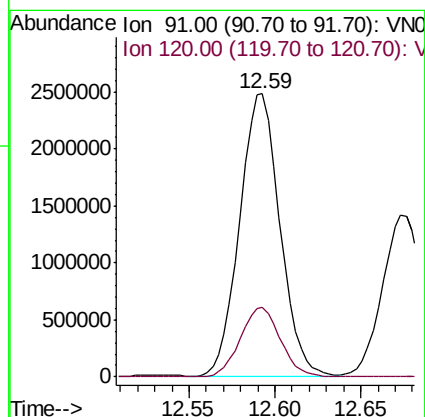
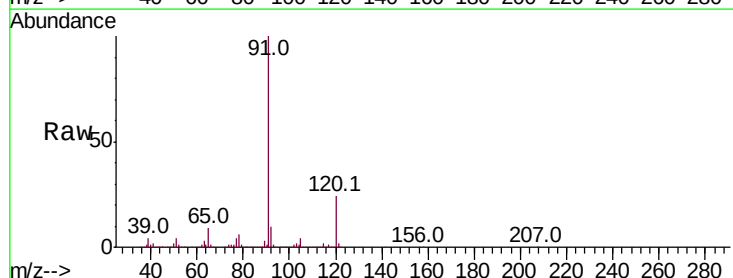
RT: 12.59 min Scan# 3365

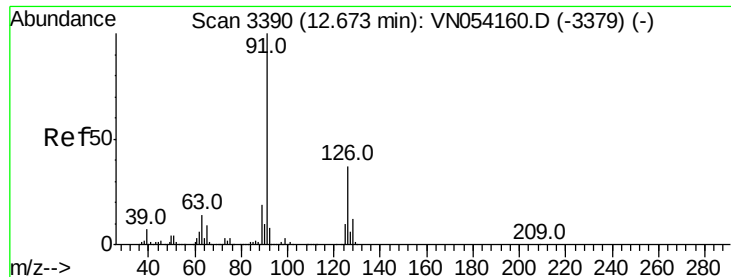
Delta R.T. 0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

Tgt Ion:	91	Resp:	4027028
Ion Ratio	Lower	Upper	
91	100		
120	24.6	12.3	36.9





#79

2-Chlorotoluene

Concen: 48.485 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 2392847

Ion Ratio Lower Upper

91 100

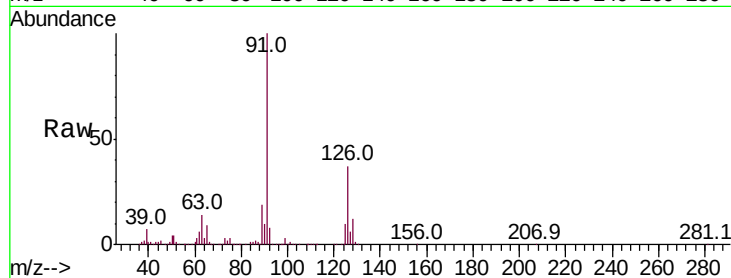
126 37.7 18.7 56.1

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN054160.D (-3379) (-)

Ion 125.90 (125.60 to 126.60): VN054160.D (-3379) (-)

12.67

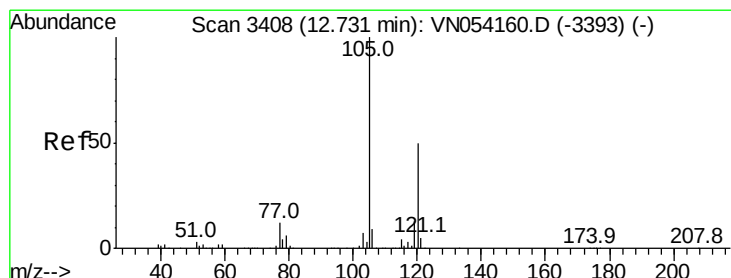
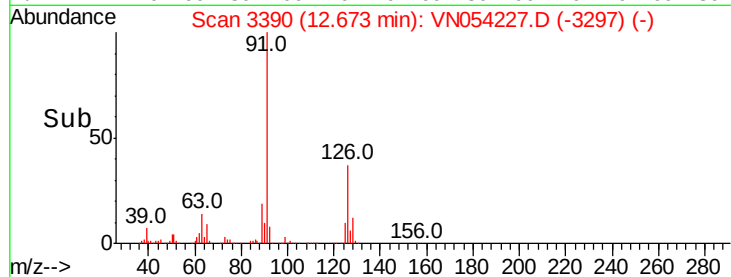
1500000

1000000

500000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 48.444 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN054227.D

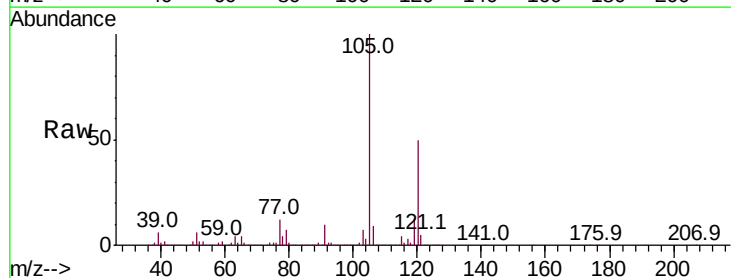
Acq: 13 Mar 2019 22:15

Tgt Ion:105 Resp: 3048154

Ion Ratio Lower Upper

105 100

120 50.2 25.0 75.0



Abundance Ion 105.00 (104.70 to 105.70): VN054160.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN054160.D (-3393) (-)

12.73

2000000

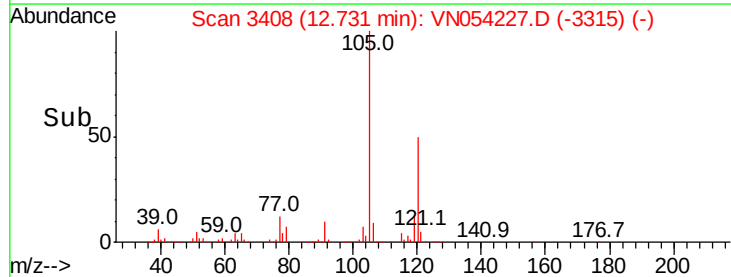
1500000

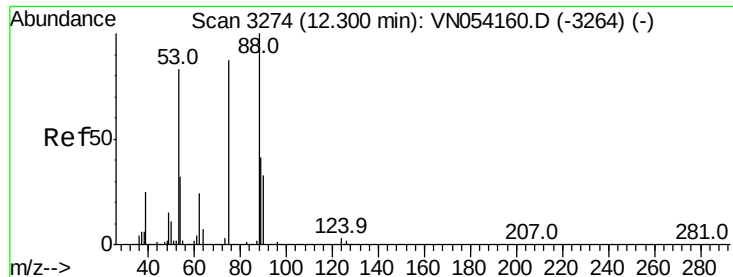
1000000

500000

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 41.901 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

Instrument :

MSVOA_N

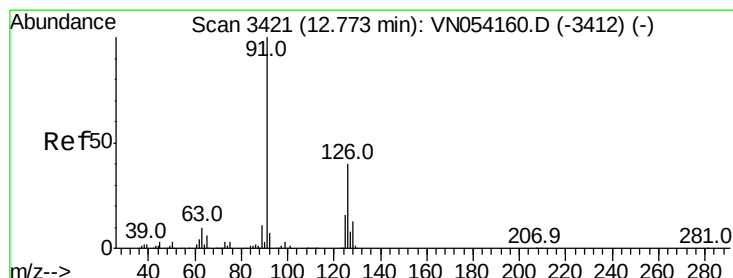
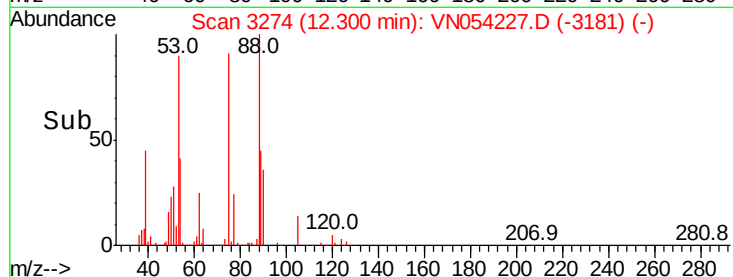
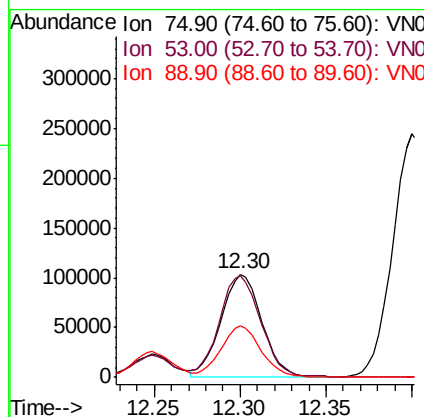
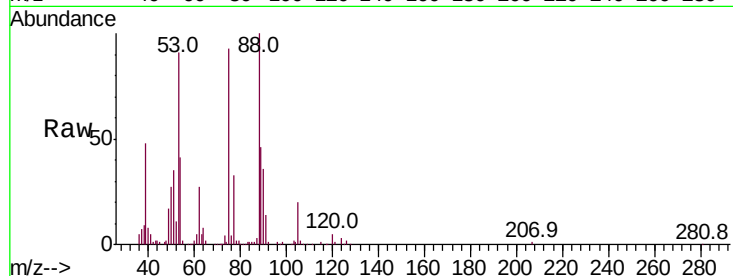
ClientSampleId :

VSTDCCC050

Tot Ion:	75	Resp:	170425
Ion	Ratio	Lower	Upper
75	100		
53	101.7	76.2	114.2
89	49.2	39.2	58.8

Manual Integrations
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#82

4-Chlorotoluene

Concen: 49.349 ug/l

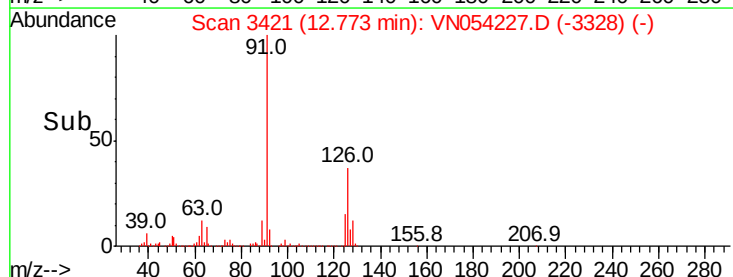
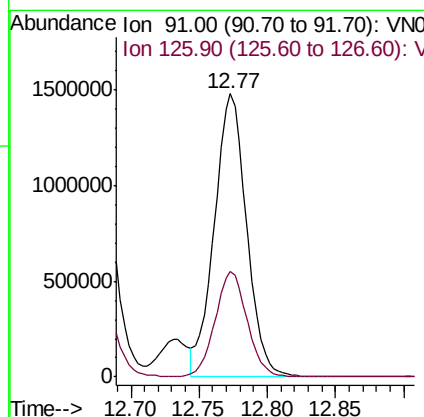
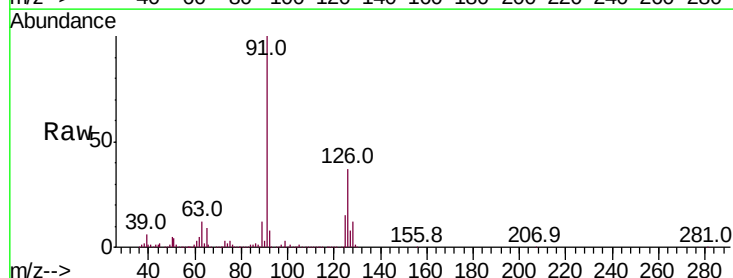
RT: 12.77 min Scan# 3421

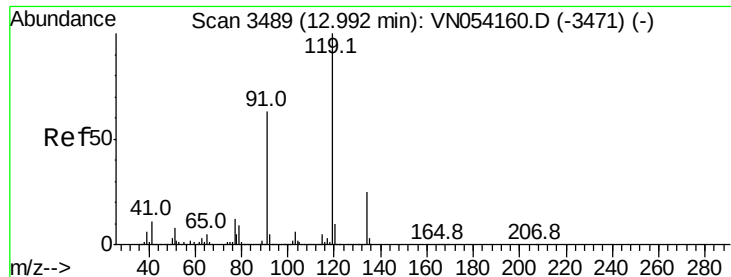
Delta R.T. -0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

Tgt Ion:	91	Resp:	2431929
Ion	Ratio	Lower	Upper
91	100		
126	36.8	18.1	54.1





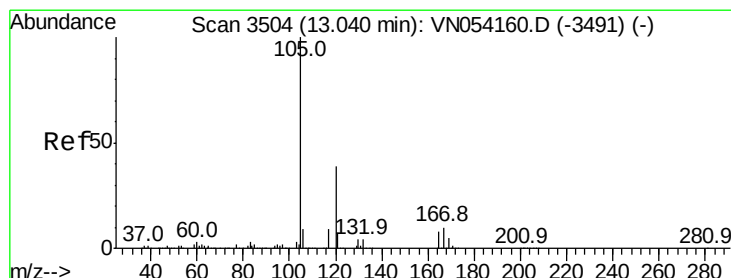
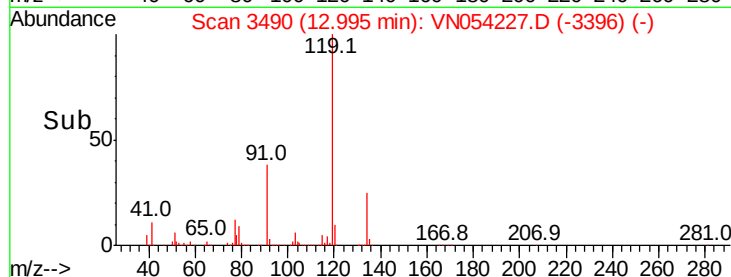
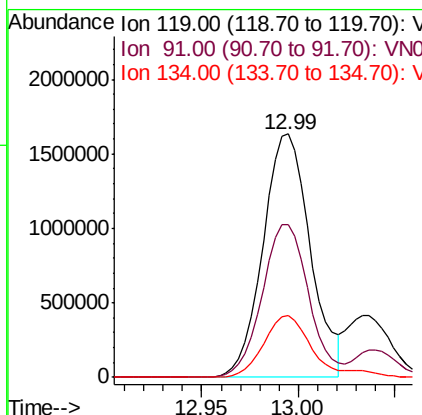
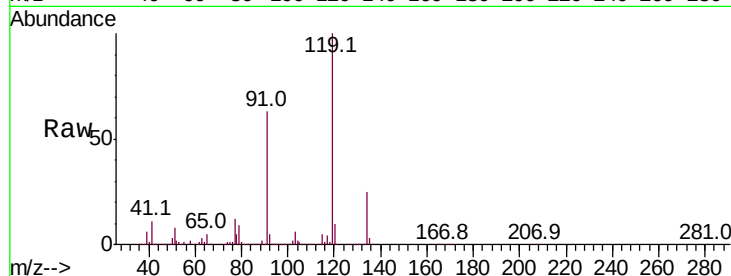
#83
 tert-Butylbenzene
 Concen: 48.047 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN054227.D
 Acq: 13 Mar 2019 22:15

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion:119 Resp: 2782669
 Ion Ratio Lower Upper
 119 100
 91 61.9 30.9 92.8
 134 26.6 13.2 39.6

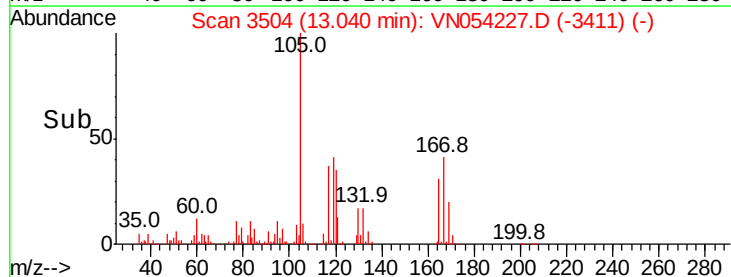
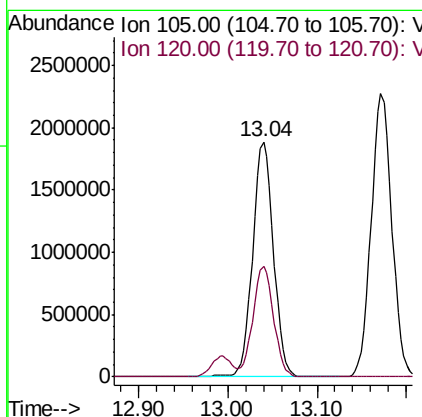
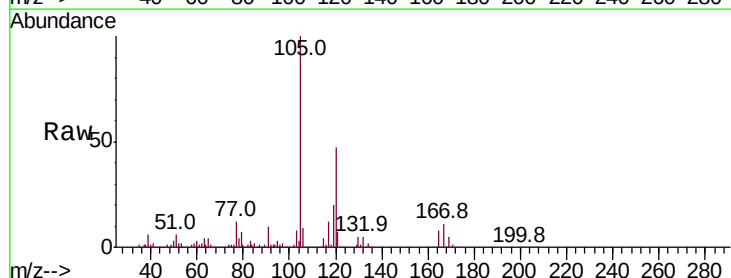
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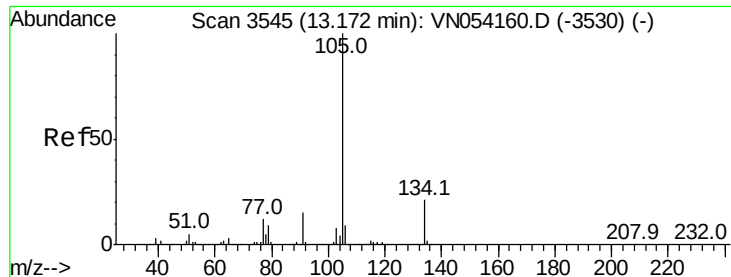
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#84
 1,2,4-Trimethylbenzene
 Concen: 49.734 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN054227.D
 Acq: 13 Mar 2019 22:15

Tgt Ion:105 Resp: 3070012
 Ion Ratio Lower Upper
 105 100
 120 47.0 23.4 70.3





#85

sec-Butylbenzene

Concen: 48.440 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 3638256

Ion Ratio Lower Upper

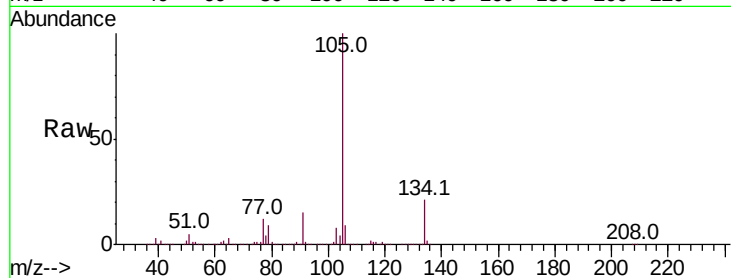
105 100

134 21.1 10.7 32.1

Manual Integrations
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

2500000

2000000

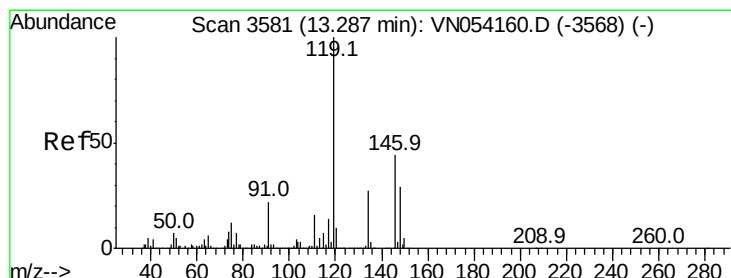
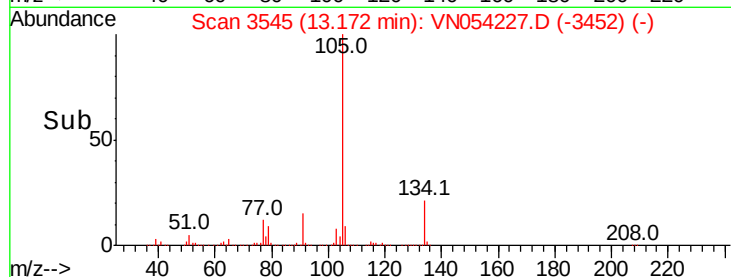
1500000

1000000

500000

0

Time-->



#86

p-Isopropyltoluene

Concen: 49.055 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

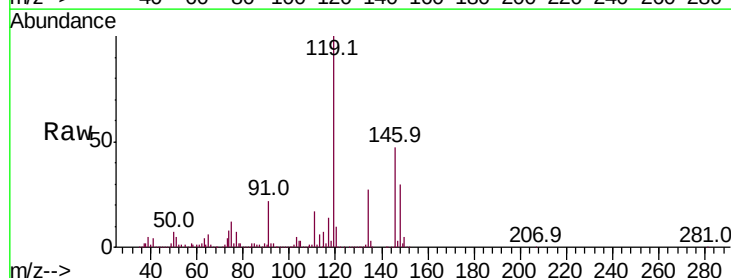
Tgt Ion:119 Resp: 3232319

Ion Ratio Lower Upper

119 100

134 27.3 13.6 40.8

91 21.9 11.1 33.3



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

2500000

2000000

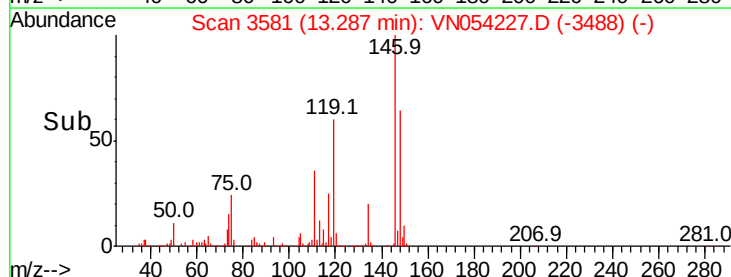
1500000

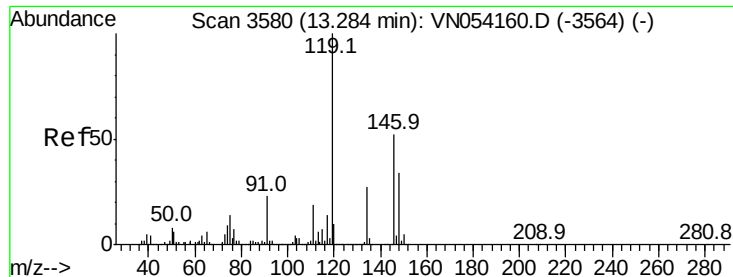
1000000

500000

0

Time-->





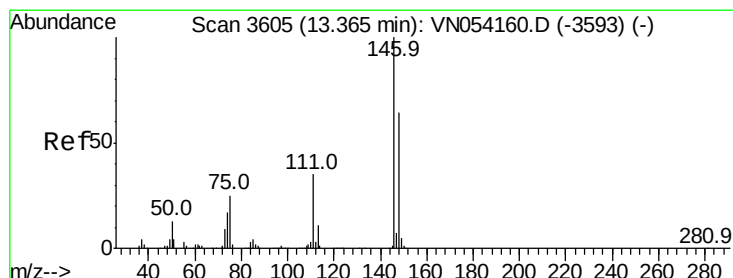
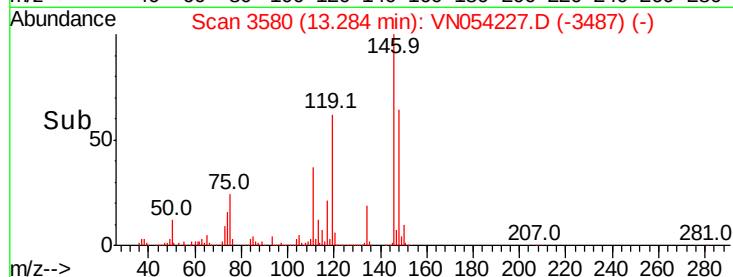
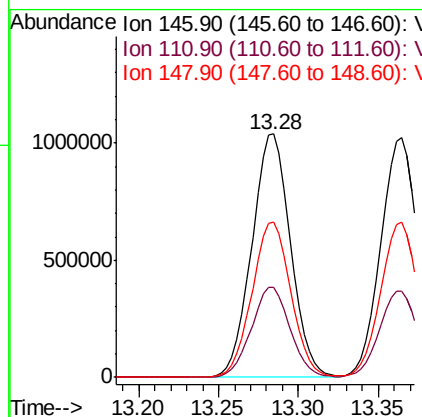
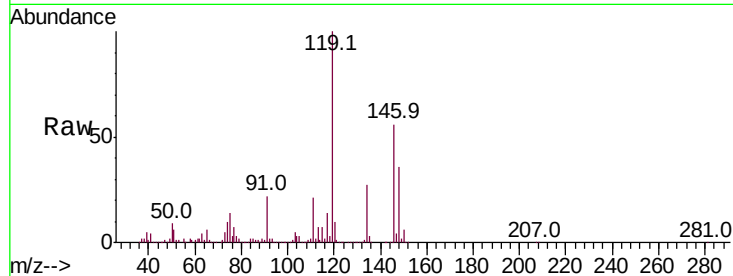
#87
 1,3-Dichlorobenzene
 Concen: 51.250 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.00 min
 Lab File: VN054227.D
 Acq: 13 Mar 2019 22:15

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.1	18.8	56.3
148	64.3	32.2	96.6

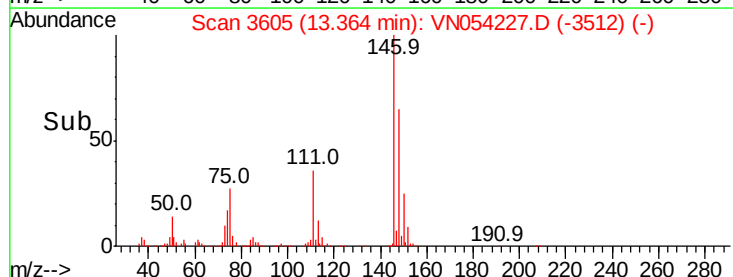
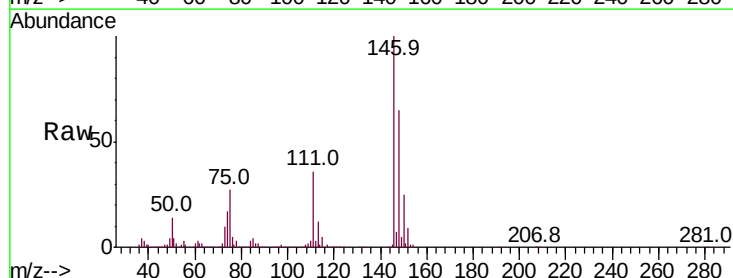
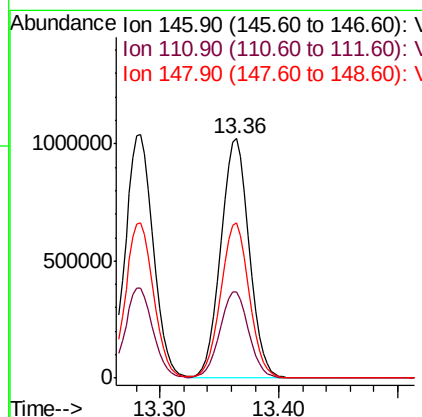
Manual Integrations
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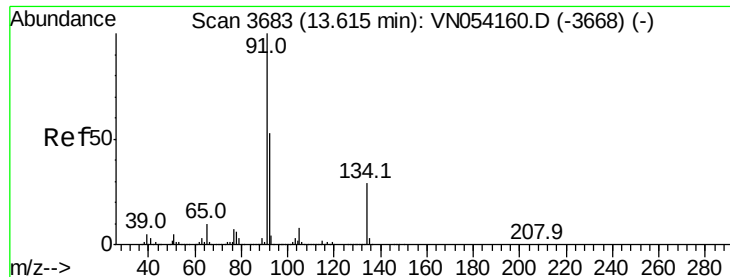
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#88
 1,4-Dichlorobenzene
 Concen: 50.888 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. -0.00 min
 Lab File: VN054227.D
 Acq: 13 Mar 2019 22:15

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.6	18.1	54.1
148	64.7	32.0	96.0





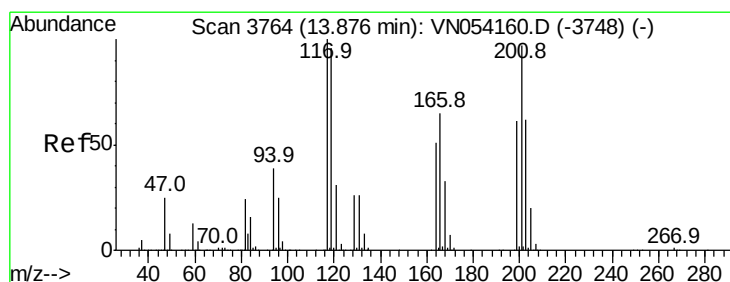
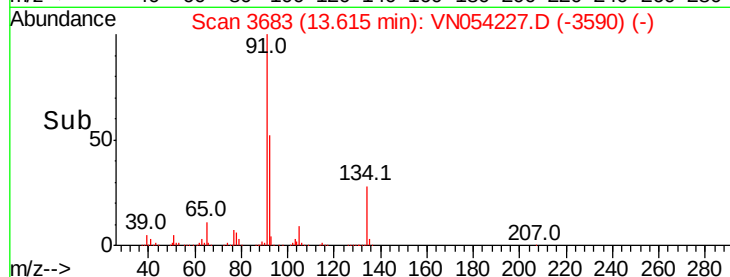
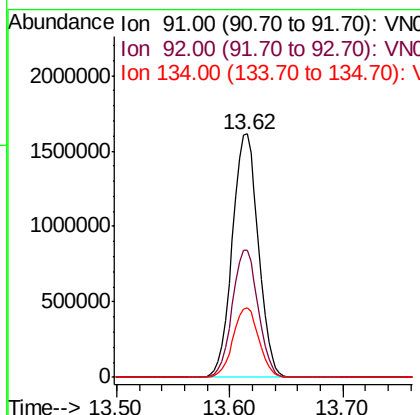
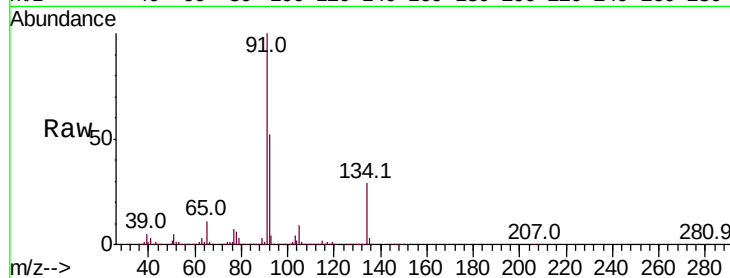
#89
n-Butylbenzene
Concen: 51.551 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN054227.D
Acq: 13 Mar 2019 22:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.1	26.2	78.6
134	28.4	14.3	42.9

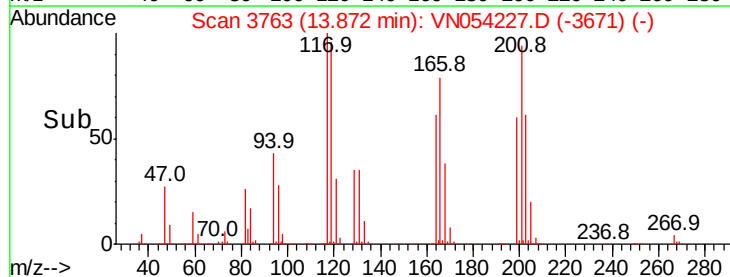
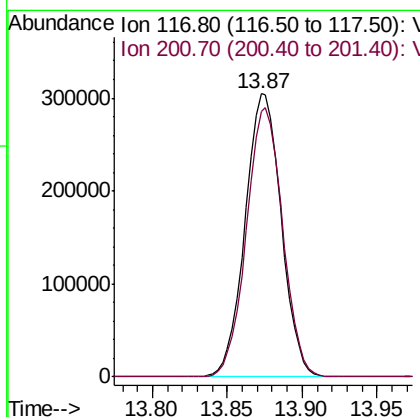
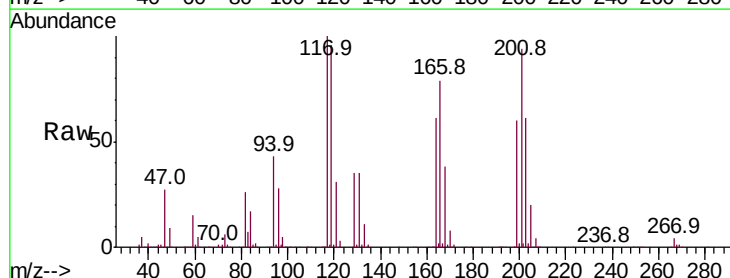
Manual Integrations
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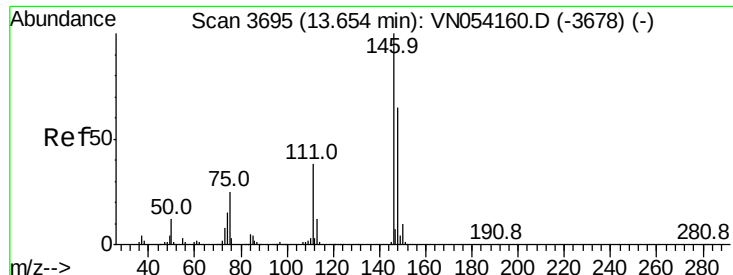
MMDadoda
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#90
Hexachloroethane
Concen: 46.930 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN054227.D
Acq: 13 Mar 2019 22:15

Tgt Ion	Ratio	Lower	Upper
117	100		
201	95.2	48.1	144.4





#91

1,2-Dichlorobenzene

Concen: 51.336 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. -0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

Instrument :

MSVOA_N

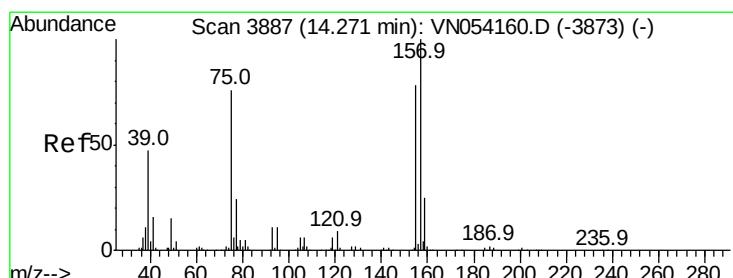
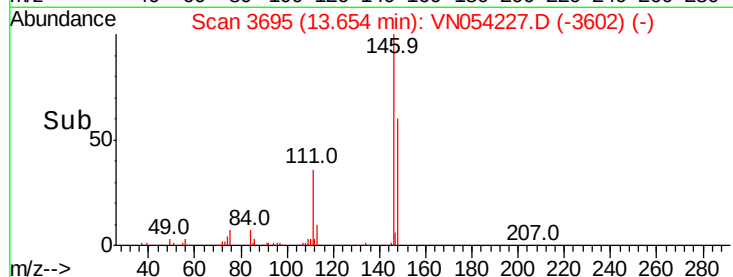
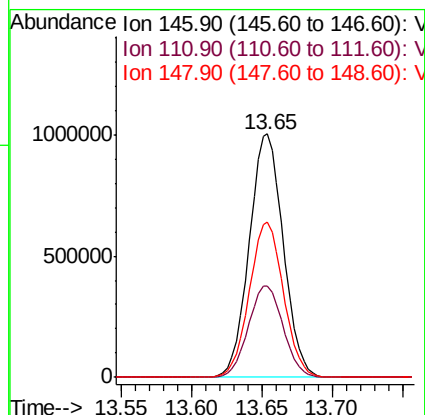
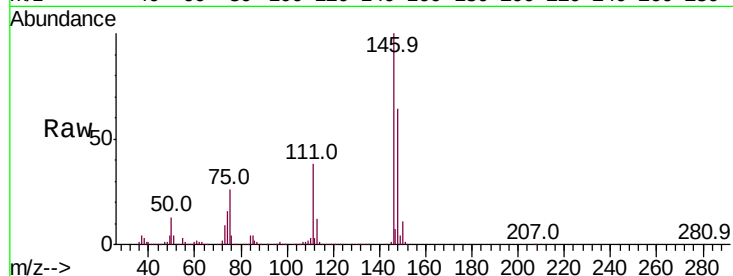
ClientSampled :

VSTDCCC050

Tot Ion:	146	Resp:	1692717
Ion	Ratio	Lower	Upper
146	100		
111	38.5	19.1	57.3
148	64.1	32.4	97.0

Manual Integrations
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MMDadoda
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#92

1,2-Dibromo-3-Chloropropane

Concen: 48.644 ug/l

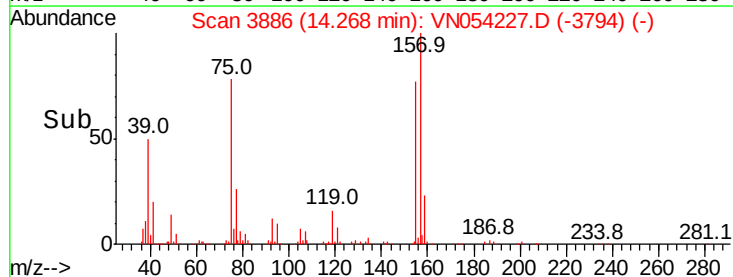
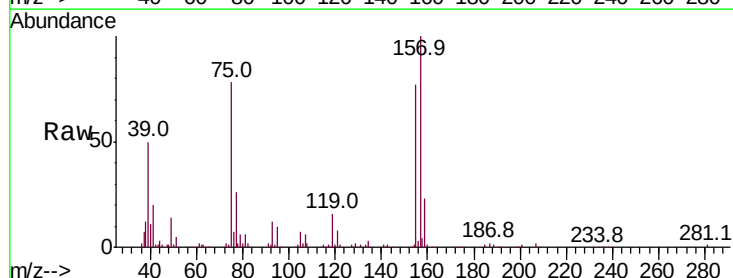
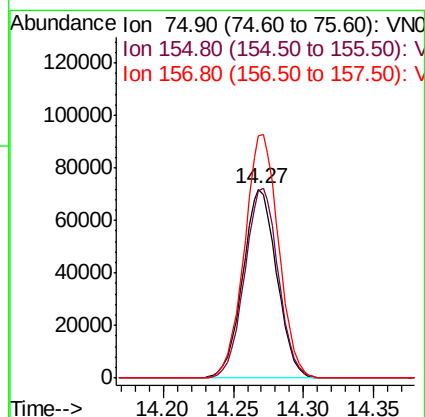
RT: 14.27 min Scan# 3886

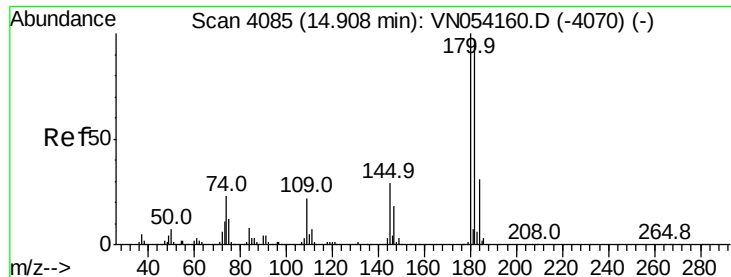
Delta R.T. -0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

Tgt Ion:	75	Resp:	121316
Ion	Ratio	Lower	Upper
75	100		
155	99.4	50.1	150.3
157	129.3	63.1	189.3





#93

1,2,4-Trichlorobenzene

Concen: 48.852 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN054227.D

Acq: 13 Mar 2019 22:15

Instrument :

MSVOA_N

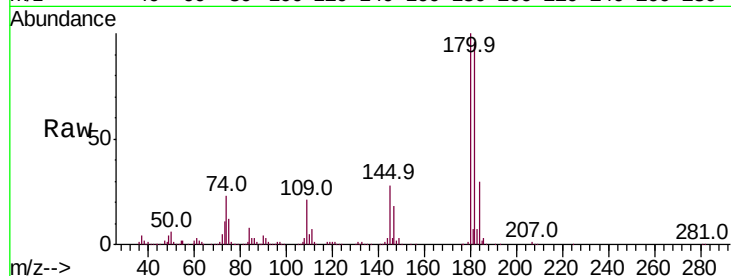
ClientSampleId :

VSTDCCC050

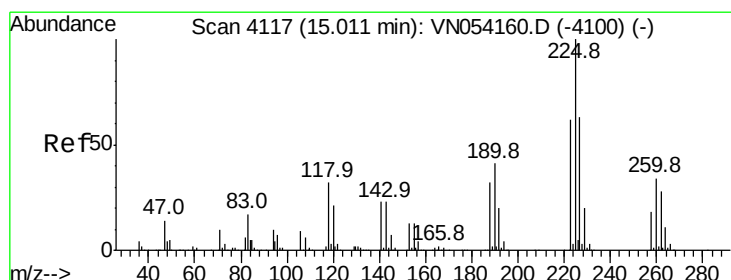
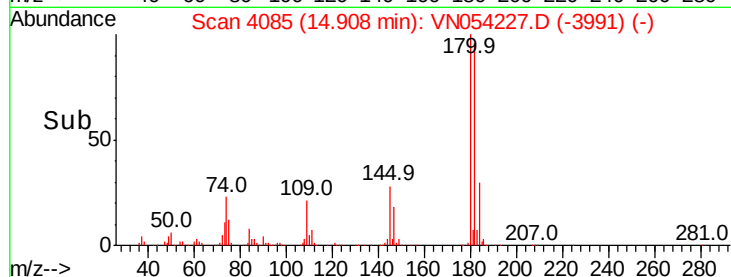
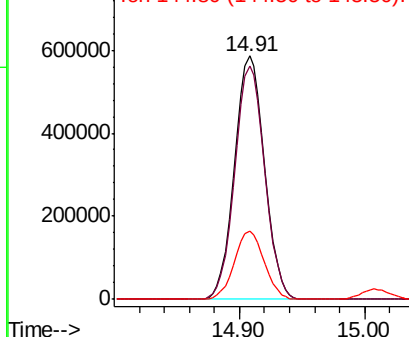
Tot Ion:	180	Resp:	971279
Ion Ratio	Lower	Upper	
180	100		
182	95.7	48.0	144.2
145	27.9	14.2	42.8

Manual Integrations
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MMDadoda
3/14/2019 10:28:12 AM



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: 45.807 ug/l

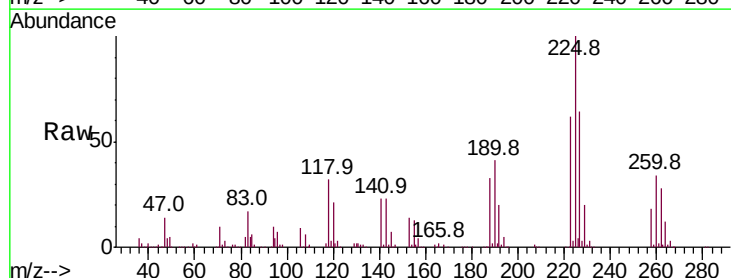
RT: 15.01 min Scan# 4117

Delta R.T. -0.00 min

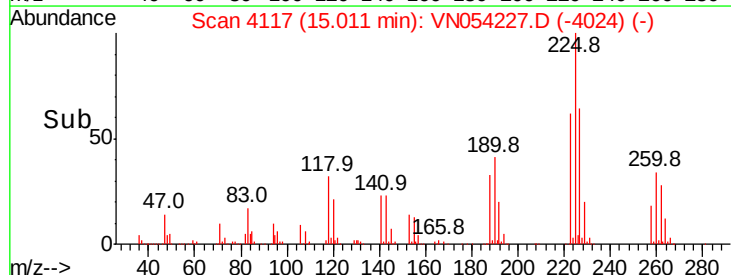
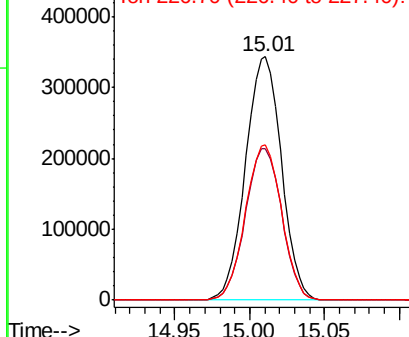
Lab File: VN054227.D

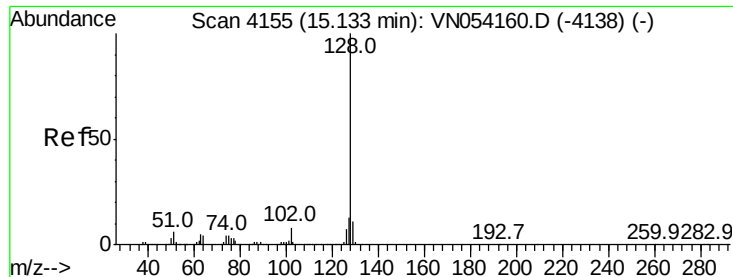
Acq: 13 Mar 2019 22:15

Tgt Ion:	225	Resp:	575317
Ion Ratio	Lower	Upper	
225	100		
223	63.3	31.1	93.5
227	64.0	31.9	95.9



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V





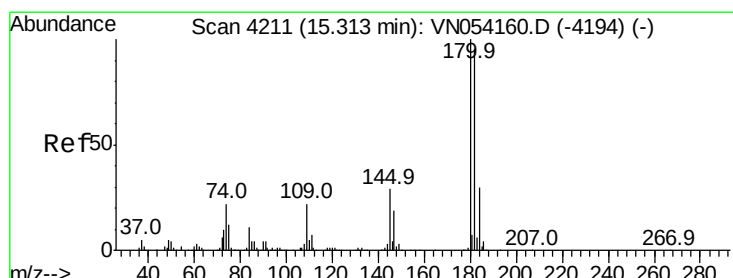
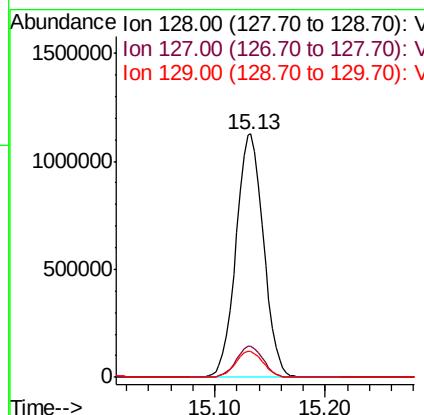
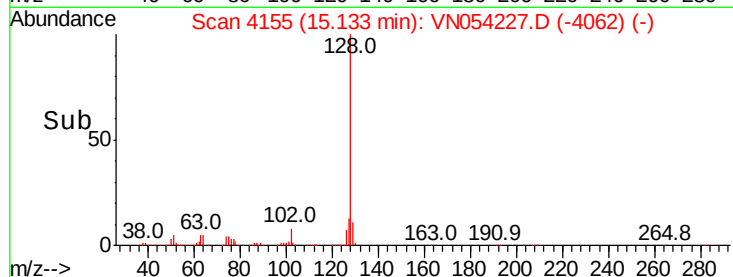
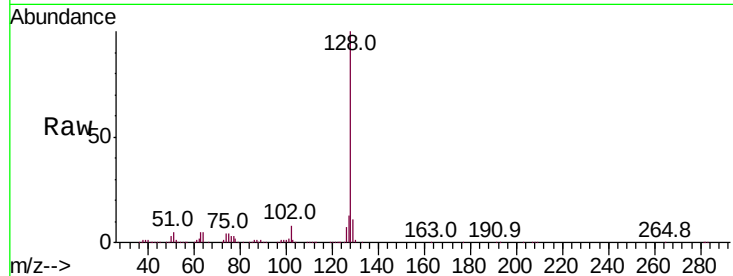
#95
Naphthalene
Concen: 47.024 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN054227.D
Acq: 13 Mar 2019 22:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.1	15.1
129	10.8	8.7	13.1

Manual Integrations
APPROVED

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3/14/2019 10:28:12 AM



#96
1,2,3-Trichlorobenzene
Concen: 54.741 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN054227.D
Acq: 13 Mar 2019 22:15

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.0	47.5	142.6
145	29.2	14.8	44.3

