

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN011619\
 Data File : VN053413.D
 Acq On : 16 Jan 2019 9:12
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 1/17/2019 9:41:13 AM

Quant Time: Jan 17 04:01:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 03:10:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	873507	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1258816	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1157624	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	592124	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	421995	48.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.76%	
35) Dibromofluoromethane	7.59	113	381705	53.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.26%	
50) Toluene-d8	10.09	98	1579073	51.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.94%	
62) 4-Bromofluorobenzene	12.40	95	560079	52.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.14%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	354046	50.412	ug/l	99
3) Chloromethane	2.06	50	471842	46.991	ug/l	99
4) Vinyl Chloride	2.19	62	463866	47.924	ug/l	100
5) Bromomethane	2.57	94	319293	48.077	ug/l	97
6) Chloroethane	2.71	64	280226	47.886	ug/l	99
7) Trichlorofluoromethane	3.03	101	630335	49.788	ug/l	99
8) Diethyl Ether	3.41	74	229540	48.273	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	414808	51.734	ug/l	100
10) Methyl Iodide	3.96	142	603440	49.249	ug/l	100
11) Tert butyl alcohol	4.77	59	114465	270.944	ug/l	99
12) 1,1-Dichloroethene	3.74	96	381735	49.085	ug/l	99
13) Acrolein	3.61	56	167961	207.952	ug/l	99
14) Allyl chloride	4.33	41	598665	47.392	ug/l	96
15) Acrylonitrile	4.98	53	675900	243.103	ug/l	100
16) Acetone	3.81	43	530747	262.015	ug/l	99
17) Carbon Disulfide	4.06	76	1158627	49.266	ug/l	100
18) Methyl Acetate	4.32	43	317297	46.492	ug/l	100
19) Methyl tert-butyl Ether	5.04	73	1010190	48.887	ug/l	98
20) Methylene Chloride	4.55	84	438020	47.363	ug/l	98
21) trans-1,2-Dichloroethene	5.04	96	412355	49.595	ug/l	98
22) Diisopropyl ether	5.95	45	1316030	49.904	ug/l	99
23) Vinyl Acetate	5.89	43	4114521	253.816	ug/l	100
24) 1,1-Dichloroethane	5.85	63	762663	48.921	ug/l	100
25) 2-Butanone	6.83	43	791294	253.495	ug/l	100
26) 2,2-Dichloropropane	6.82	77	586522	49.830	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	473987	49.853	ug/l	99
28) Bromochloromethane	7.19	49	340185	49.533	ug/l	100
29) Tetrahydrofuran	7.21	42	495034	243.604	ug/l	100
30) Chloroform	7.37	83	750956	49.440	ug/l	99
31) Cyclohexane	7.65	56	748296	49.319	ug/l	100
32) 1,1,1-Trichloroethane	7.57	97	634328	49.231	ug/l	99
36) 1,1-Dichloropropene	7.79	75	603118	52.609	ug/l	100
37) Ethyl Acetate	6.92	43	332727	50.446	ug/l	99
38) Carbon Tetrachloride	7.77	117	567764	52.311	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	775411	54.723	ug/l	99
40) Benzene	8.04	78	1789277	51.360	ug/l	99
41) Methacrylonitrile	7.17	41	176417	45.080	ug/l	92
42) 1,2-Dichloroethane	8.12	62	516438	50.885	ug/l	100
43) Isopropyl Acetate	8.16	43	589535	49.709	ug/l	98
44) Trichloroethene	8.83	130	502489	52.012	ug/l	100
45) 1,2-Dichloropropane	9.12	63	472087	51.161	ug/l	98
46) Dibromomethane	9.21	93	268088	50.568	ug/l	99
47) Bromodichloromethane	9.40	83	581050	52.117	ug/l	98
48) Methyl methacrylate	9.20	41	303257	49.523	ug/l	98
49) 1,4-Dioxane	9.20	88	79455	1328.598	ug/l	97
51) 4-Methyl-2-Pentanone	9.98	43	1664025	257.024	ug/l	100
52) Toluene	10.15	92	1115145	51.560	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	596623	52.796	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	700805	52.902	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	381012	51.098	ug/l	99
56) Ethyl methacrylate	10.43	69	491410	46.585	ug/l	99
57) 1,3-Dichloropropane	10.71	76	658306	51.036	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	1364896	261.650	ug/l	100
59) 2-Hexanone	10.75	43	1208397	265.884	ug/l	100
60) Dibromochloromethane	10.90	129	442246	52.292	ug/l	100
61) 1,2-Dibromoethane	11.00	107	386387	51.237	ug/l	100
64) Tetrachloroethene	10.63	164	573189	52.541	ug/l	98
65) Chlorobenzene	11.43	112	1246659	50.878	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	438643	51.458	ug/l	99
67) Ethyl Benzene	11.51	91	2173484	52.048	ug/l	100
68) m/p-Xylenes	11.62	106	1674891	106.232	ug/l	100
69) o-Xylene	11.95	106	804614	52.520	ug/l	99
70) Styrene	11.96	104	1338729	53.842	ug/l	99
71) Bromoform	12.13	173	304593	51.903	ug/l #	99
73) Isopropylbenzene	12.25	105	2176970	50.205	ug/l	99
74) N-amyl acetate	12.07	43	559446	48.398	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.50	83	414963	45.630	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	375908m	48.174	ug/l	
77) Bromobenzene	12.53	156	559500	48.968	ug/l	99
78) n-propylbenzene	12.59	91	2574202	51.718	ug/l	100
79) 2-Chlorotoluene	12.67	91	1457575	49.404	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	1817467	51.516	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	139328	45.432	ug/l	99
82) 4-Chlorotoluene	12.77	91	1523037	50.621	ug/l	99
83) tert-Butylbenzene	12.99	119	1598485	51.299	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	1854841	52.142	ug/l	100
85) sec-Butylbenzene	13.17	105	2225580	52.079	ug/l	100
86) p-Isopropyltoluene	13.29	119	1986344	53.532	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	1040102	51.750	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	1016394	50.414	ug/l	99
89) n-Butylbenzene	13.62	91	1733309	54.801	ug/l	99
90) Hexachloroethane	13.87	117	311257	53.485	ug/l	100
91) 1,2-Dichlorobenzene	13.65	146	965741	52.228	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	61421	53.266	ug/l	98

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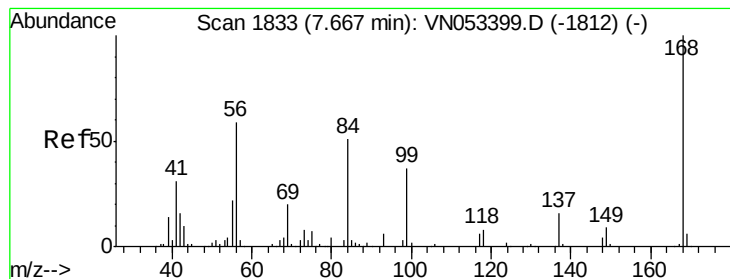
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	416983	51.048	ug/l	99
94) Hexachlorobutadiene	15.01	225	325634	56.454	ug/l	100
95) Naphthalene	15.13	128	649232	45.722	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	282878	47.589	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN053413.D

Acq: 16 Jan 2019 9:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 873507

Ion Ratio Lower Upper

168 100

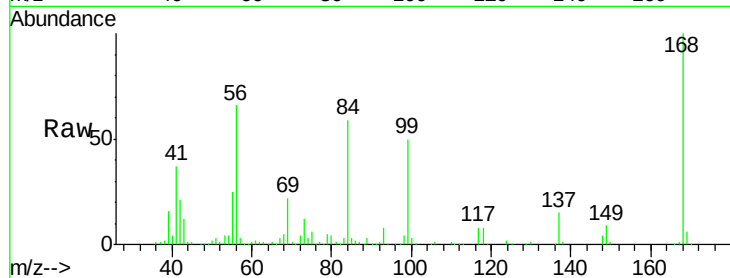
99 49.7 39.1 58.7

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

400000

300000

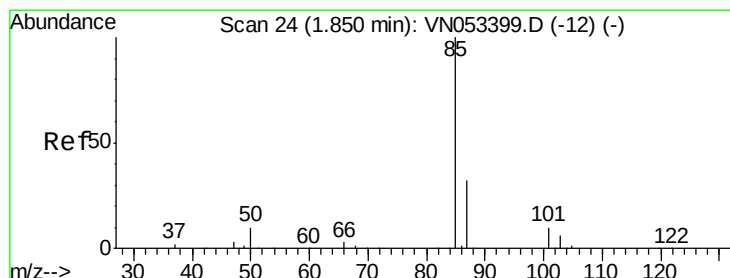
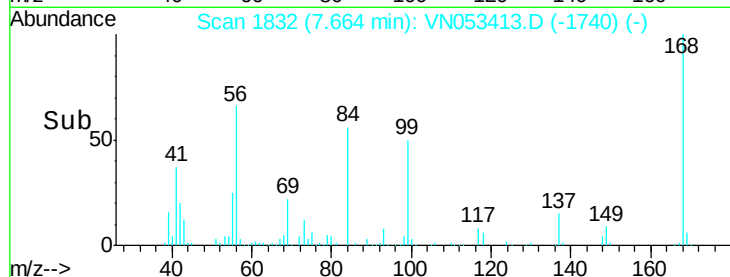
200000

100000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 50.412 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN053413.D

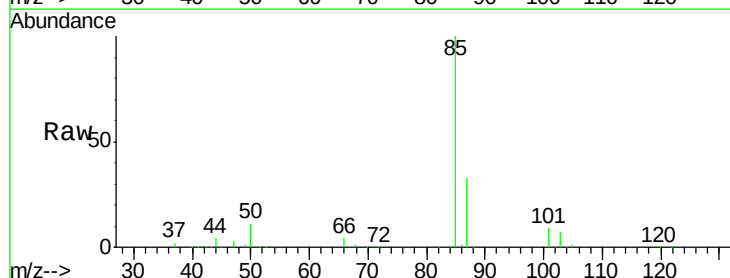
Acq: 16 Jan 2019 9:12

Tgt Ion: 85 Resp: 354046

Ion Ratio Lower Upper

85 100

87 33.1 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

300000

250000

200000

150000

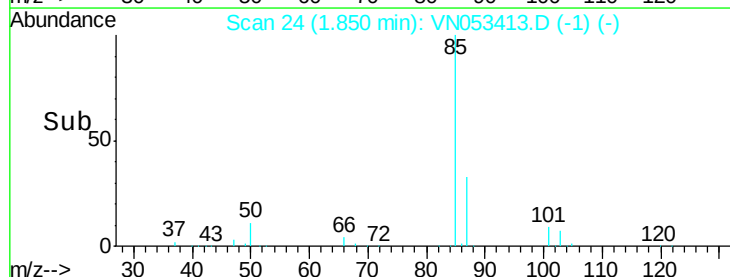
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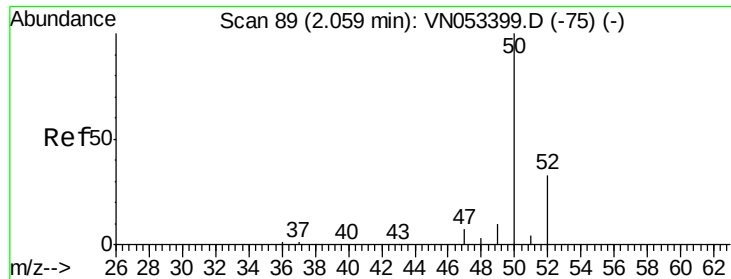
50000

0

1.75 1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 46.991 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN053413.D

Acq: 16 Jan 2019 9:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 471842

Ion Ratio Lower Upper

50 100

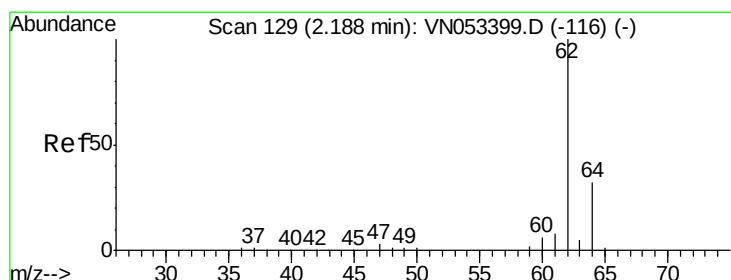
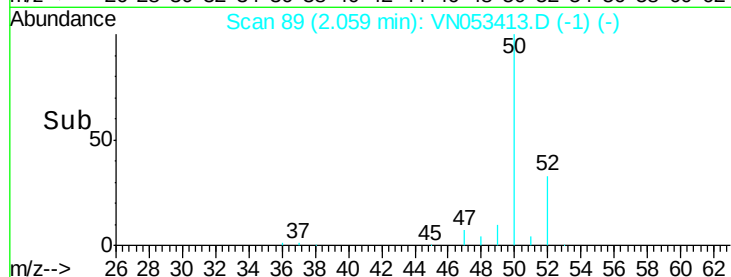
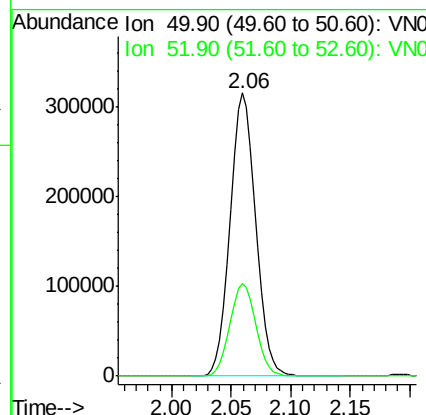
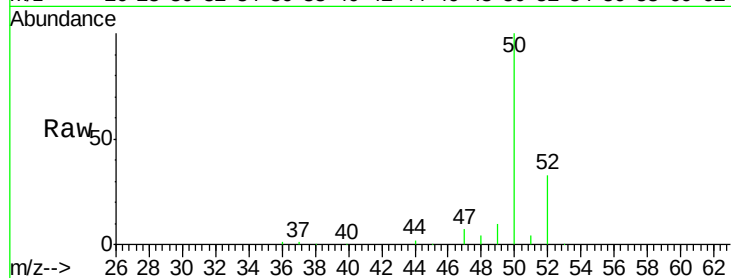
52 32.8 26.6 40.0

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#4

Vinyl Chloride

Concen: 47.924 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN053413.D

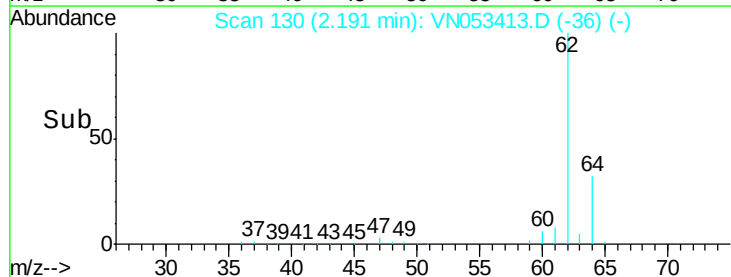
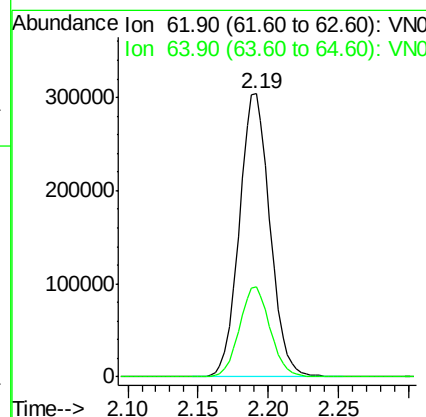
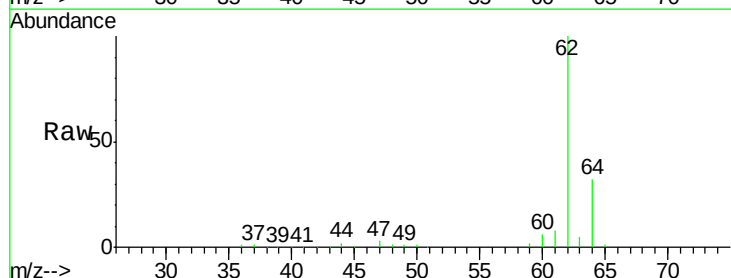
Acq: 16 Jan 2019 9:12

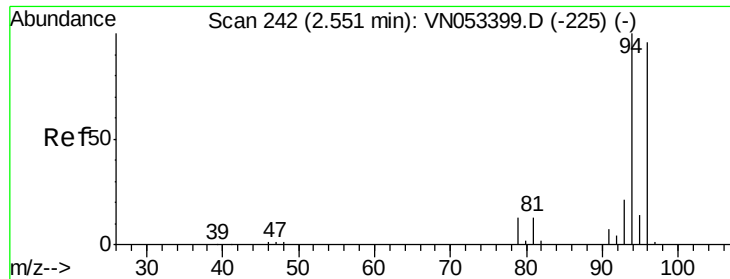
Tgt Ion: 62 Resp: 463866

Ion Ratio Lower Upper

62 100

64 31.7 25.4 38.2





#5

Bromomethane

Concen: 48.077 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.02 min

Lab File: VN053413.D

Acq: 16 Jan 2019 9:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 319293

Ion Ratio Lower Upper

94 100

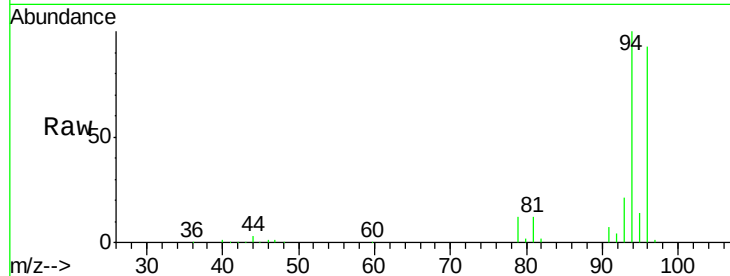
96 92.6 76.8 115.2

Manual Integrations

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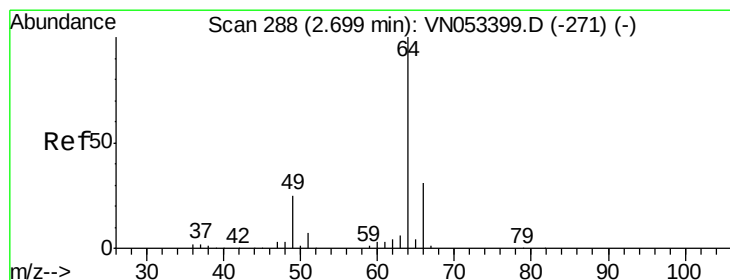
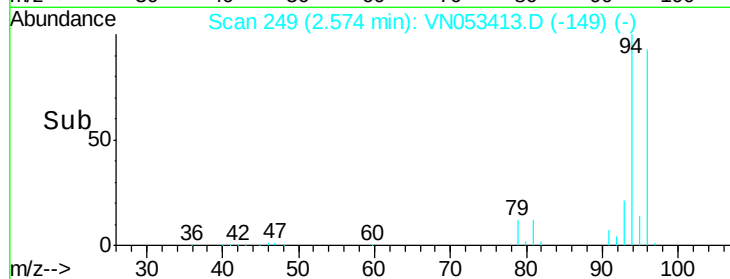
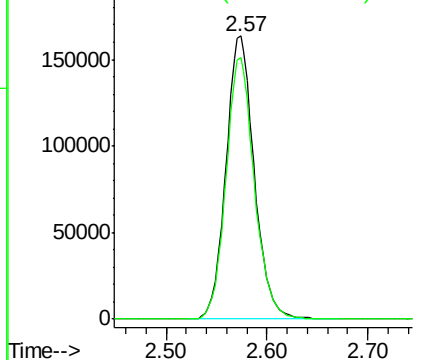
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 47.886 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.01 min

Lab File: VN053413.D

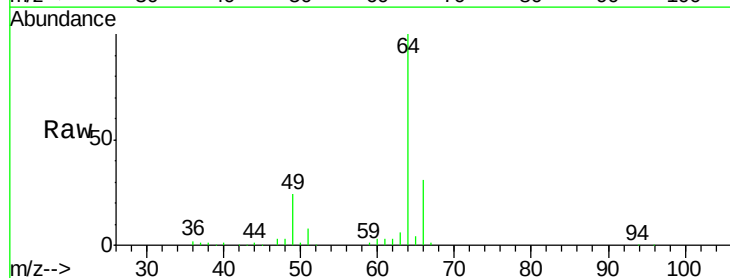
Acq: 16 Jan 2019 9:12

Tgt Ion: 64 Resp: 280226

Ion Ratio Lower Upper

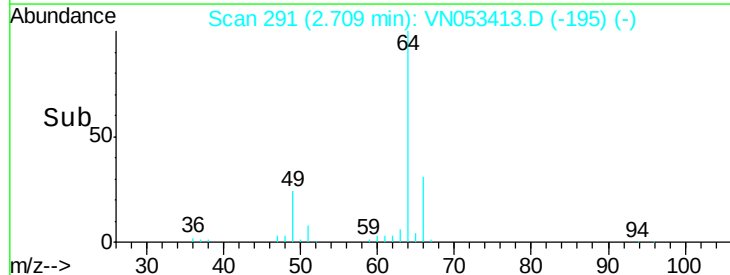
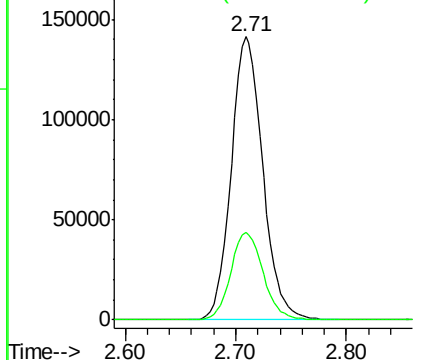
64 100

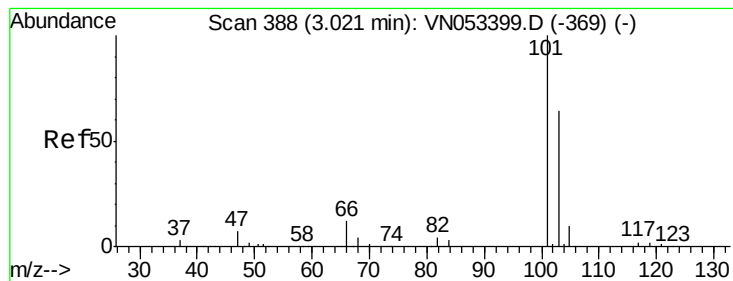
66 30.8 25.1 37.7



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





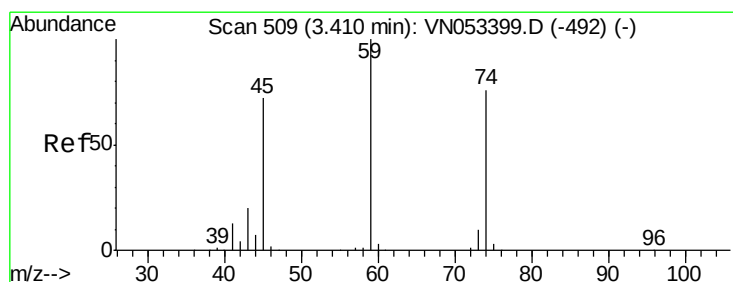
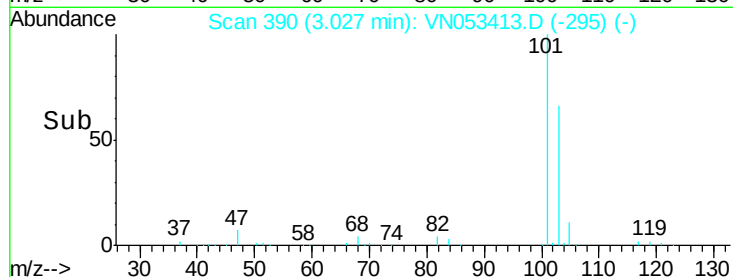
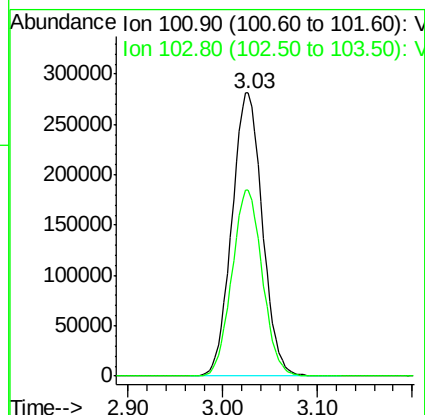
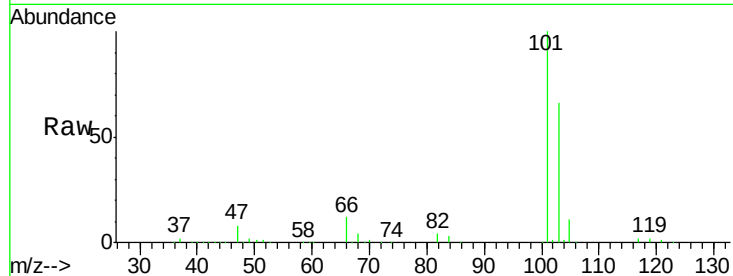
#7
 Trichlorofluoromethane
 Concen: 49.788 ug/l
 RT: 3.03 min Scan# 390
 Delta R.T. 0.01 min
 Lab File: VN053413.D
 Acq: 16 Jan 2019 9:12

Instrument :
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 VSTDCCC050

Tot Ion:101 Resp: 630335
 Ion Ratio Lower Upper
 101 100
 103 65.5 51.6 77.4

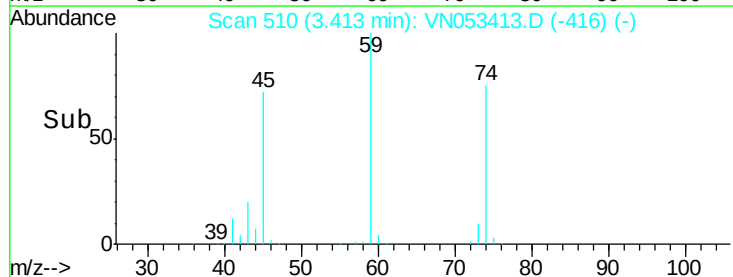
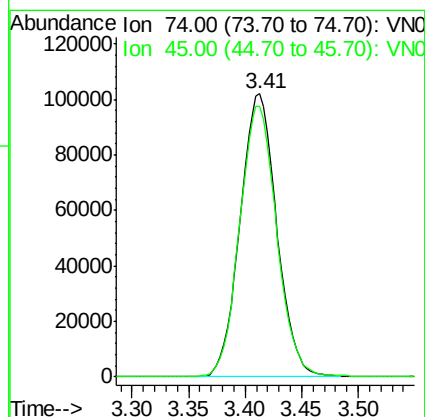
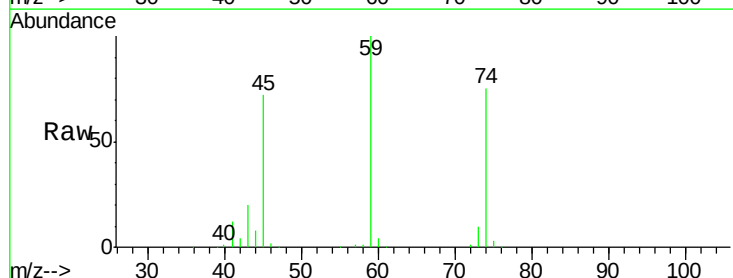
Manual Integrations
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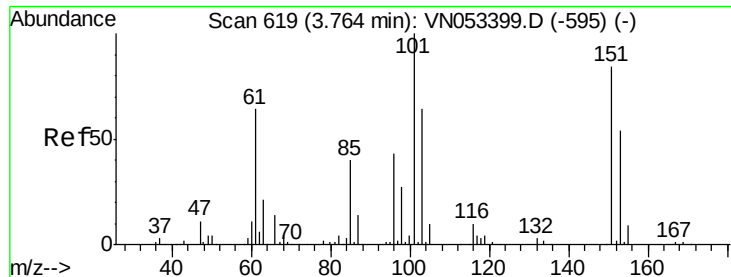
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 1/17/2019 9:41:13 AM



#8
 Diethyl Ether
 Concen: 48.273 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN053413.D
 Acq: 16 Jan 2019 9:12

Tgt Ion: 74 Resp: 229540
 Ion Ratio Lower Upper
 74 100
 45 97.2 47.9 143.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 51.734 ug/l

RT: 3.76 min Scan# 619

Delta R.T. -0.00 min

Lab File: VN053413.D

Acq: 16 Jan 2019 9:12

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MSVOA_N

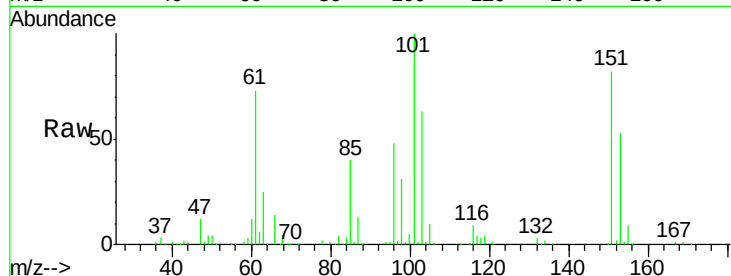
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	414808
Ion Ratio	Lower	Upper	
101	100		
85	41.1	32.8	49.2
151	83.6	66.9	100.3

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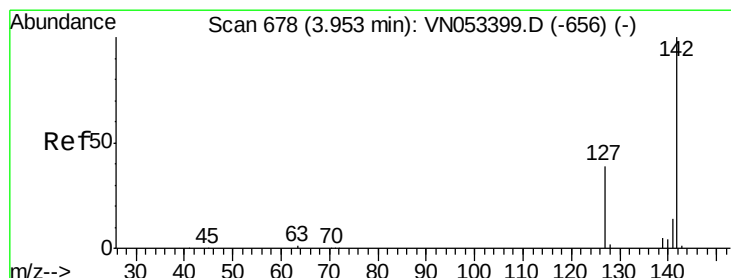
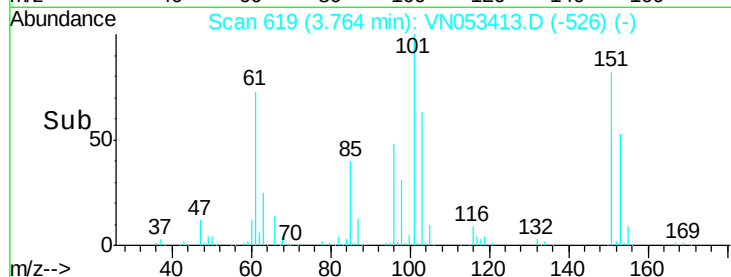
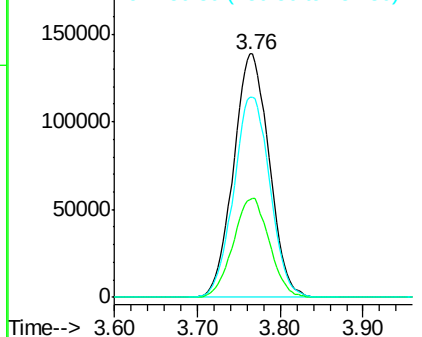
MMDadoda
1/17/2019 9:41:13 AM



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN053399.D (-595) (-)

Ion 150.80 (150.50 to 151.50): VN053399.D (-595) (-)



#10

Methyl Iodide

Concen: 49.249 ug/l

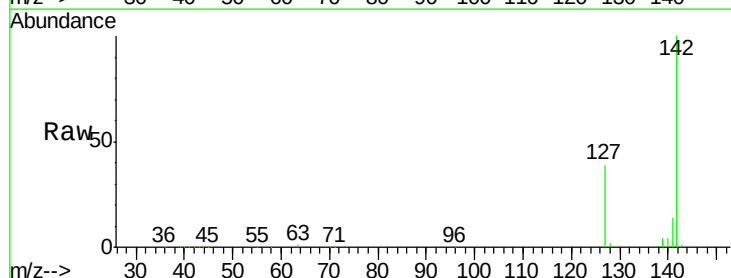
RT: 3.96 min Scan# 679

Delta R.T. 0.00 min

Lab File: VN053413.D

Acq: 16 Jan 2019 9:12

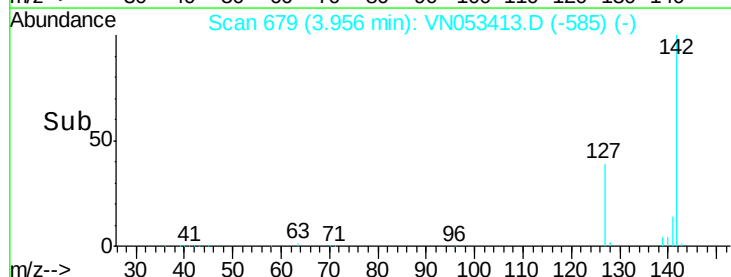
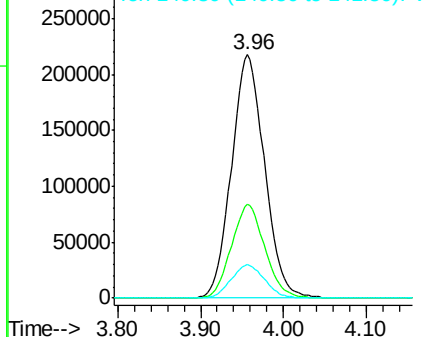
Tgt Ion:	142	Resp:	603440
Ion Ratio	Lower	Upper	
142	100		
127	39.0	31.0	46.4
141	14.0	11.1	16.7

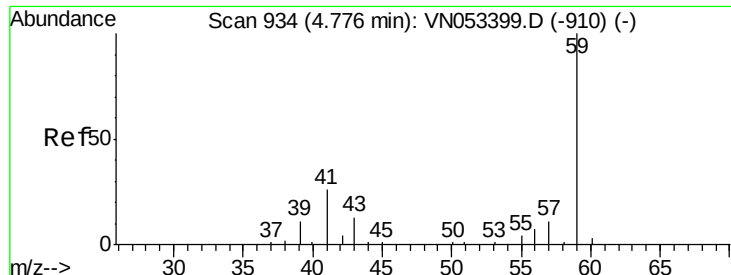


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): VN053399.D (-656) (-)

Ion 140.80 (140.50 to 141.50): VN053399.D (-656) (-)





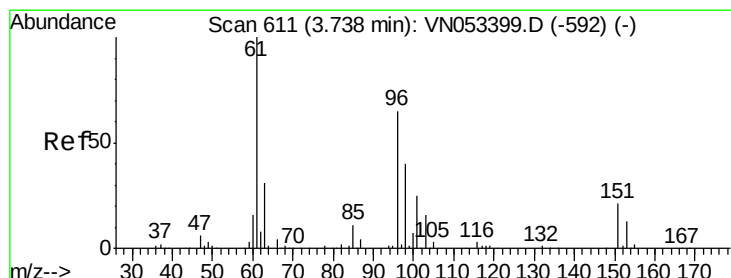
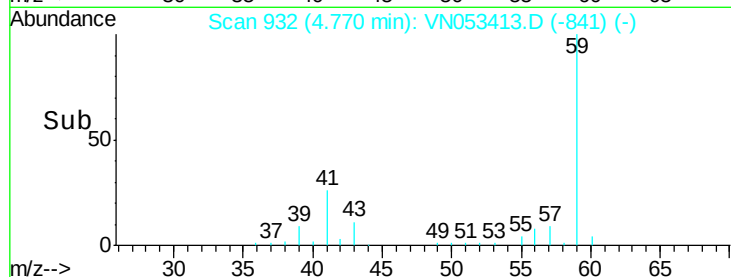
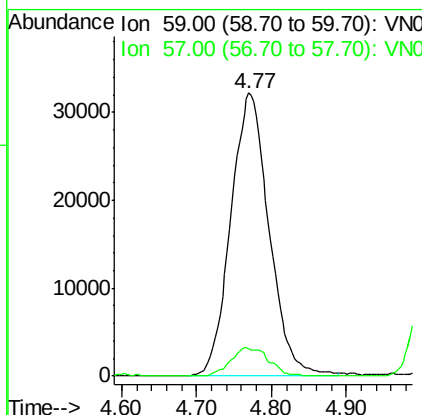
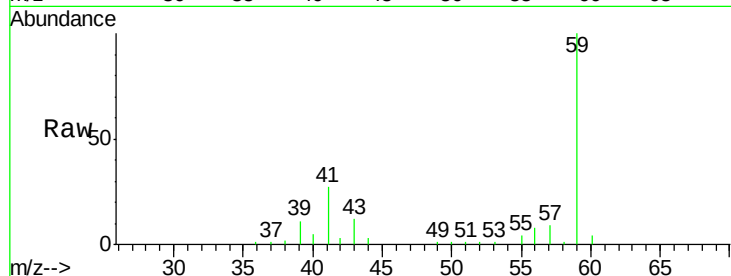
#11
Tert butyl alcohol
Concen: 270.944 ug/l
RT: 4.77 min Scan# 932
Delta R.T. -0.01 min
Lab File: VN053413.D
Acq: 16 Jan 2019 9:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
59	100	114465		
57	9.9		8.2	12.4

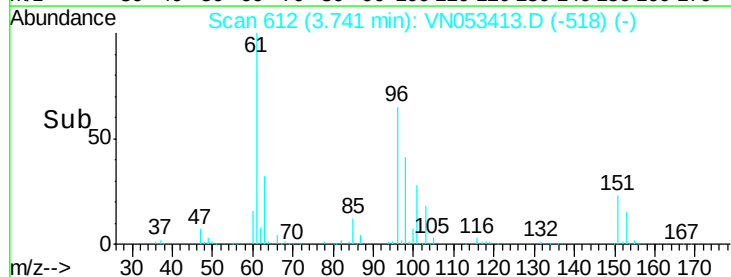
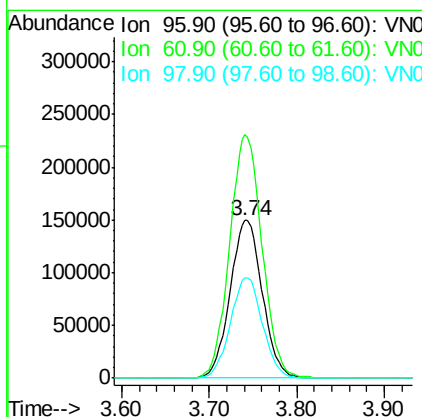
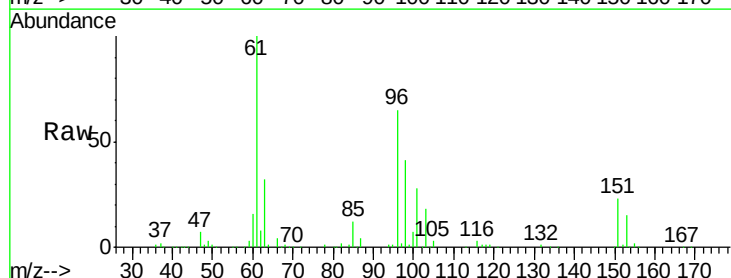
Manual Integrations
APPROVED

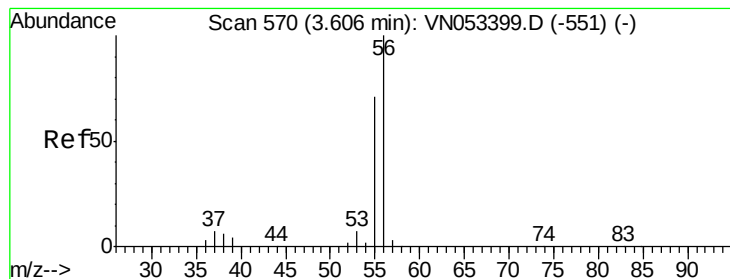
MMDadoda
1/17/2019 9:41:13 AM



#12
1,1-Dichloroethene
Concen: 49.085 ug/l
RT: 3.74 min Scan# 612
Delta R.T. 0.00 min
Lab File: VN053413.D
Acq: 16 Jan 2019 9:12

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	381735		
61	154.5		122.9	184.3
98	63.8		49.4	74.0





#13

Acrolein

Concen: 207.952 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN053413.D

Acq: 16 Jan 2019 9:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 167961

Ion Ratio Lower Upper

56 100

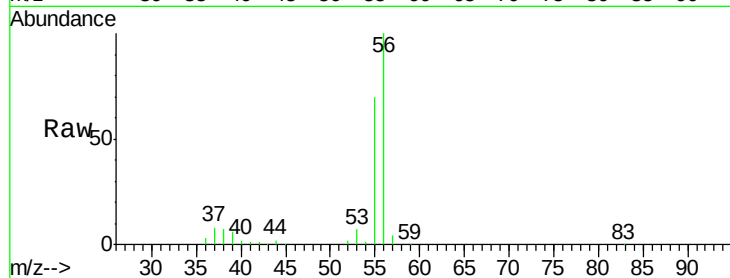
55 70.8 57.4 86.0

Manual Integrations

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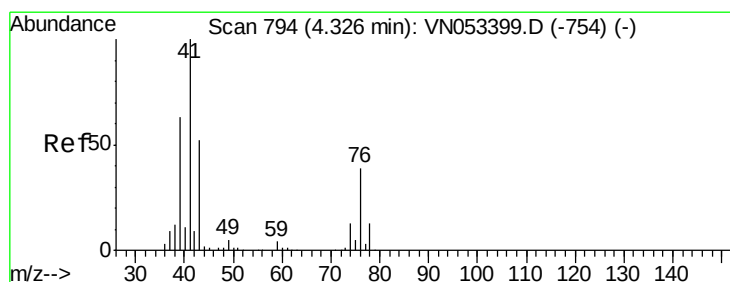
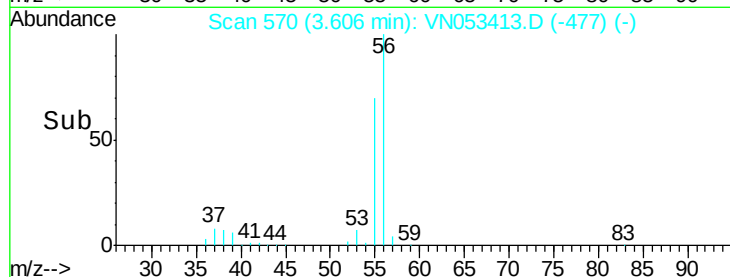
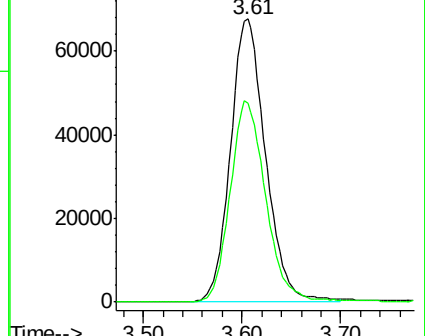
MMDadoda

1/17/2019 9:41:13 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 47.392 ug/l

RT: 4.33 min Scan# 794

Delta R.T. -0.00 min

Lab File: VN053413.D

Acq: 16 Jan 2019 9:12

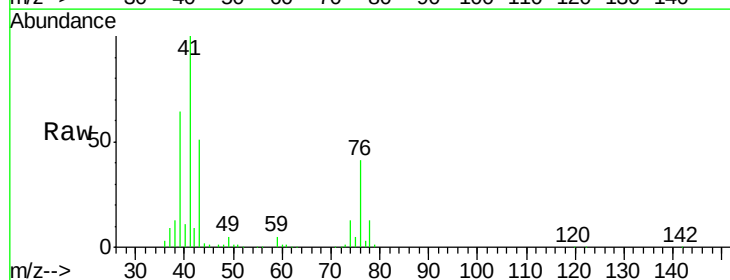
Tgt Ion: 41 Resp: 598665

Ion Ratio Lower Upper

41 100

39 64.3 48.9 73.3

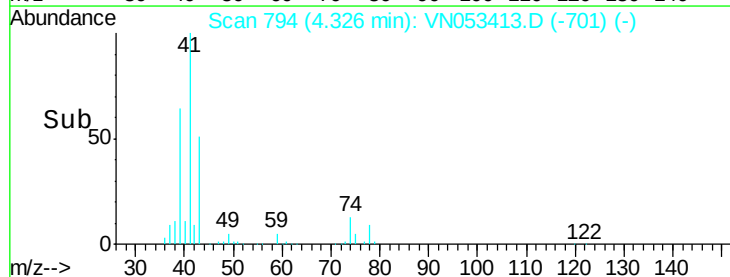
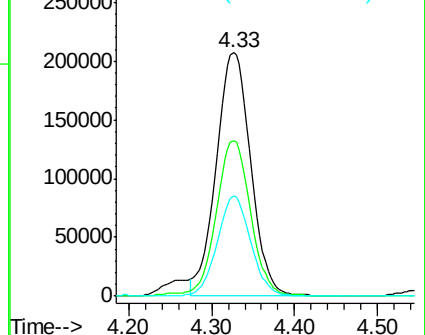
76 39.1 29.4 44.2

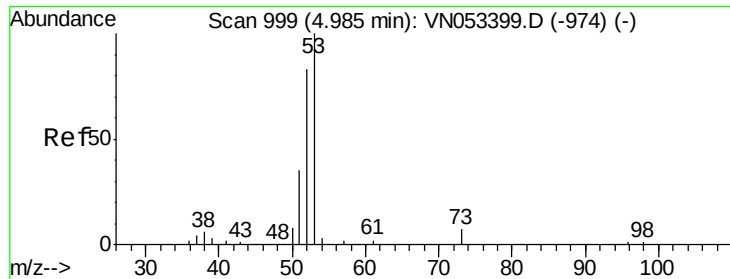


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 243.103 ug/l

RT: 4.98 min Scan# 998

Delta R.T. -0.00 min

Lab File: VN053413.D

Acq: 16 Jan 2019 9:12

Instrument :

MSVOA_N

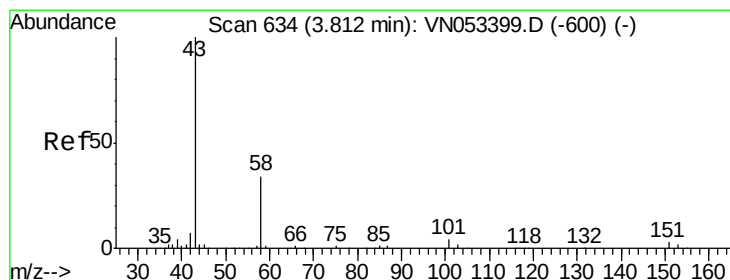
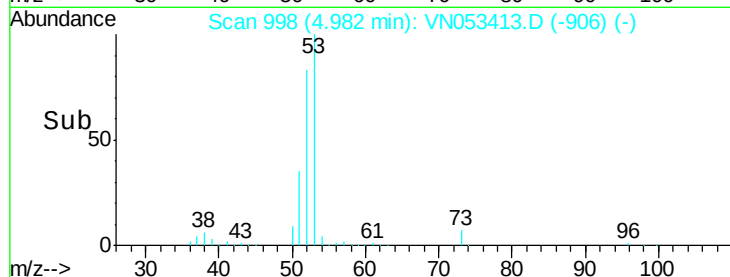
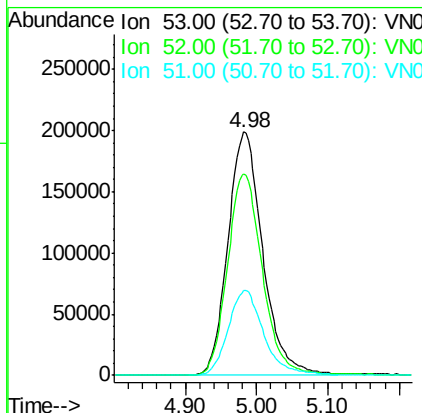
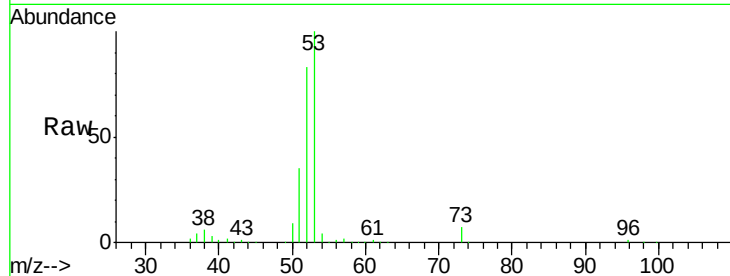
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	675900
Ion	Ratio	Lower	Upper
53	100		
52	82.8	66.0	99.0
51	35.7	28.3	42.5

Manual Integrations
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#16

Acetone

Concen: 262.015 ug/l

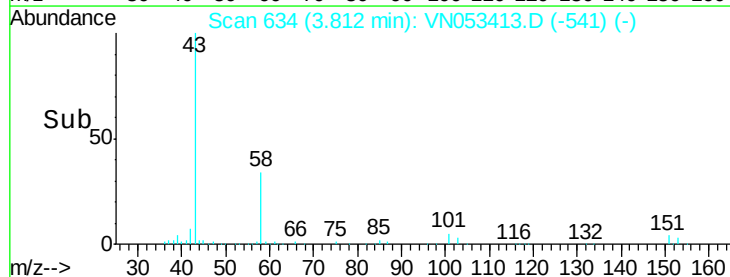
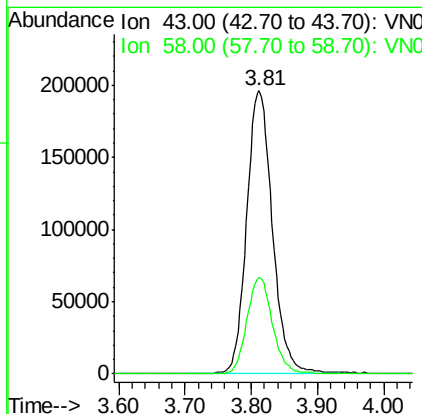
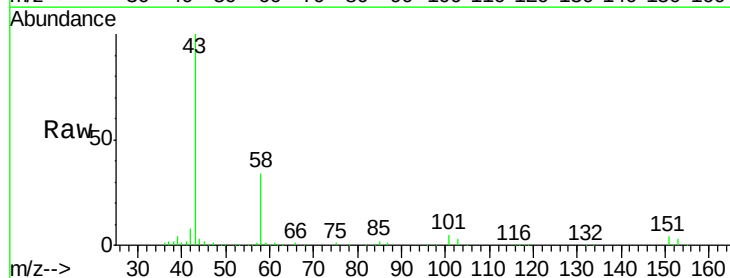
RT: 3.81 min Scan# 634

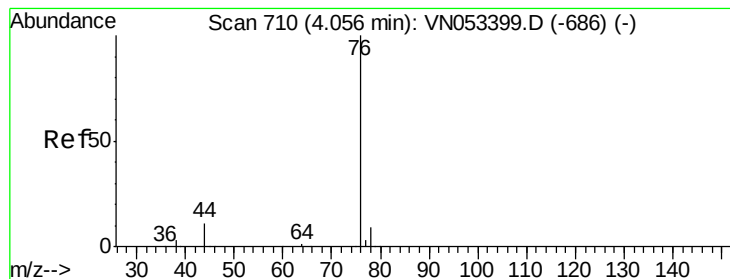
Delta R.T. -0.00 min

Lab File: VN053413.D

Acq: 16 Jan 2019 9:12

Tgt Ion:	43	Resp:	530747
Ion	Ratio	Lower	Upper
43	100		
58	34.3	27.1	40.7





#17

Carbon Disulfide

Concen: 49.266 ug/l

RT: 4.06 min Scan# 710

Delta R.T. -0.00 min

Lab File: VN053413.D

Acq: 16 Jan 2019 9:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 1158627

Ion Ratio Lower Upper

76 100

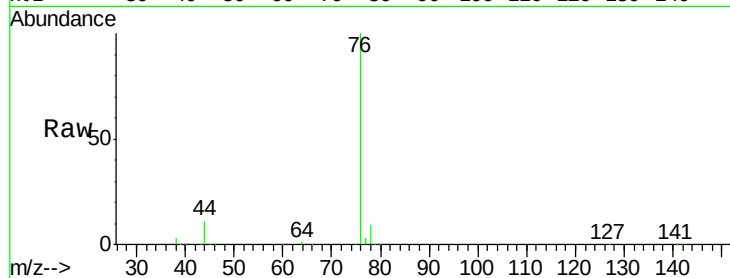
78 9.0 7.3 10.9

Manual Integrations

APPROVED

MMDadoda

1/17/2019 9:41:13 AM



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO

4.06

500000

400000

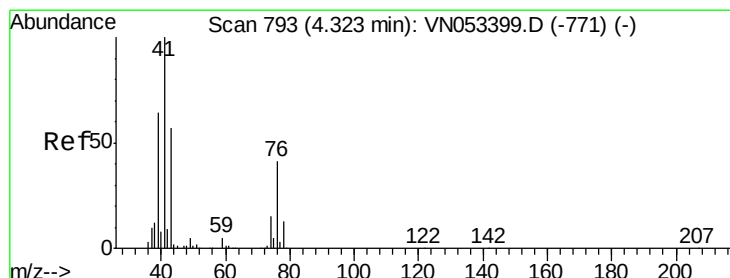
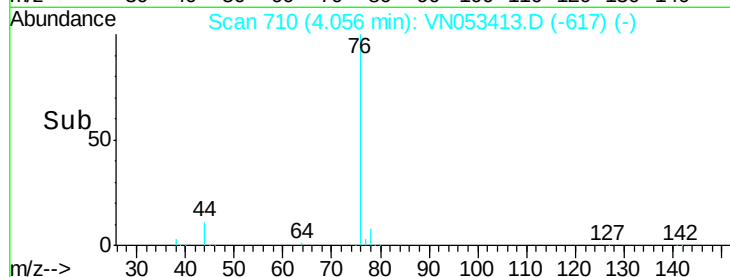
300000

200000

100000

0

Time--> 3.90 4.00 4.10 4.20



#18

Methyl Acetate

Concen: 46.492 ug/l

RT: 4.32 min Scan# 792

Delta R.T. -0.00 min

Lab File: VN053413.D

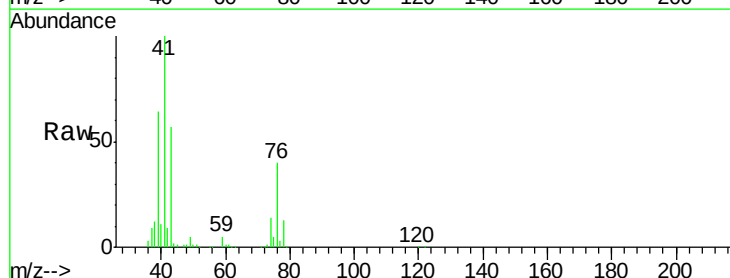
Acq: 16 Jan 2019 9:12

Tgt Ion: 43 Resp: 317297

Ion Ratio Lower Upper

43 100

74 24.5 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 74.00 (73.70 to 74.70): VNO

4.32

120000

100000

80000

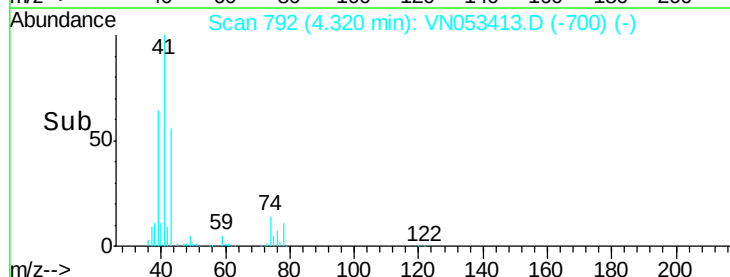
60000

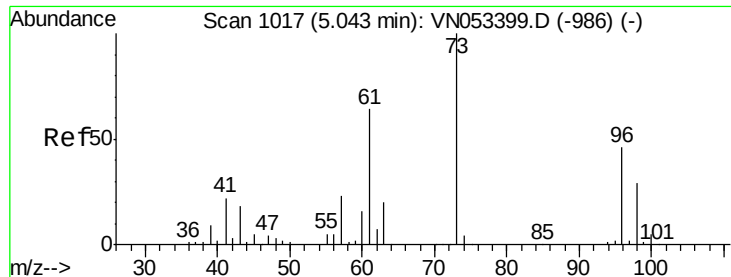
40000

20000

0

Time--> 4.20 4.30 4.40 4.50





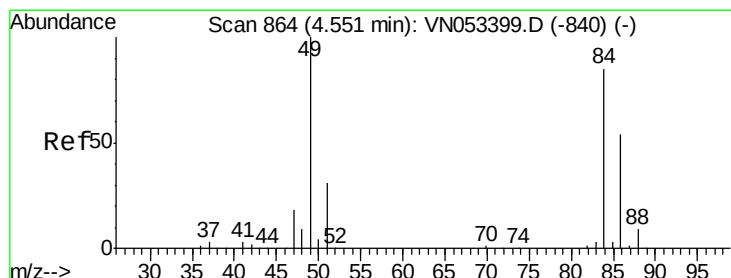
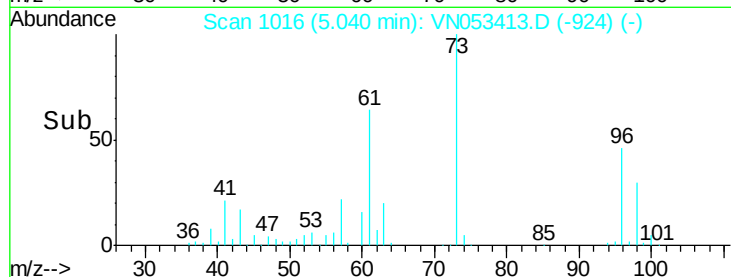
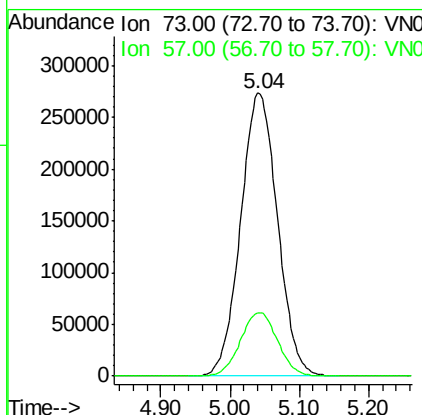
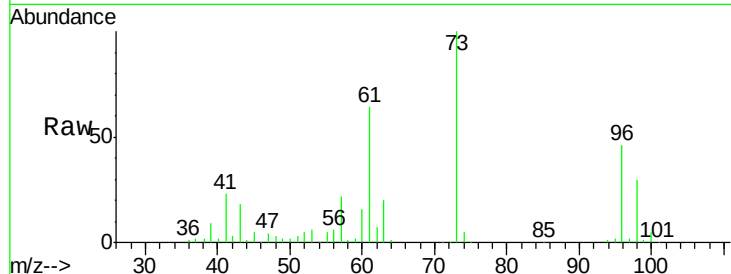
#19
Methyl tert-butyl Ether
Concen: 48.887 ug/l
RT: 5.04 min Scan# 1016
Delta R.T. -0.00 min
Lab File: VN053413.D
Acq: 16 Jan 2019 9:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 1010190
Ion Ratio Lower Upper
73 100
57 22.1 18.3 27.5

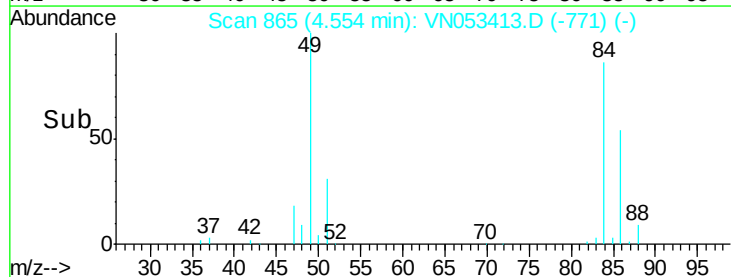
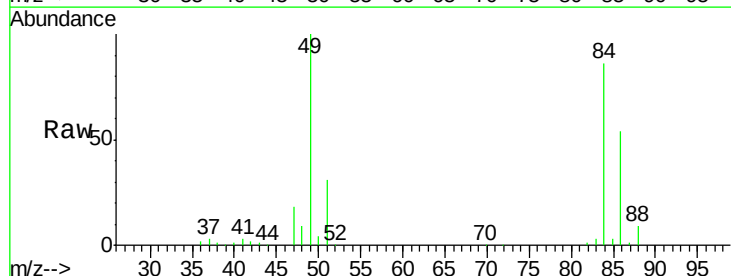
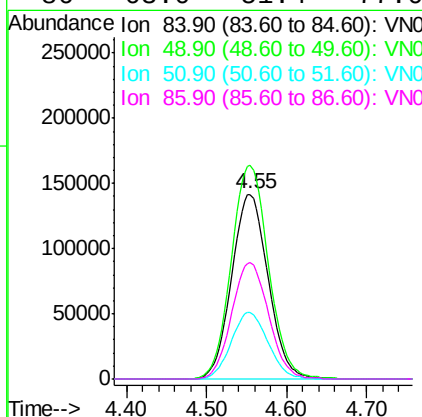
Manual Integrations
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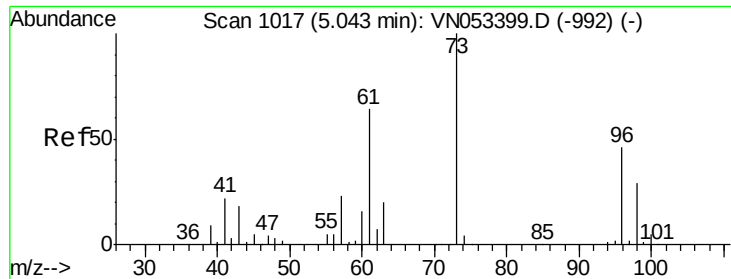
MMDadoda
1/17/2019 9:41:13 AM



#20
Methylene Chloride
Concen: 47.363 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053413.D
Acq: 16 Jan 2019 9:12

Tgt Ion: 84 Resp: 438020
Ion Ratio Lower Upper
84 100
49 115.7 94.3 141.5
51 36.0 29.4 44.2
86 63.0 51.4 77.0





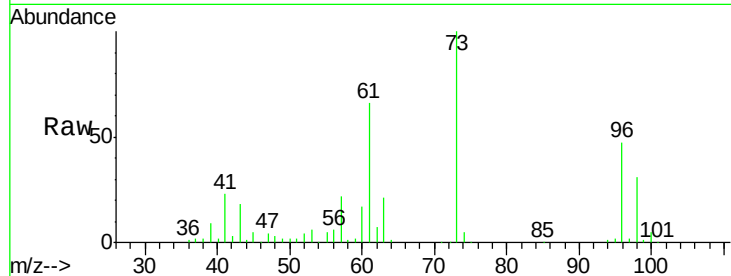
#21
trans-1,2-Dichloroethene
Concen: 49.595 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN053413.D
Acq: 16 Jan 2019 9:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	139.7	110.1	165.1
98	65.1	50.0	75.0

Manual Integrations
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1/17/2019 9:41:13 AM

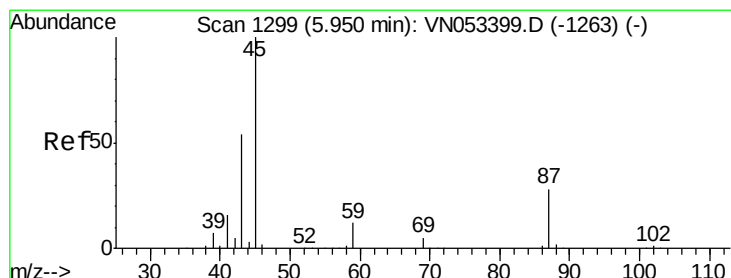
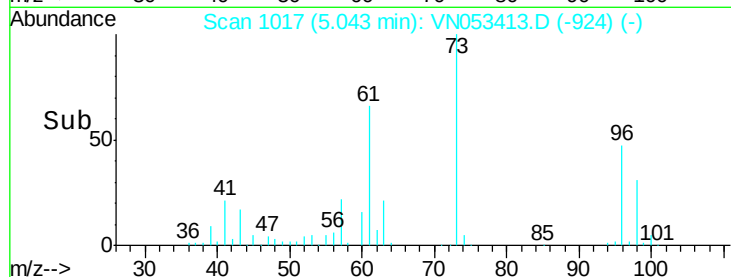
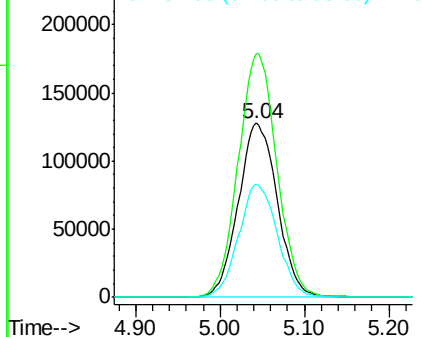


Abundance

Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO



#22
Diisopropyl ether
Concen: 49.904 ug/l
RT: 5.95 min Scan# 1299
Delta R.T. -0.00 min
Lab File: VN053413.D
Acq: 16 Jan 2019 9:12

Tgt Ion	Ratio	Lower	Upper
45	100		
43	54.7	44.2	66.4
87	28.2	22.7	34.1
59	11.7	9.4	14.2

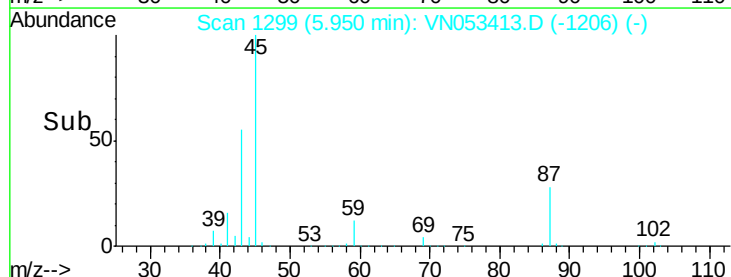
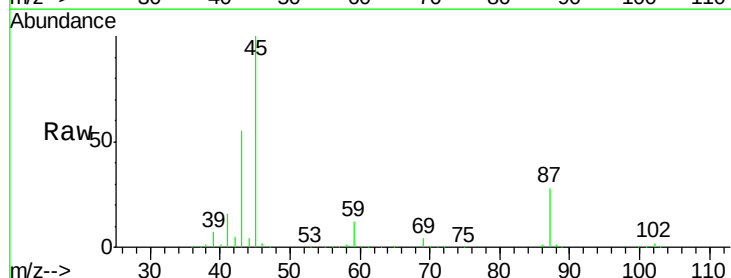
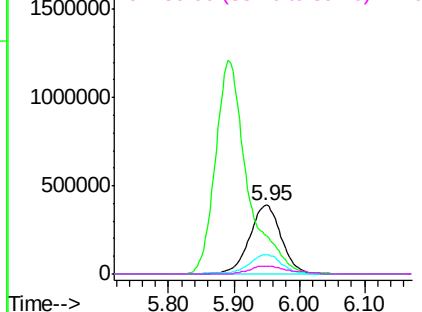
Abundance

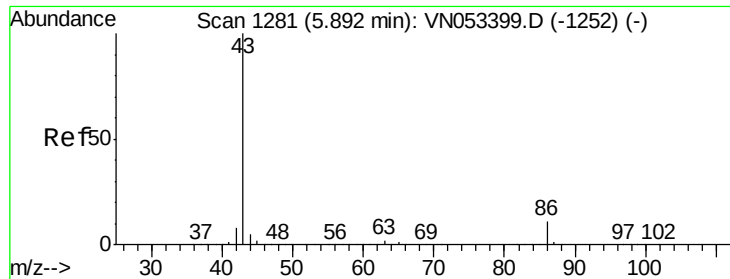
Ion 45.00 (44.70 to 45.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

Ion 59.00 (58.70 to 59.70): VNO





#23

Vinyl Acetate

Concen: 253.816 ug/l

RT: 5.89 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VN053413.D

Acq: 16 Jan 2019 9:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 4114521

Ion Ratio Lower Upper

43 100

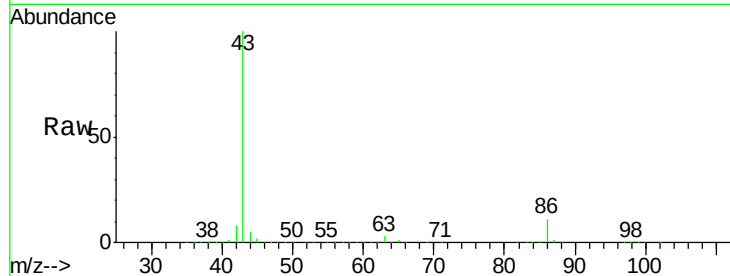
86 10.7 8.4 12.6

Manual Integrations

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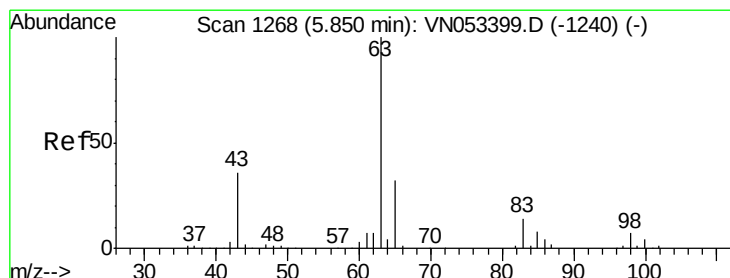
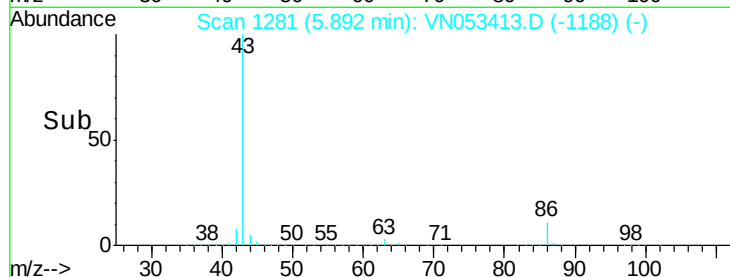
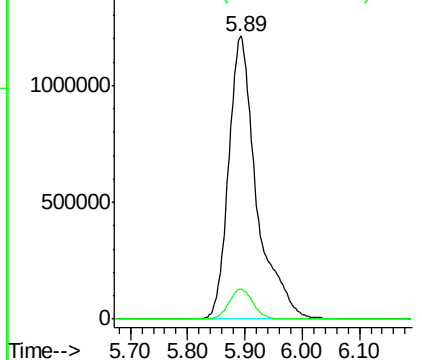
MMDadoda

1/17/2019 9:41:13 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 48.921 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VN053413.D

Acq: 16 Jan 2019 9:12

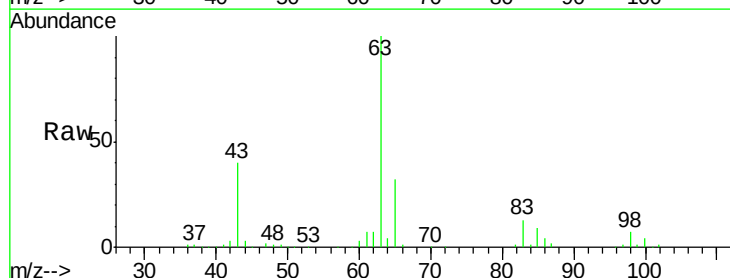
Tgt Ion: 63 Resp: 762663

Ion Ratio Lower Upper

63 100

98 6.6 3.3 9.9

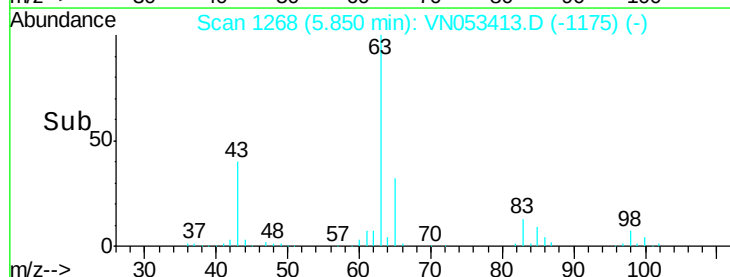
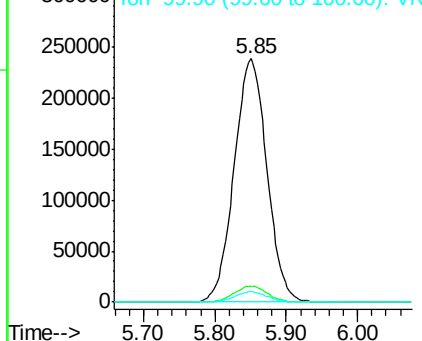
100 4.4 2.1 6.5

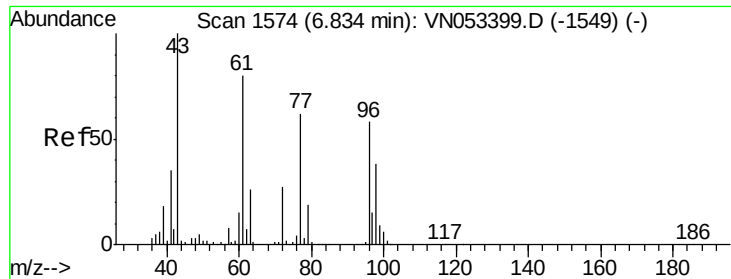


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





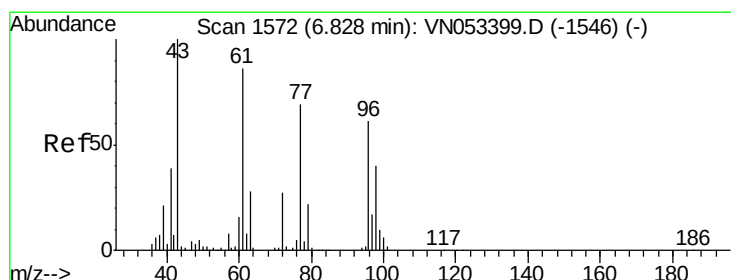
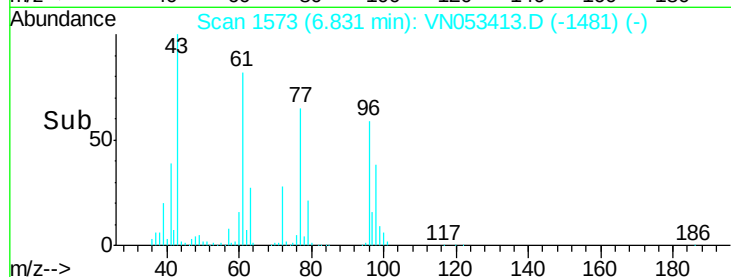
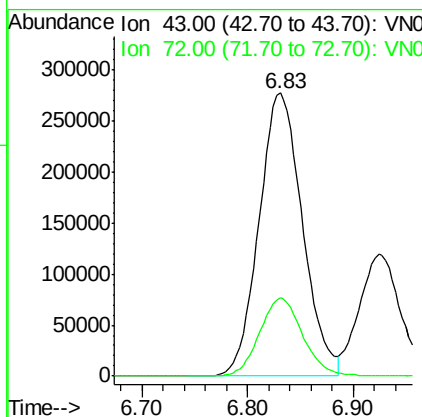
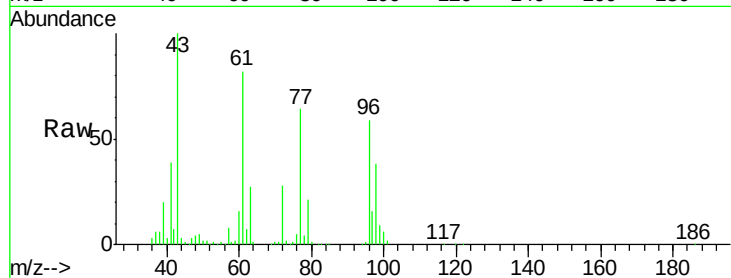
#25
 2-Butanone
 Concen: 253.495 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. -0.00 min
 Lab File: VN053413.D
 Acq: 16 Jan 2019 9:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 43 Resp: 791294
 Ion Ratio Lower Upper
 43 100
 72 27.6 22.0 33.0

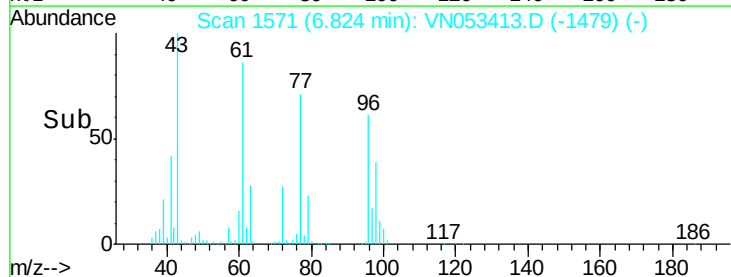
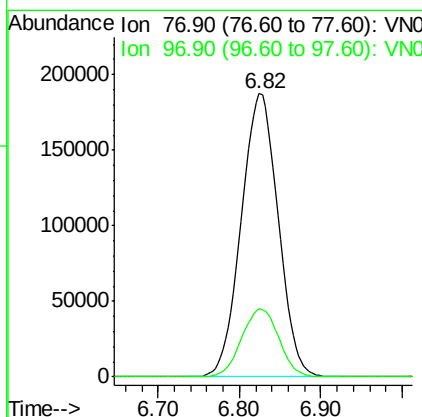
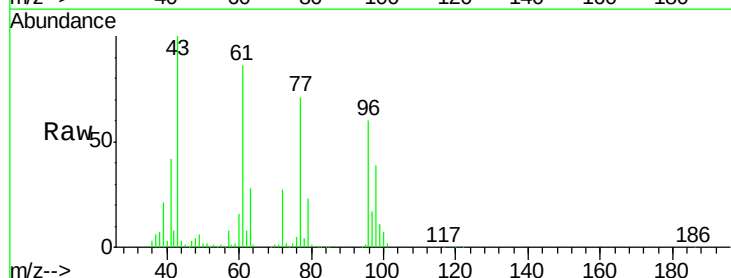
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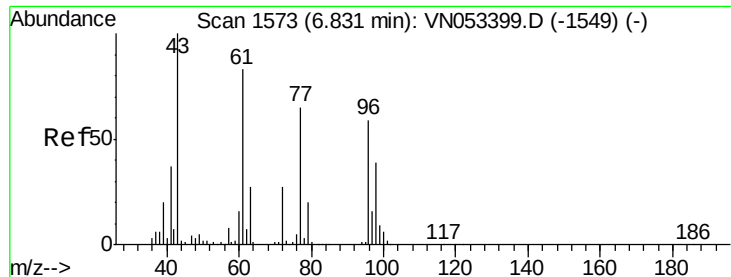
MMDadoda
 1/17/2019 9:41:13 AM



#26
 2,2-Dichloropropane
 Concen: 49.830 ug/l
 RT: 6.82 min Scan# 1571
 Delta R.T. -0.00 min
 Lab File: VN053413.D
 Acq: 16 Jan 2019 9:12

Tgt Ion: 77 Resp: 586522
 Ion Ratio Lower Upper
 77 100
 97 24.3 12.2 36.6





#27

cis-1,2-Dichloroethene

Concen: 49.853 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN053413.D

Acq: 16 Jan 2019 9:12

Instrument :

MSVOA_N

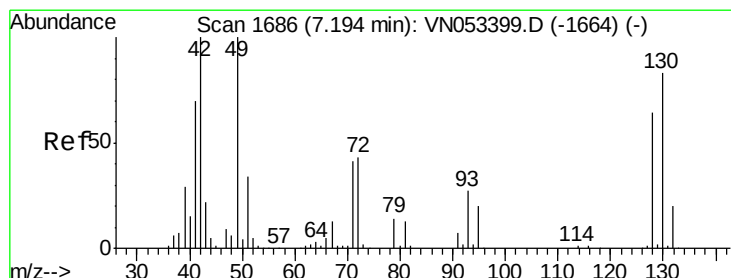
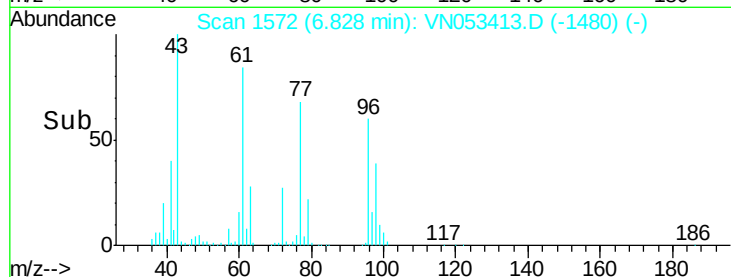
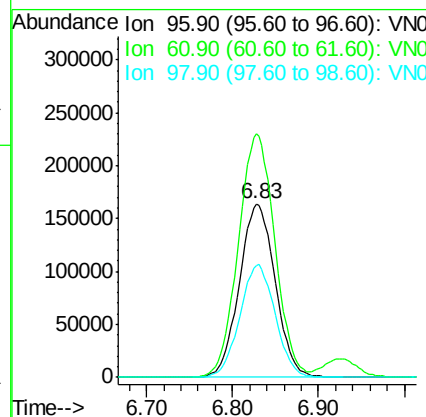
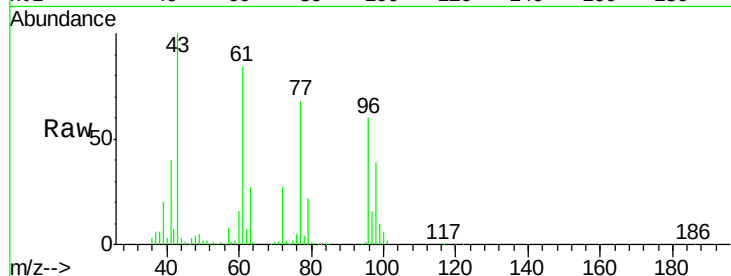
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	473987
Ion	Ratio	Lower	Upper
96	100		
61	142.8	0.0	283.8
98	64.6	0.0	129.2

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1/17/2019 9:41:13 AM



#28

Bromochloromethane

Concen: 49.533 ug/l

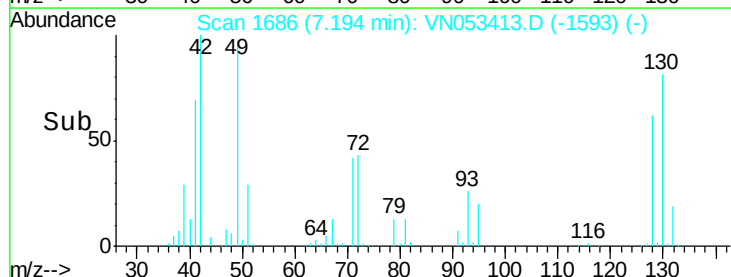
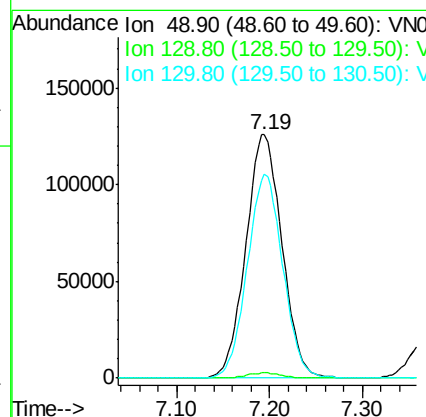
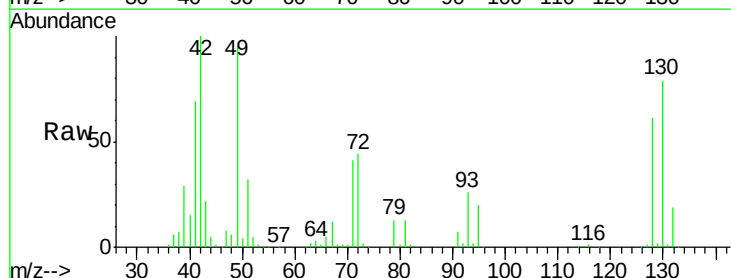
RT: 7.19 min Scan# 1686

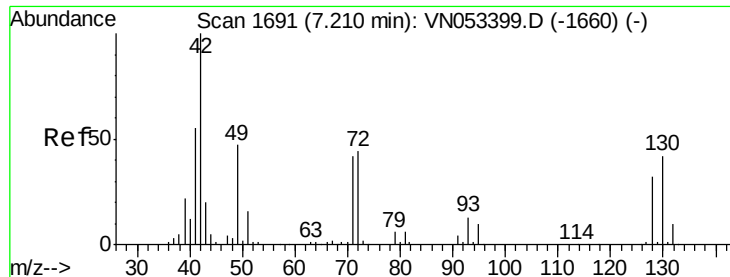
Delta R.T. -0.00 min

Lab File: VN053413.D

Acq: 16 Jan 2019 9:12

Tgt Ion:	49	Resp:	340185
Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.0
130	82.7	66.3	99.5





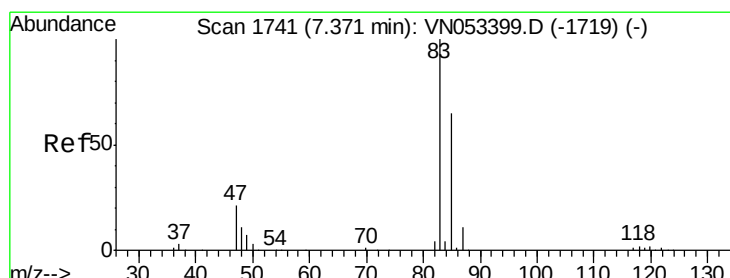
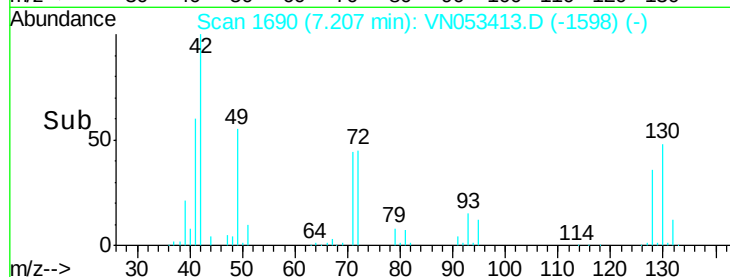
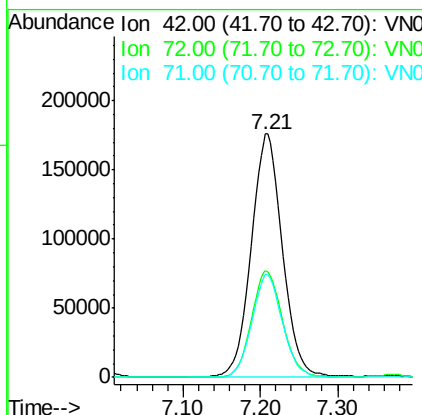
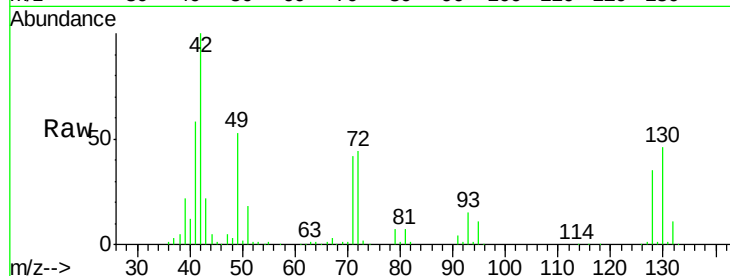
#29
Tetrahydrofuran
Concen: 243.604 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. -0.00 min
Lab File: VN053413.D
Acq: 16 Jan 2019 9:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.8	35.2	52.8
71	41.6	33.0	49.4

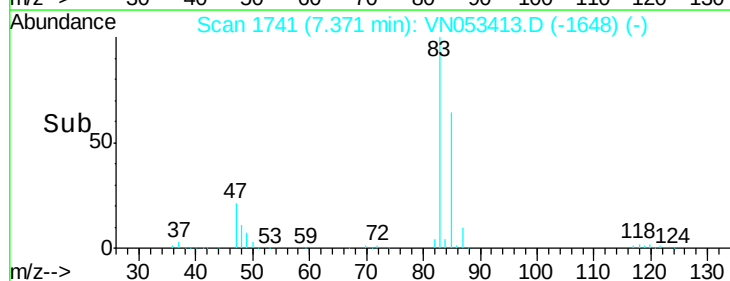
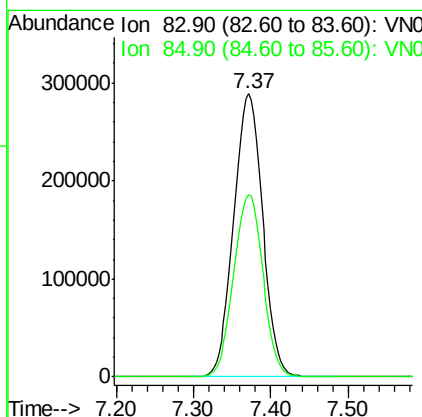
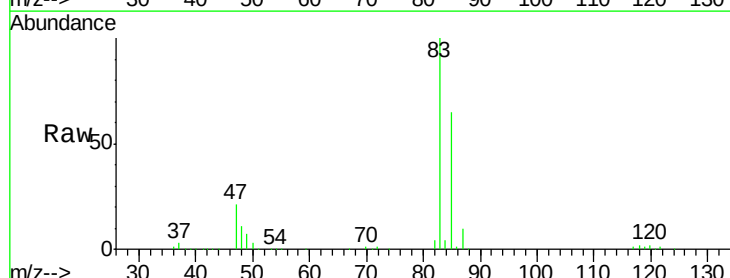
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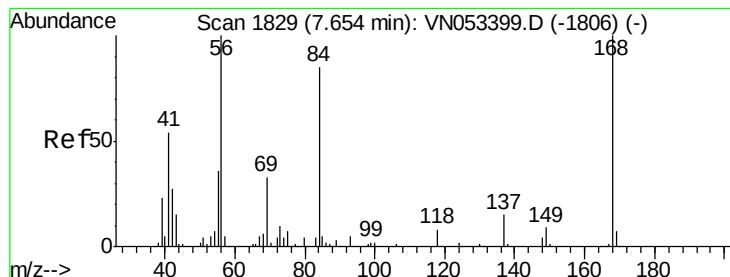
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#30
Chloroform
Concen: 49.440 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN053413.D
Acq: 16 Jan 2019 9:12

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.5	52.2	78.2





#31

Cyclohexane

Concen: 49.319 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN053413.D

Acq: 16 Jan 2019 9:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 748296

Ion Ratio Lower Upper

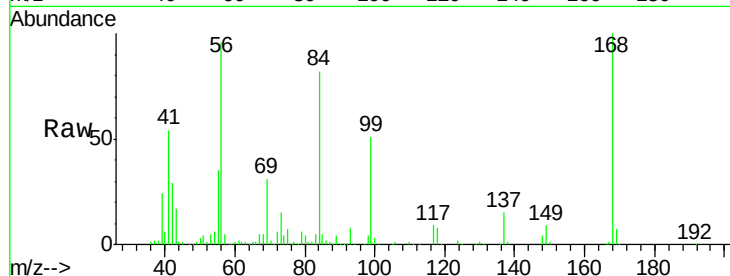
56 100

69 32.6 26.4 39.6

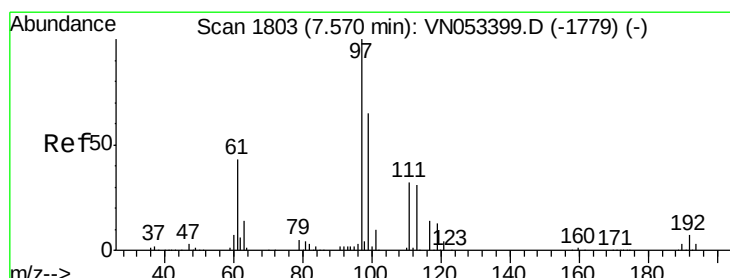
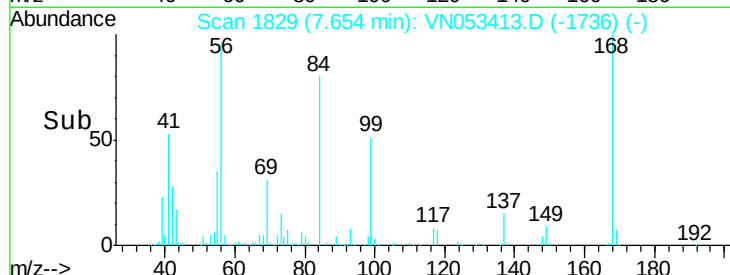
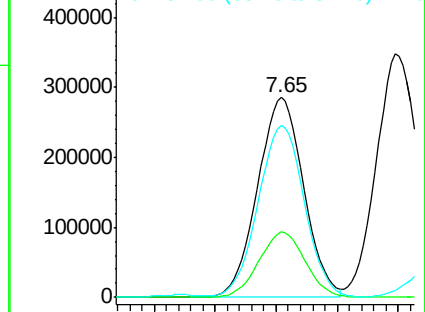
84 84.8 67.9 101.9

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



#32

1,1,1-Trichloroethane

Concen: 49.231 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VN053413.D

Acq: 16 Jan 2019 9:12

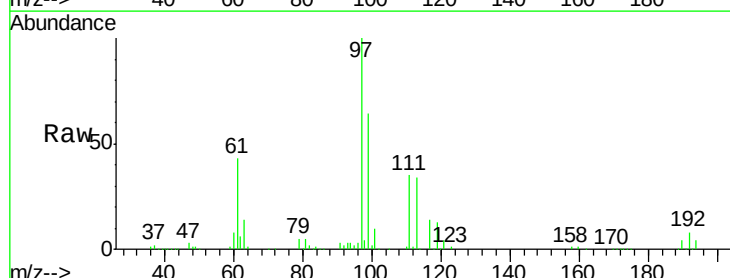
Tgt Ion: 97 Resp: 634328

Ion Ratio Lower Upper

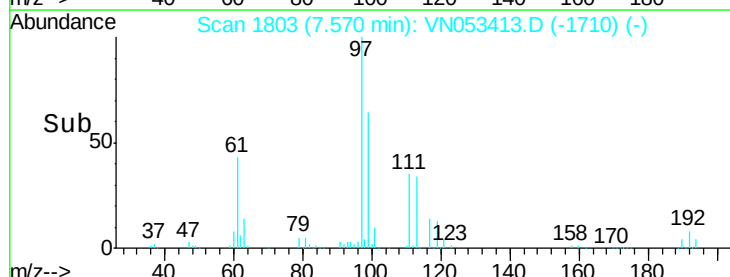
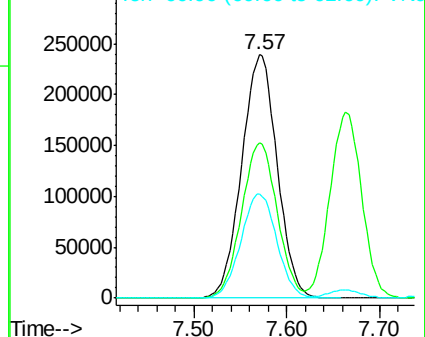
97 100

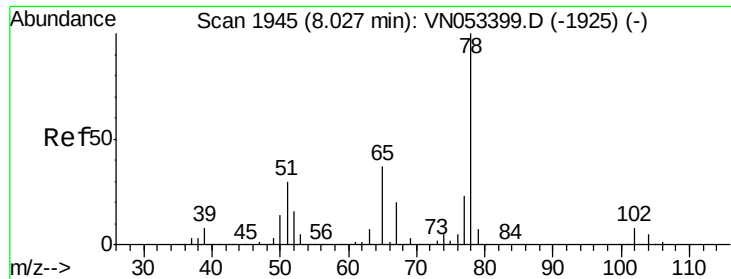
99 64.2 52.0 78.0

61 43.5 34.4 51.6



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





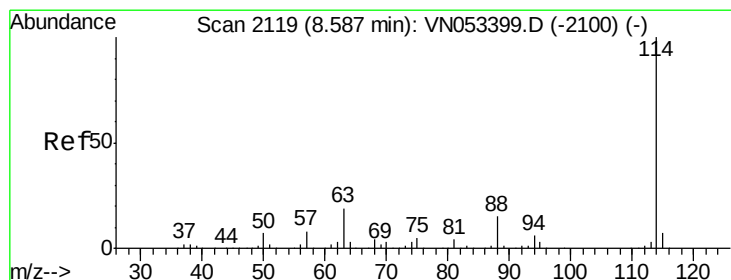
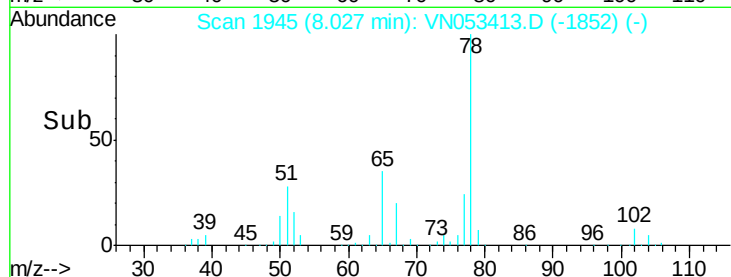
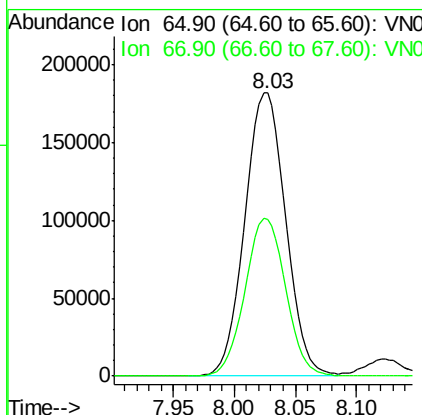
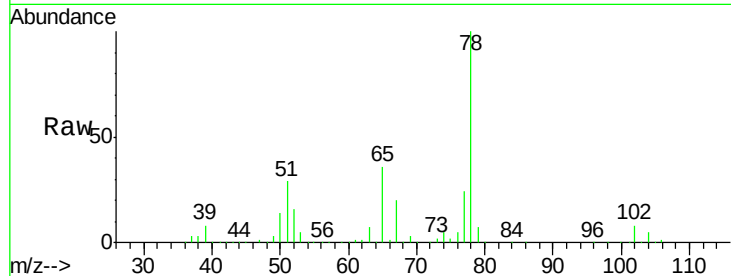
#33
 1,2-Dichloroethane-d4
 Concen: 49.231 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN053413.D
 Acq: 16 Jan 2019 9:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	55.3	0.0	111.2	

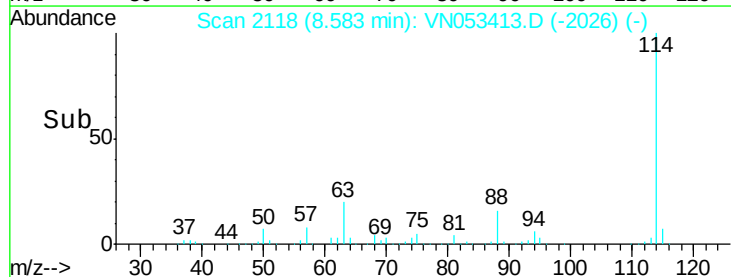
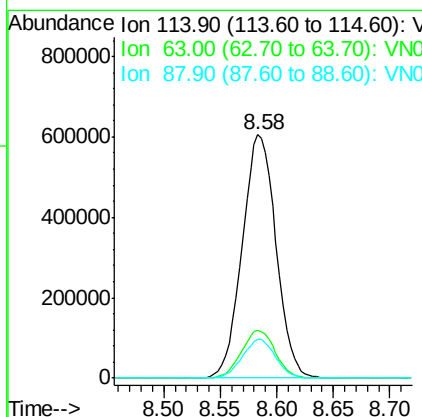
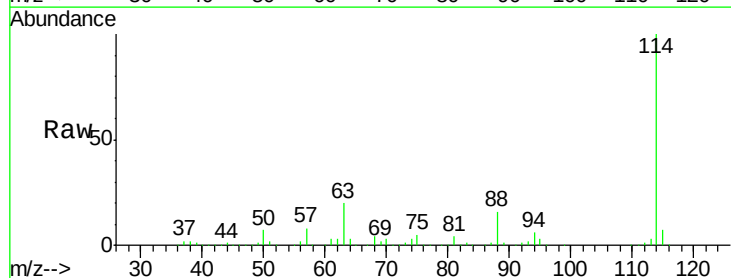
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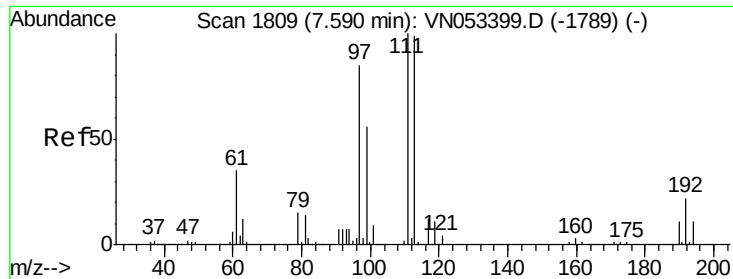
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN053413.D
 Acq: 16 Jan 2019 9:12

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	19.6	0.0	38.6	
88	15.9	0.0	30.4	





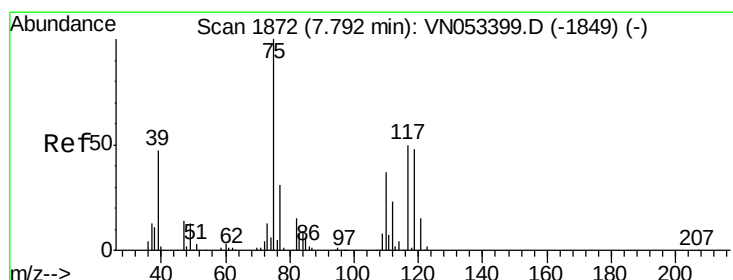
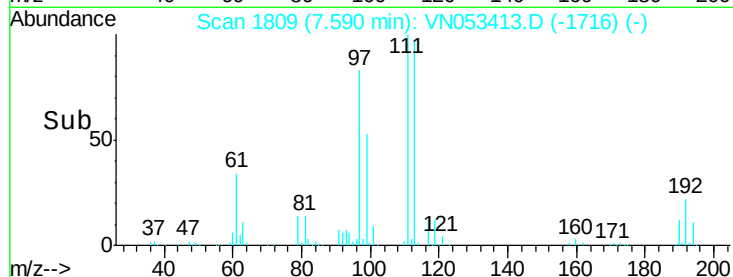
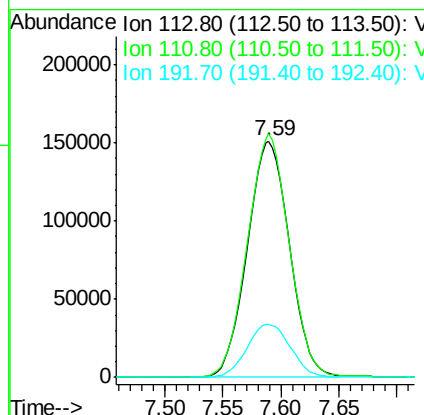
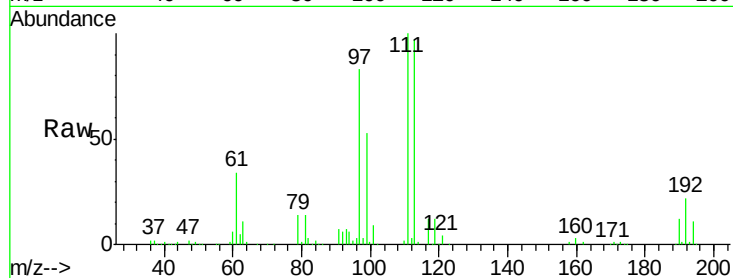
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN053413.D
 Acq: 16 Jan 2019 9:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	381705		
111	102.5	81.1	121.7	
192	23.1	18.2	27.2	

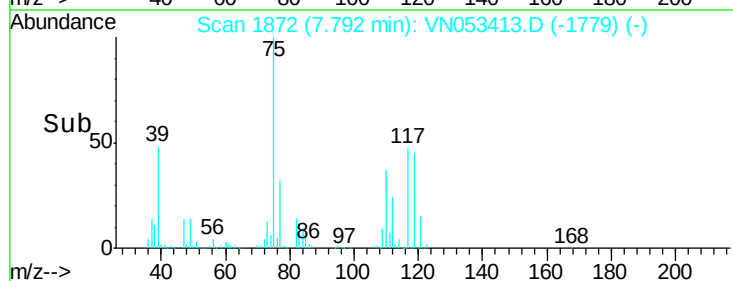
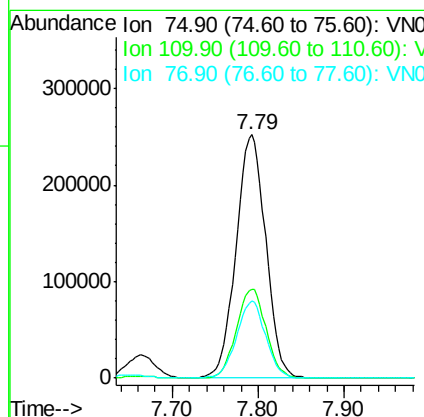
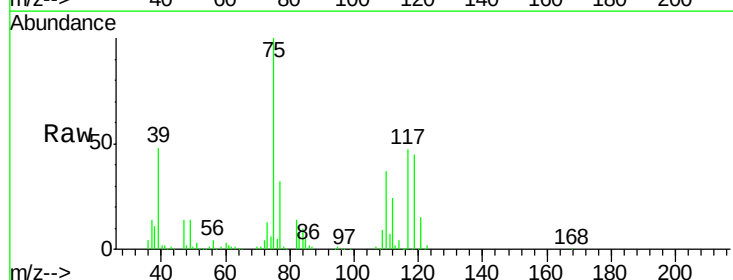
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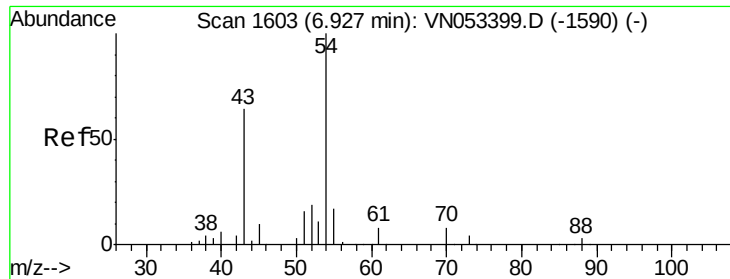
MMDadoda
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#36
 1,1-Dichloropropene
 Concen: 52.609 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. -0.00 min
 Lab File: VN053413.D
 Acq: 16 Jan 2019 9:12

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	603118		
110	36.5	18.1	54.3	
77	31.2	25.1	37.7	





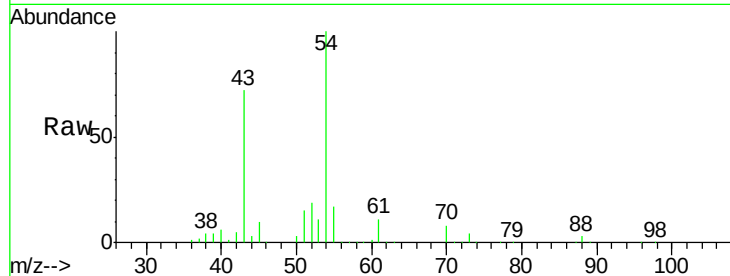
#37
Ethyl Acetate
Concen: 50.446 ug/l
RT: 6.92 min Scan# 1602
Delta R.T. -0.00 min
Lab File: VN053413.D
Acq: 16 Jan 2019 9:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

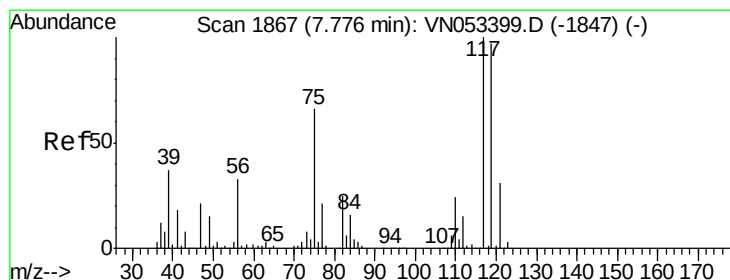
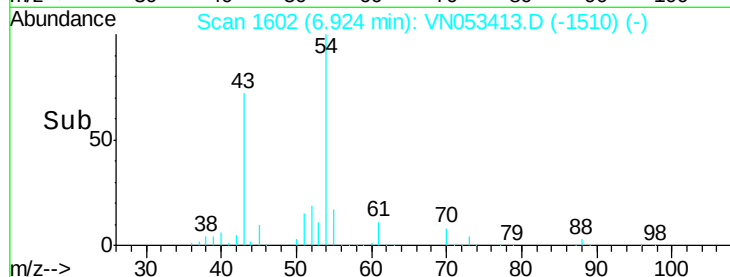
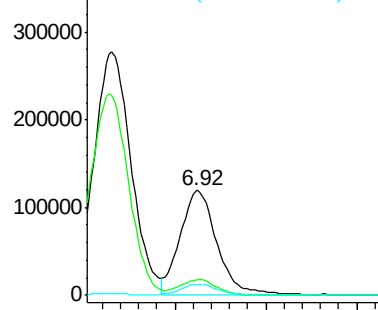
Tot Ion	Ratio	Lower	Upper
43	100		
61	14.2	11.8	17.6
70	10.4	8.6	12.8

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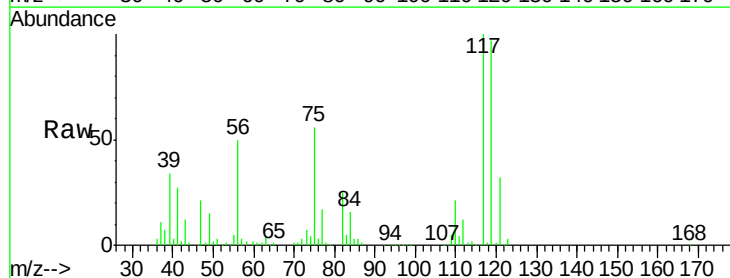


Abundance Ion 43.00 (42.70 to 43.70): VN053399.D (-1590) (-)

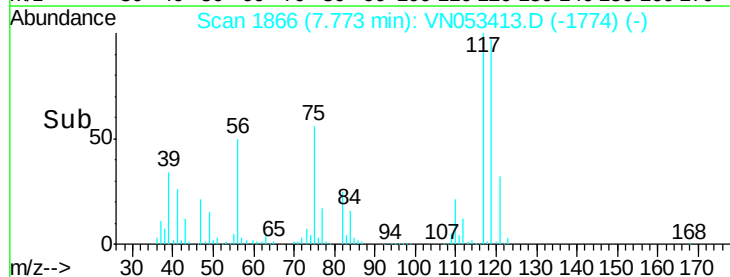
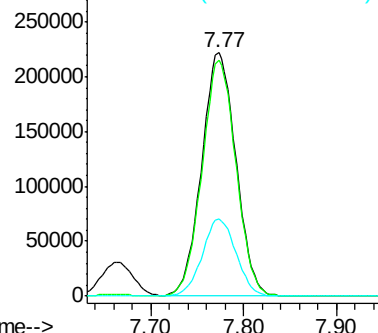


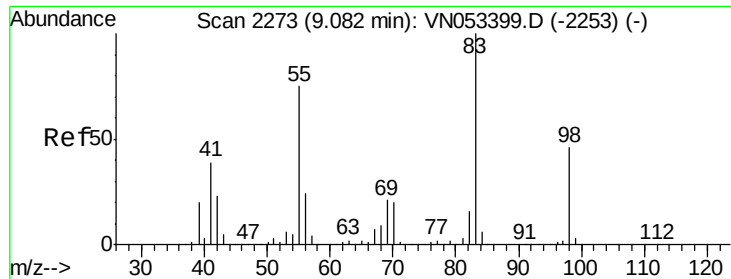
#38
Carbon Tetrachloride
Concen: 52.311 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN053413.D
Acq: 16 Jan 2019 9:12

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.9	77.2	115.8
121	31.6	24.6	37.0



Abundance Ion 116.80 (116.50 to 117.50): VN053399.D (-1847) (-)





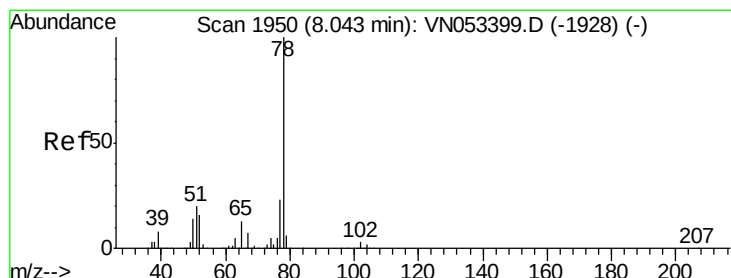
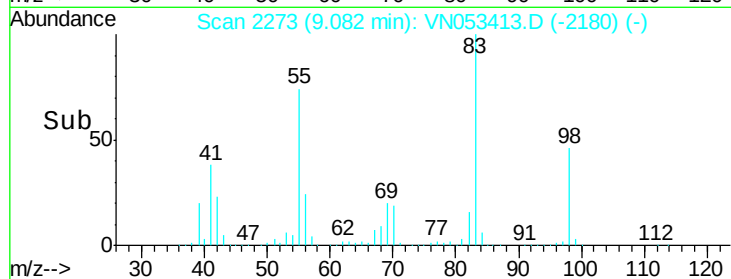
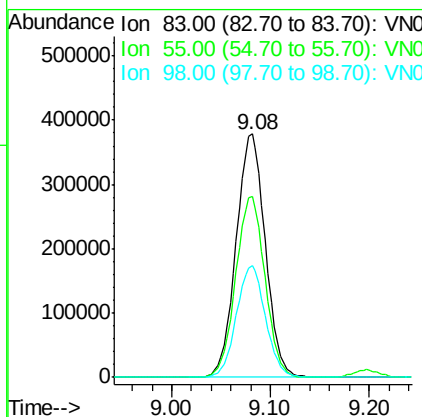
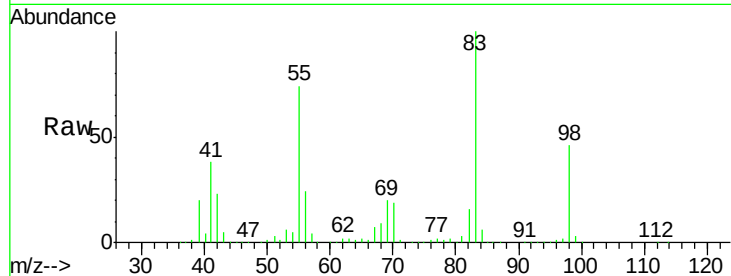
#39
Methylvlcyclohexane
Concen: 54.723 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN053413.D
Acq: 16 Jan 2019 9:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	83.00	Resp	775411
Ion Ratio	100	Lower	Upper
83	100		
55	74.3	60.1	90.1
98	45.7	36.6	55.0

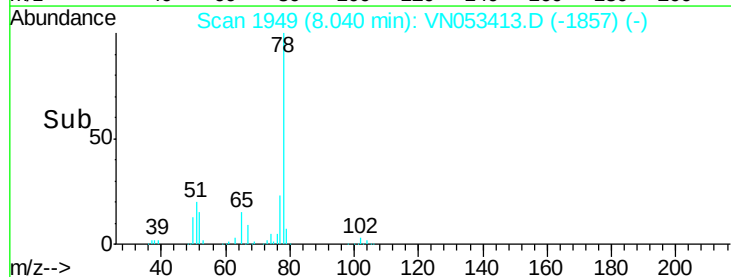
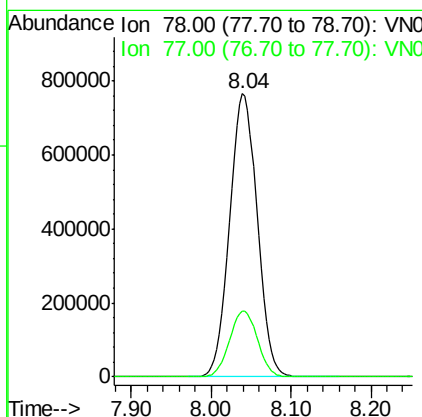
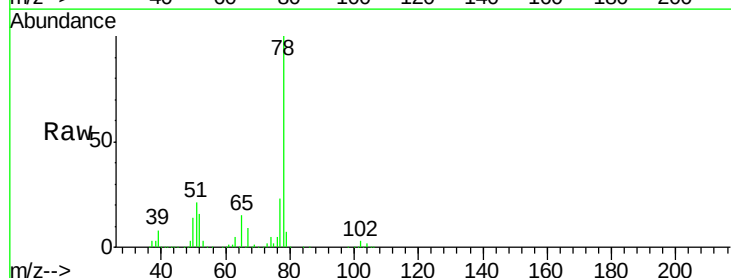
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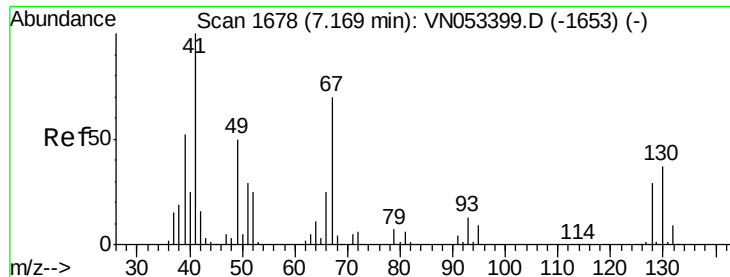
MMDadoda
1/17/2019 9:41:13 AM



#40
Benzene
Concen: 51.360 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN053413.D
Acq: 16 Jan 2019 9:12

Tgt Ion	78.00	Resp	1789277
Ion Ratio	100	Lower	Upper
78	100		
77	23.2	18.8	28.2





#41

Methacrylonitrile

Concen: 45.080 ug/l

RT: 7.17 min Scan# 1678

Delta R.T. 0.00 min

Lab File: VN053413.D

Acq: 16 Jan 2019 9:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 41 Resp: 176417
Ion Ratio Lower Upper

41 100

39 59.5 46.8 70.2

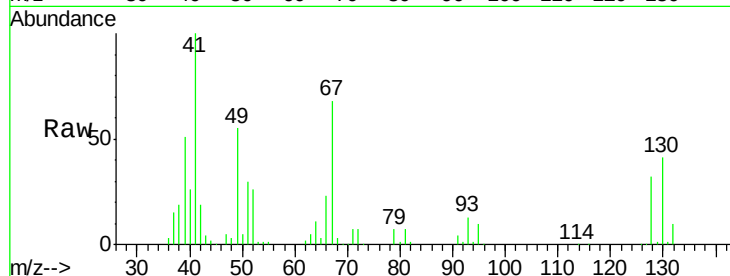
67 89.1 63.0 94.6

52 34.3 23.8 35.8

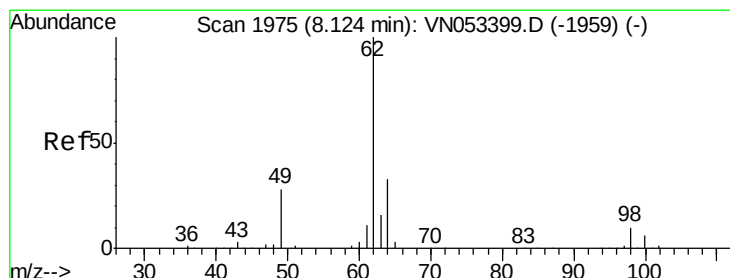
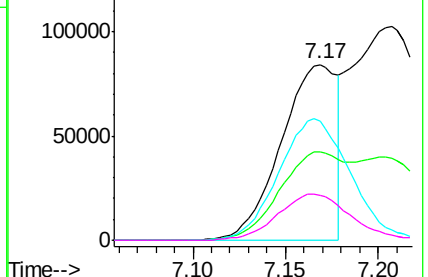
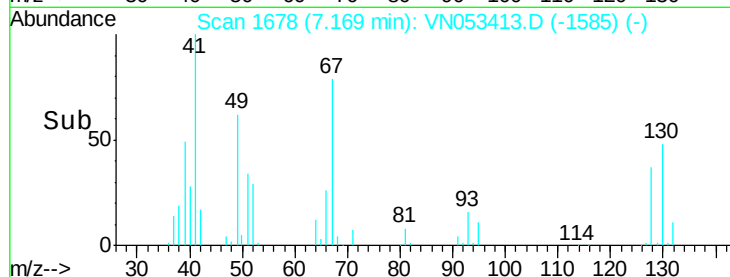
Manual Integrations
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Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 39.00 (38.70 to 39.70): VNC
Ion 67.00 (66.70 to 67.70): VNC
Ion 52.00 (51.70 to 52.70): VNC



#42

1,2-Dichloroethane

Concen: 50.885 ug/l

RT: 8.12 min Scan# 1975

Delta R.T. -0.00 min

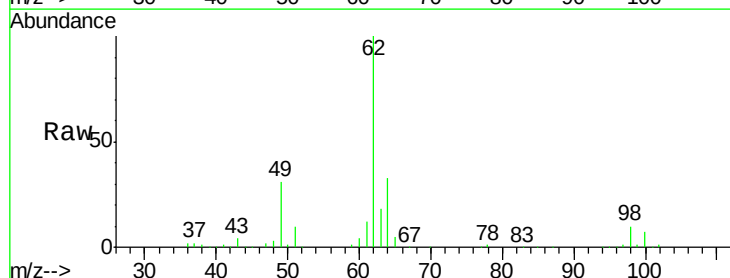
Lab File: VN053413.D

Acq: 16 Jan 2019 9:12

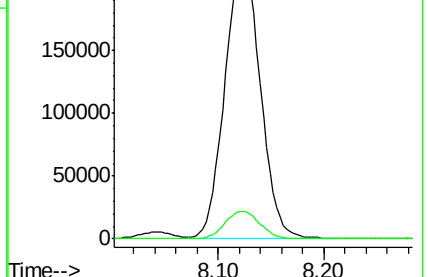
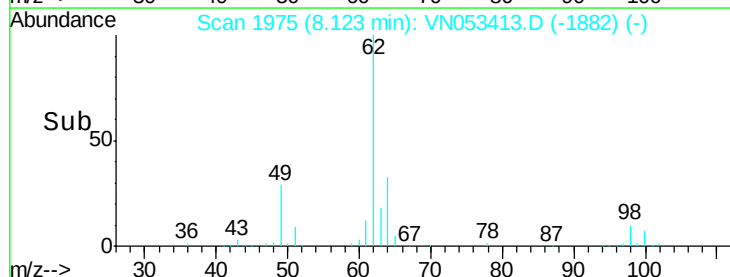
Tgt Ion: 62 Resp: 516438
Ion Ratio Lower Upper

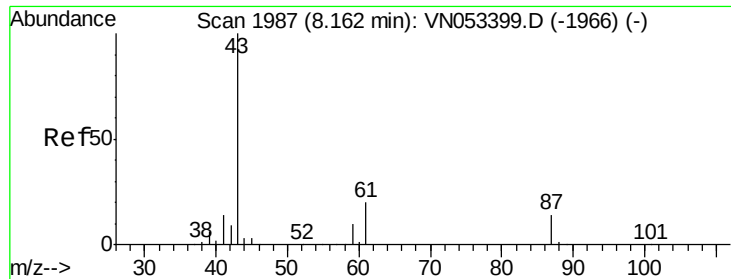
62 100

98 9.8 0.0 19.6



Abundance Ion 61.90 (61.60 to 62.60): VNC
Ion 97.90 (97.60 to 98.60): VNC





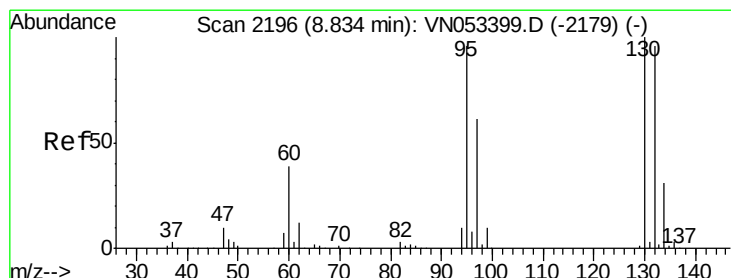
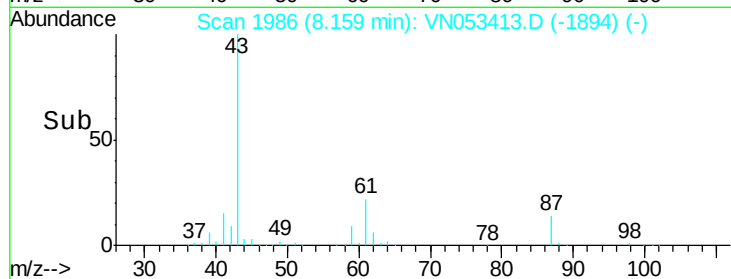
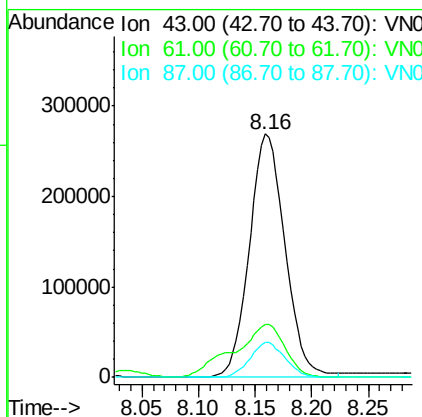
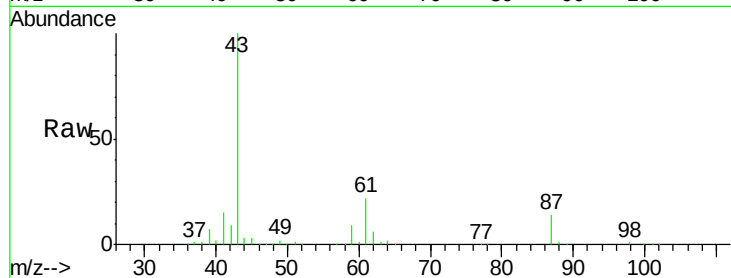
#43
Isopropyl Acetate
Concen: 49.709 ug/l
RT: 8.16 min Scan# 1986
Delta R.T. -0.00 min
Lab File: VN053413.D
Acq: 16 Jan 2019 9:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	30.9	23.9	35.9
87	14.1	11.0	16.6

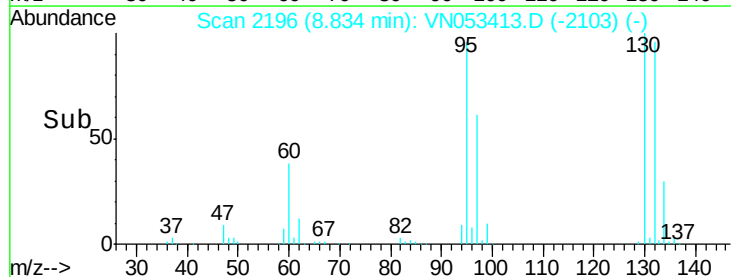
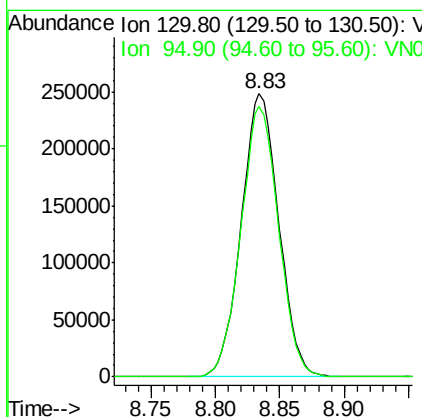
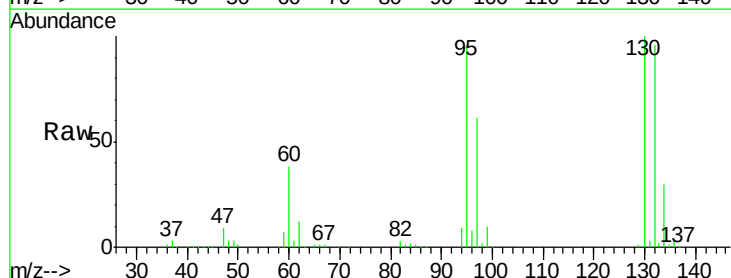
Manual Integrations
APPROVED

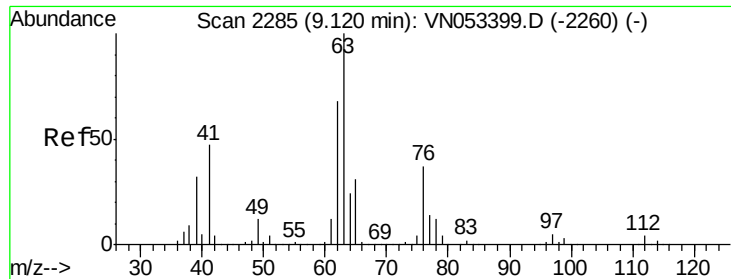
MMDadoda
1/17/2019 9:41:13 AM



#44
Trichloroethene
Concen: 52.012 ug/l
RT: 8.83 min Scan# 2196
Delta R.T. -0.00 min
Lab File: VN053413.D
Acq: 16 Jan 2019 9:12

Tgt Ion	Ratio	Lower	Upper
130	100		
95	95.7	0.0	191.4





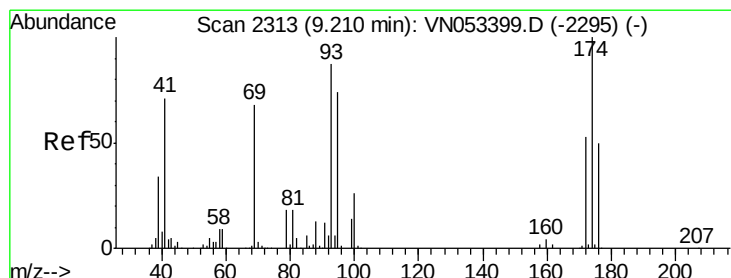
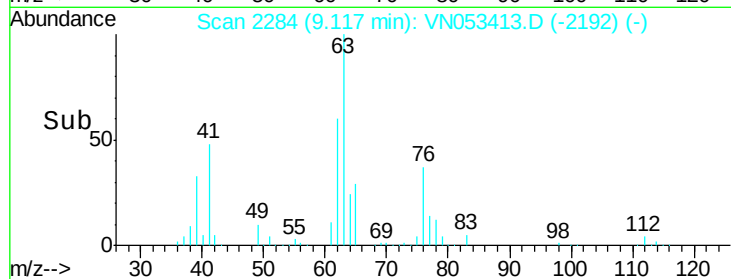
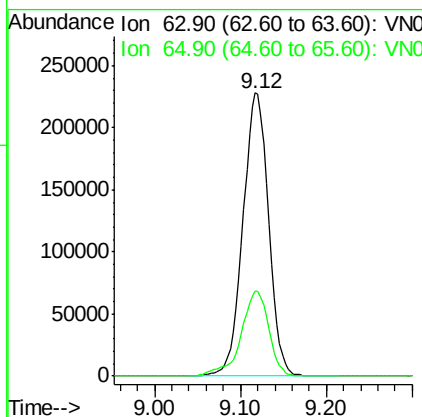
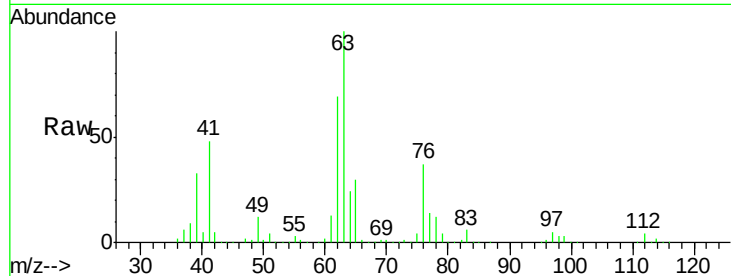
#45
 1,2-Dichloropropane
 Concen: 51.161 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN053413.D
 Acq: 16 Jan 2019 9:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 63 Resp: 472087
 Ion Ratio Lower Upper
 63 100
 65 30.0 25.0 37.4

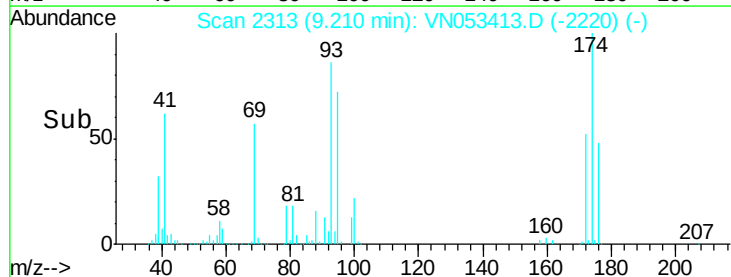
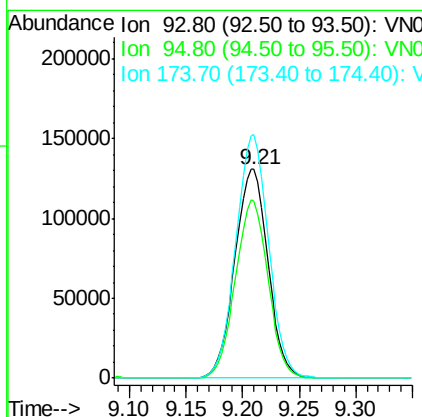
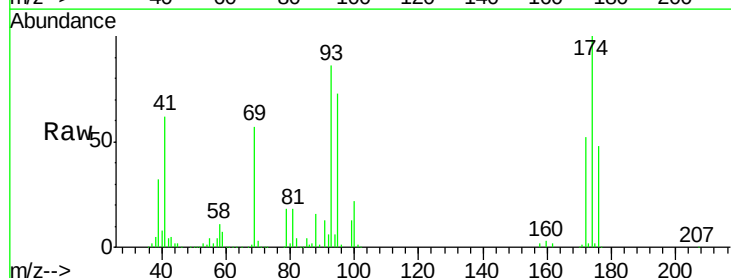
Manual Integrations
 APPROVED

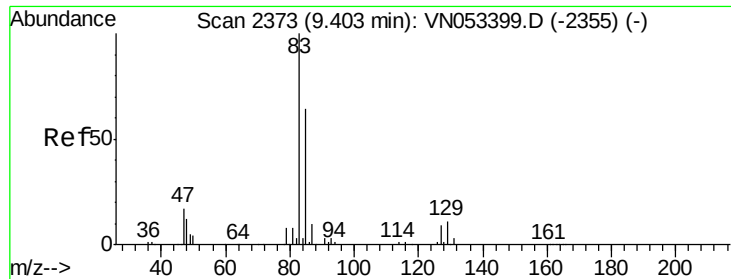
MMDadoda
 1/17/2019 9:41:13 AM



#46
 Dibromomethane
 Concen: 50.568 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. -0.00 min
 Lab File: VN053413.D
 Acq: 16 Jan 2019 9:12

Tgt Ion: 93 Resp: 268088
 Ion Ratio Lower Upper
 93 100
 95 83.5 67.3 100.9
 174 114.9 91.0 136.4





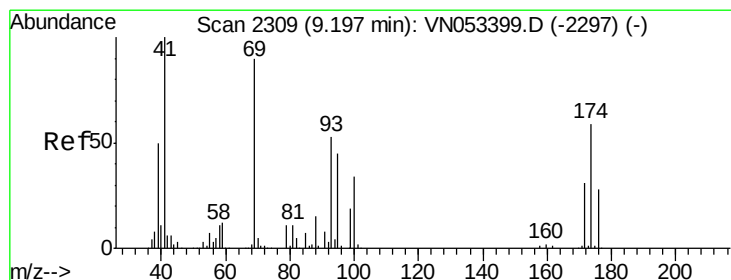
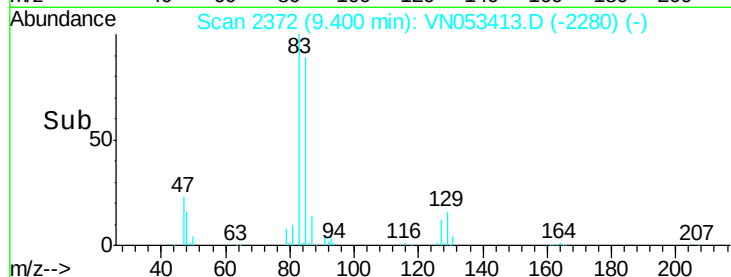
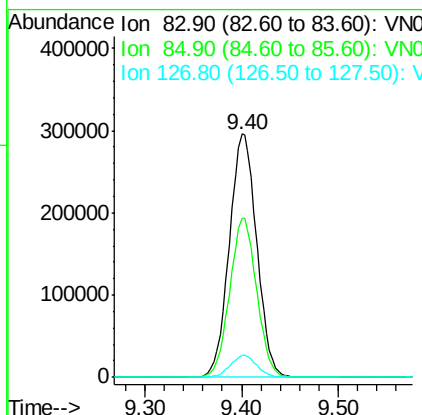
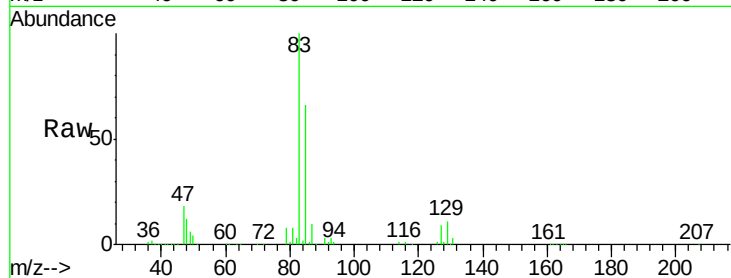
#47
Bromodichloromethane
Concen: 52.117 ug/l
RT: 9.40 min Scan# 2372
Delta R.T. -0.00 min
Lab File: VN053413.D
Acq: 16 Jan 2019 9:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100	581050		
85	65.6		51.0	76.6
127	9.0		7.0	10.6

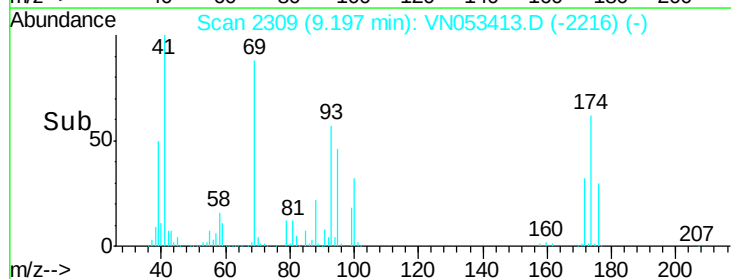
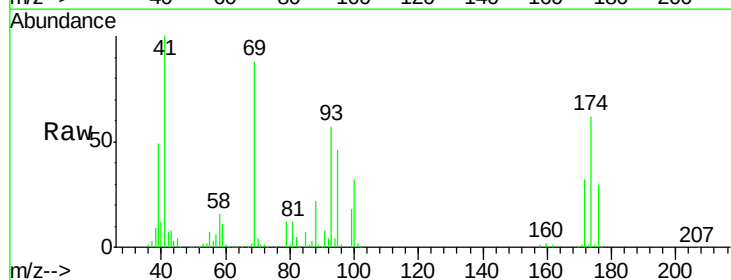
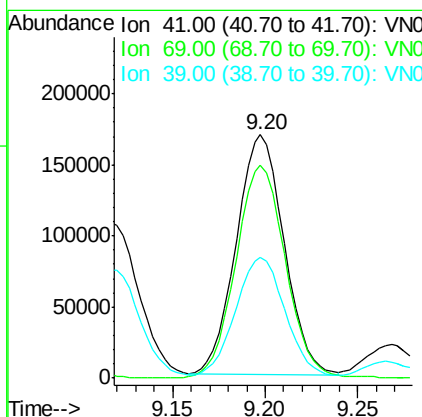
Manual Integrations
APPROVED

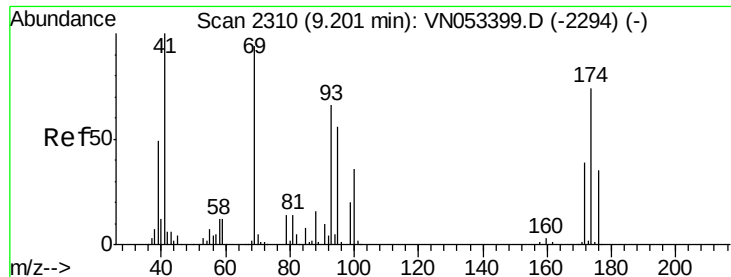
MMDadoda
1/17/2019 9:41:13 AM



#48
Methyl methacrylate
Concen: 49.523 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN053413.D
Acq: 16 Jan 2019 9:12

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	303257		
69	92.8		73.8	110.6
39	53.1		40.0	60.0





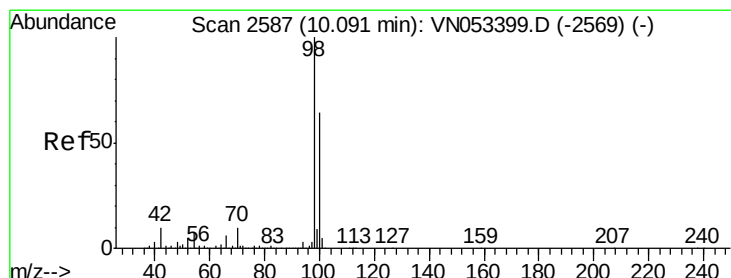
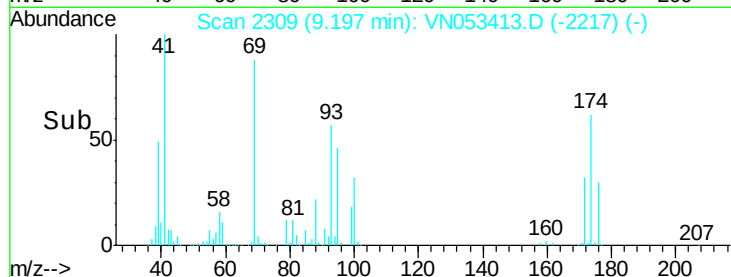
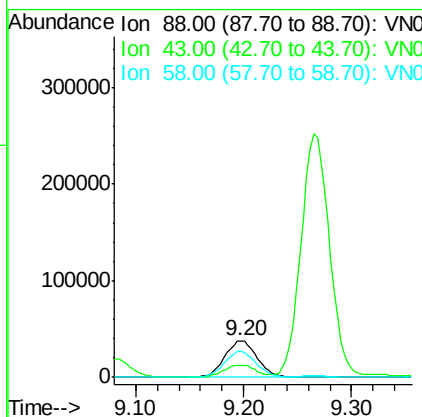
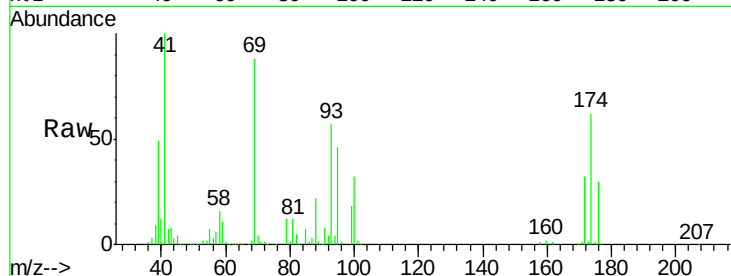
#49
1,4-Dioxane
Concen: 1328.598 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN053413.D
Acq: 16 Jan 2019 9:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	88	Resp	79455
Ion	Ratio	Lower	Upper
88	100		
43	32.0	27.8	41.6
58	68.9	56.5	84.7

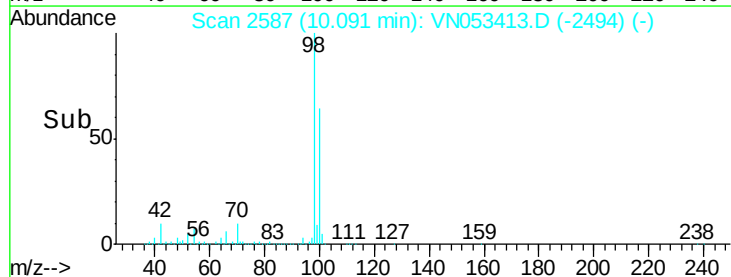
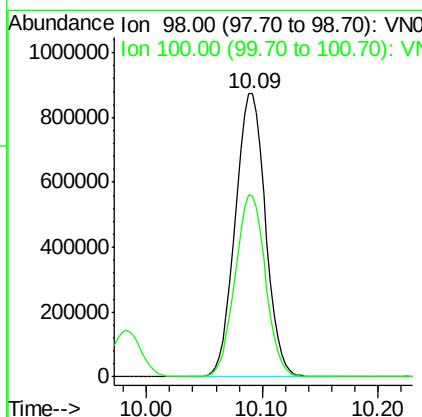
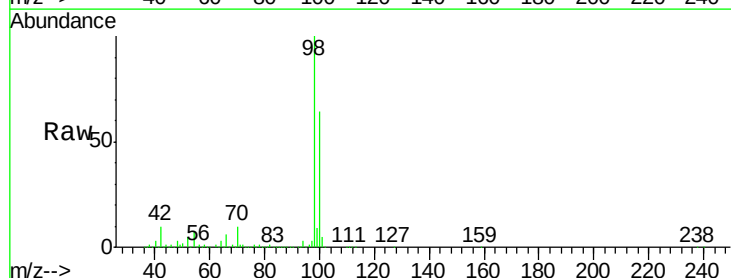
Manual Integrations
APPROVED

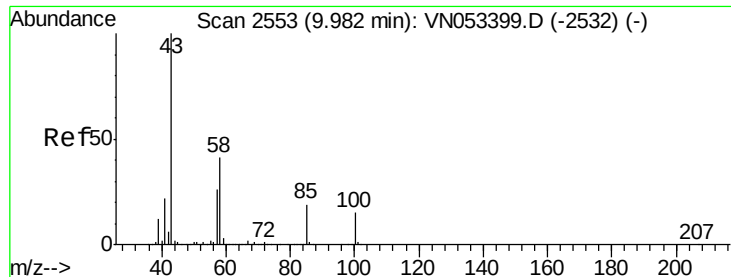
MMDadoda
1/17/2019 9:41:13 AM



#50
Toluene-d8
Concen: 1328.598 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN053413.D
Acq: 16 Jan 2019 9:12

Tgt Ion	98	Resp	1579073
Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.4	77.0





#51

4-Methyl-2-Pentanone

Concen: 257.024 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN053413.D

Acq: 16 Jan 2019 9:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1664025

Ion Ratio Lower Upper

43 100

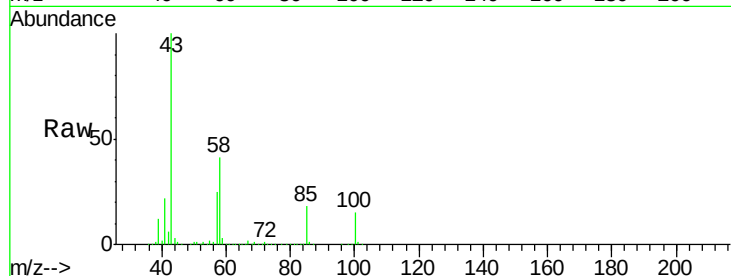
58 40.9 32.8 49.2

Manual Integrations

APPROVED

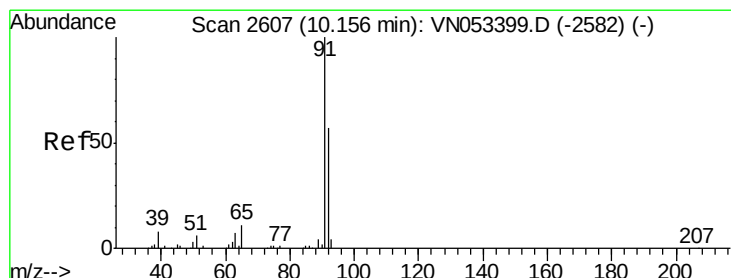
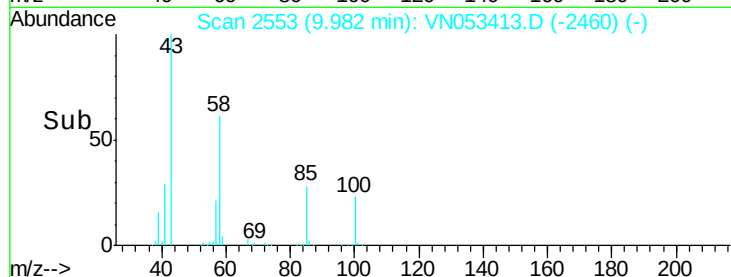
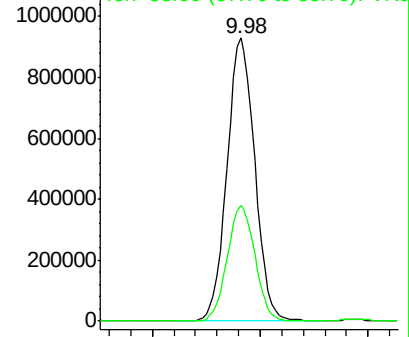
MMDadoda

1/17/2019 9:41:13 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 51.560 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN053413.D

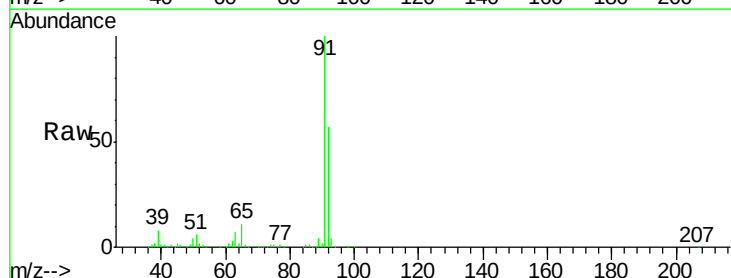
Acq: 16 Jan 2019 9:12

Tgt Ion: 92 Resp: 1115145

Ion Ratio Lower Upper

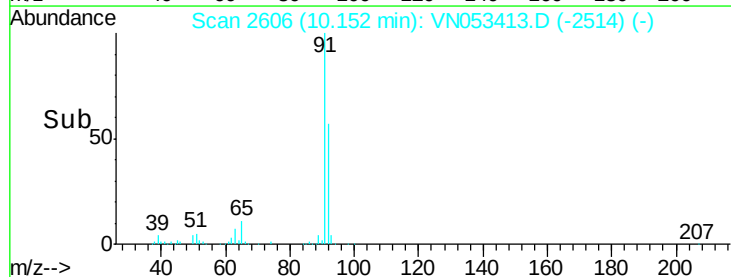
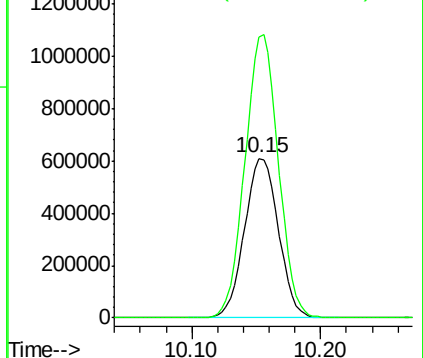
92 100

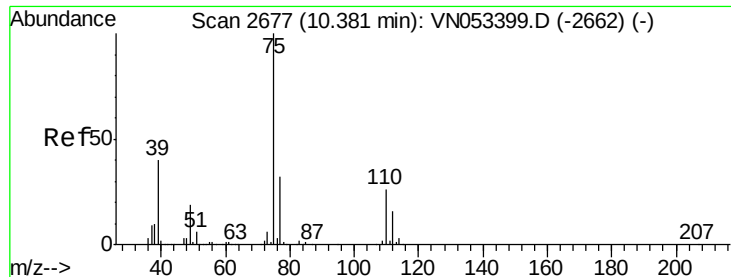
91 175.3 139.9 209.9



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





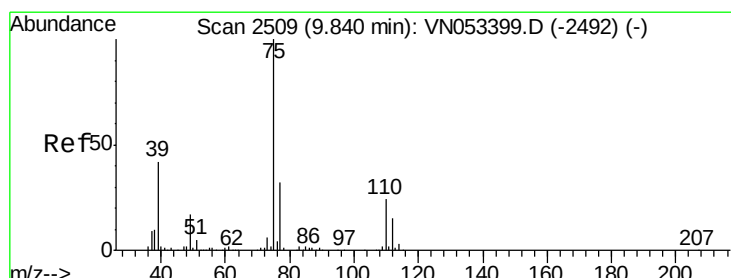
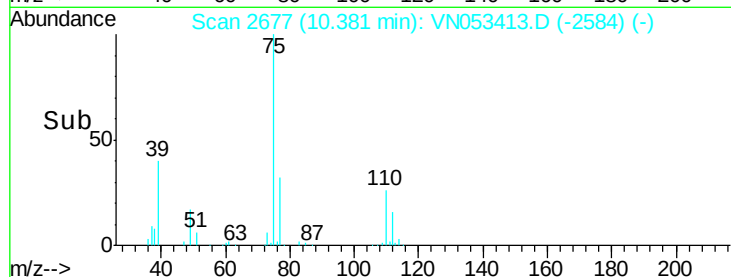
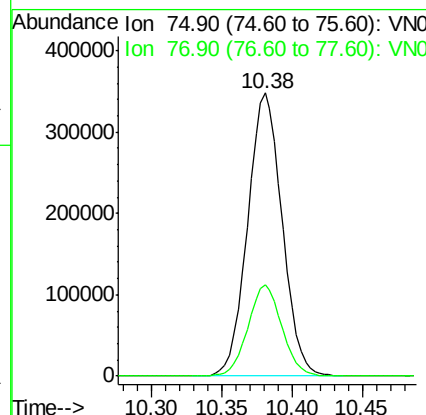
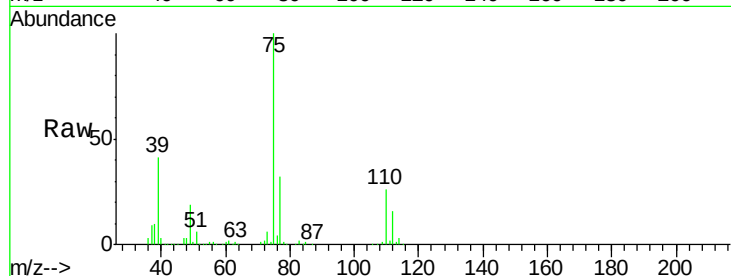
#53
t-1,3-Dichloropropene
Concen: 52.796 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN053413.D
Acq: 16 Jan 2019 9:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.5	38.3

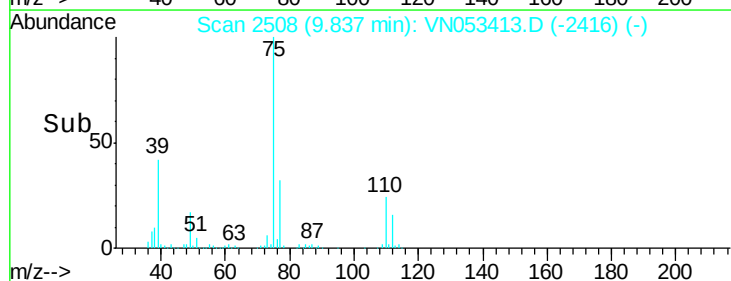
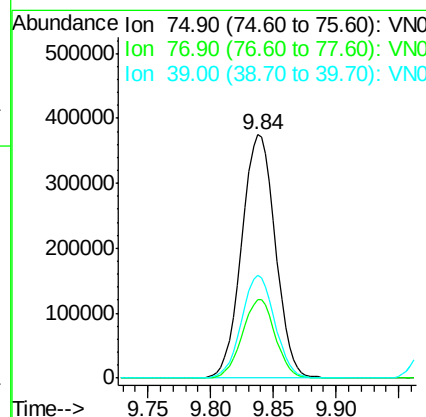
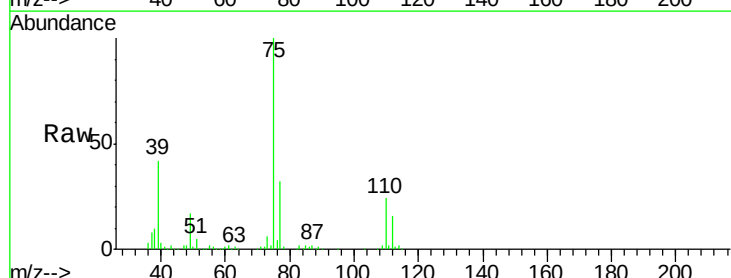
Manual Integrations
APPROVED

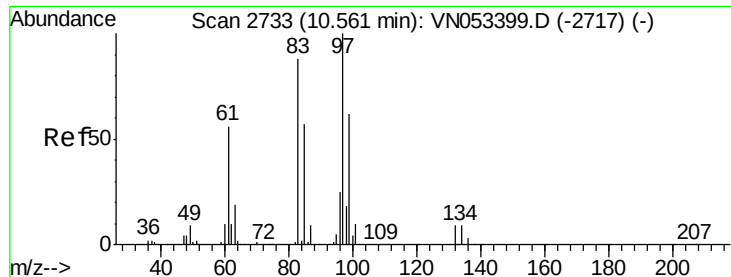
MMDadoda
1/17/2019 9:41:13 AM



#54
cis-1,3-Dichloropropene
Concen: 52.902 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. -0.00 min
Lab File: VN053413.D
Acq: 16 Jan 2019 9:12

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.8	38.6
39	42.3	33.4	50.0





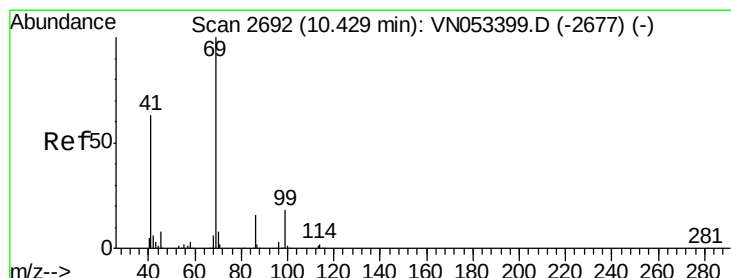
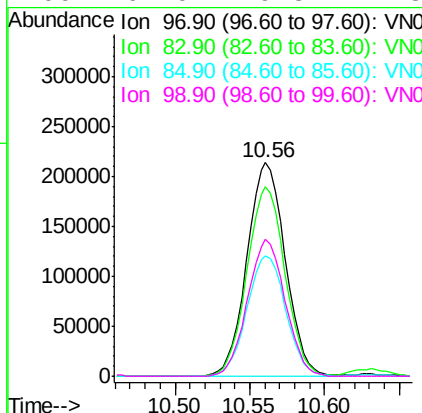
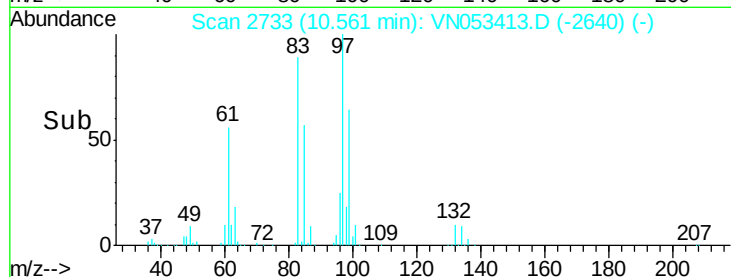
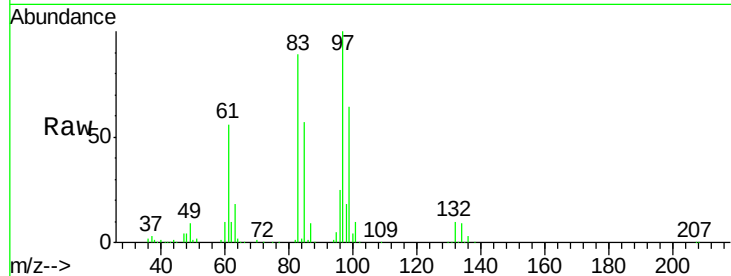
#55
 1,1,2-Trichloroethane
 Concen: 51.098 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN053413.D
 Acq: 16 Jan 2019 9:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		381012		
83	88.6	70.1	105.1		
85	56.6	45.4	68.0		
99	64.0	49.8	74.8		

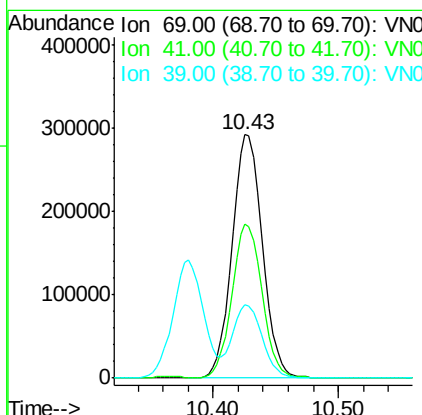
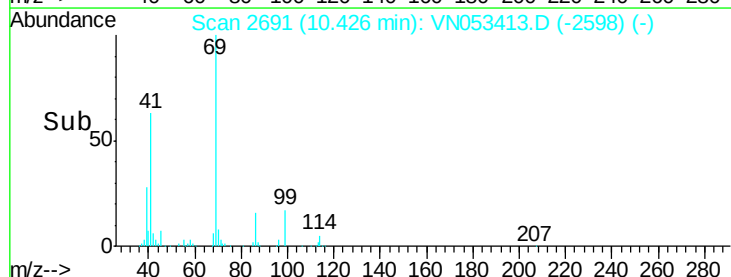
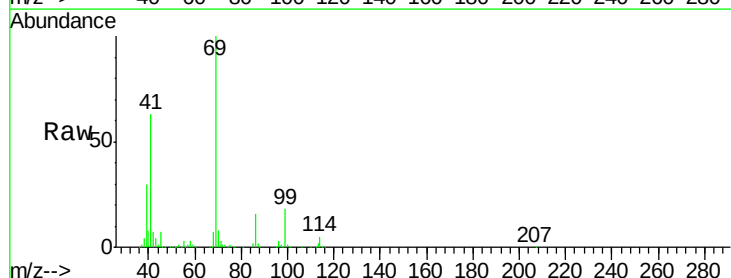
Manual Integrations
 APPROVED

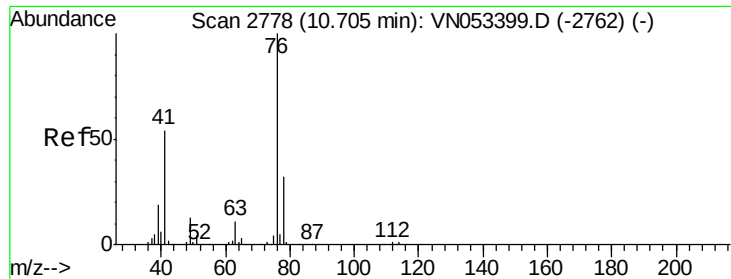
MMDadoda
 1/17/2019 9:41:13 AM



#56
 Ethyl methacrylate
 Concen: 46.585 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. -0.00 min
 Lab File: VN053413.D
 Acq: 16 Jan 2019 9:12

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		491410		
41	62.4	49.4	74.0		
39	29.5	23.3	34.9		





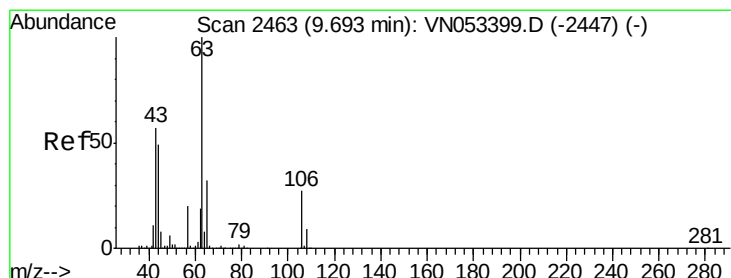
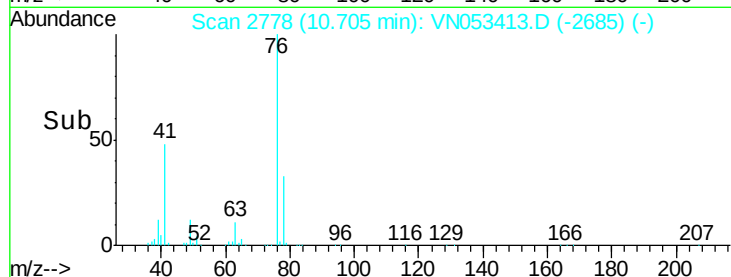
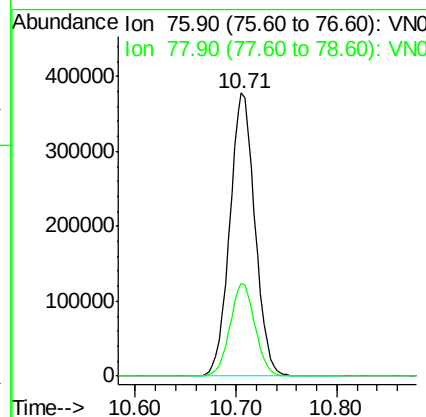
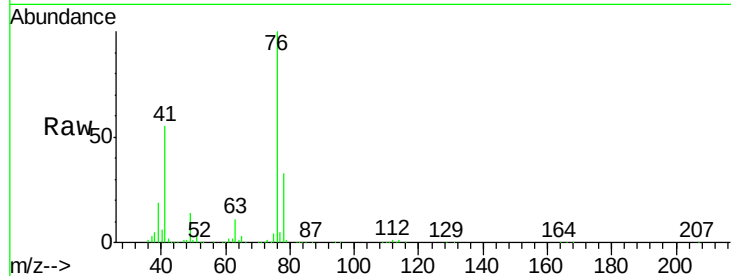
#57
 1,3-Dichloropropane
 Concen: 51.036 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. -0.00 min
 Lab File: VN053413.D
 Acq: 16 Jan 2019 9:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.6	38.4

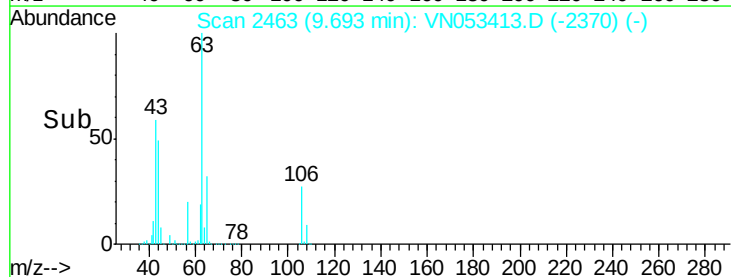
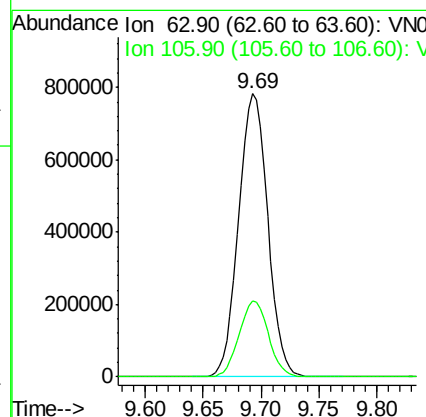
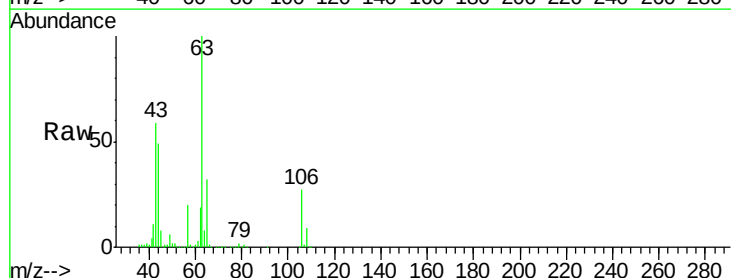
Manual Integrations
 APPROVED

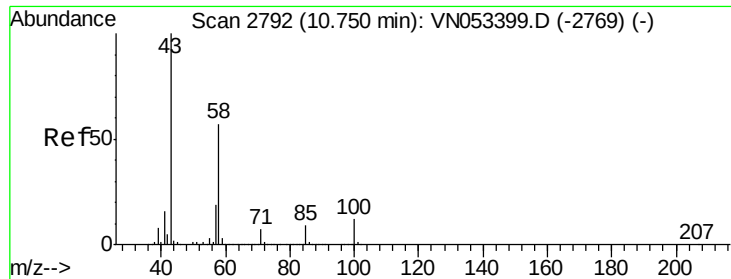
MMDadoda
 1/17/2019 9:41:13 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 261.650 ug/l
 RT: 9.69 min Scan# 2463
 Delta R.T. -0.00 min
 Lab File: VN053413.D
 Acq: 16 Jan 2019 9:12

Tgt Ion	Ratio	Lower	Upper
63	100		
106	27.0	21.5	32.3





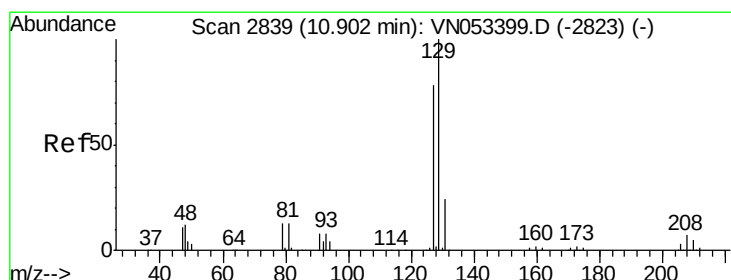
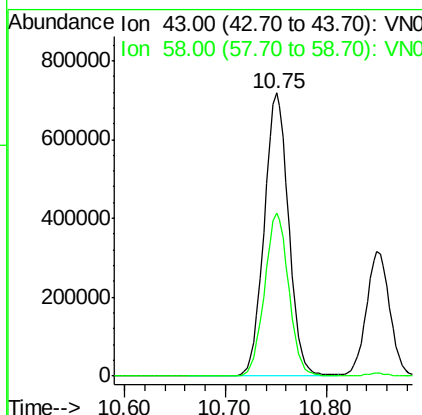
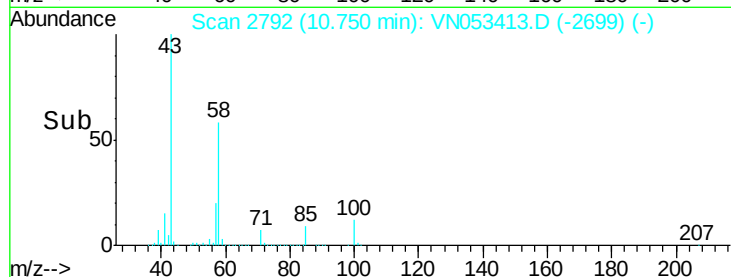
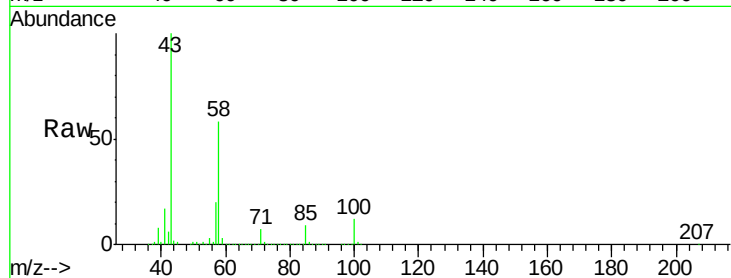
#59
2-Hexanone
Concen: 265.884 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN053413.D
Acq: 16 Jan 2019 9:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 1208397
Ion Ratio Lower Upper
43 100
58 57.1 28.6 85.8

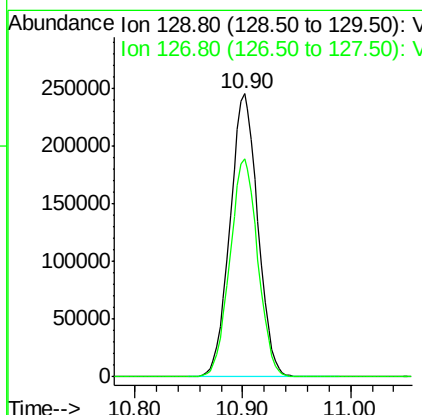
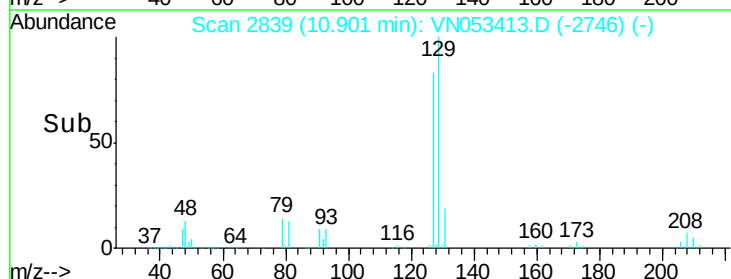
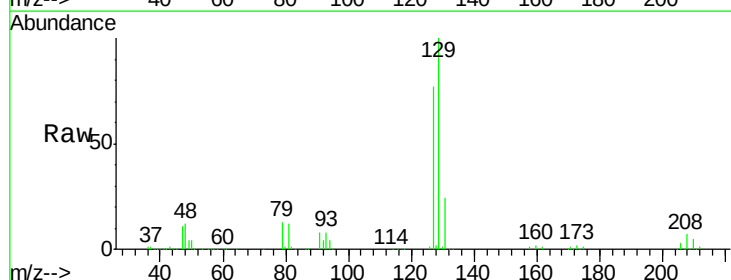
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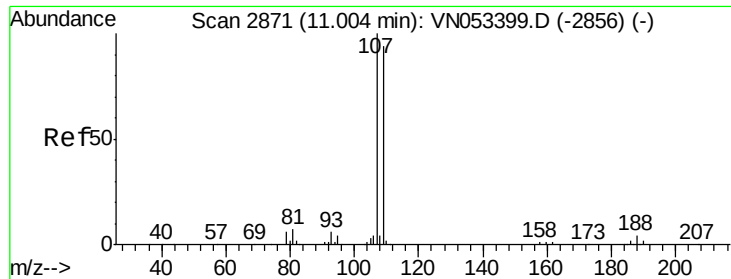
MMDadoda
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#60
Dibromochloromethane
Concen: 52.292 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN053413.D
Acq: 16 Jan 2019 9:12

Tgt Ion: 129 Resp: 442246
Ion Ratio Lower Upper
129 100
127 77.0 38.6 115.8





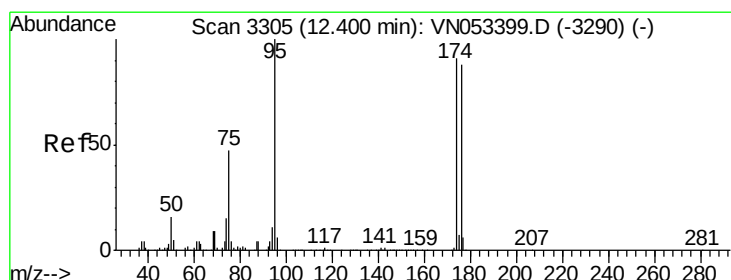
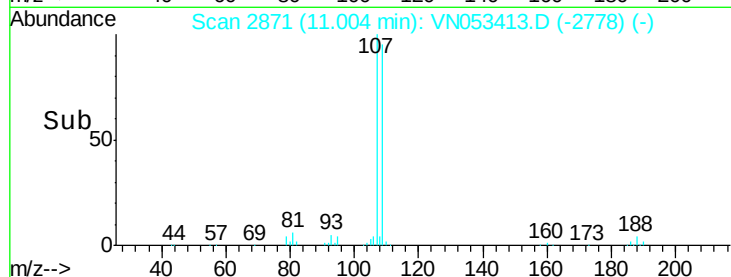
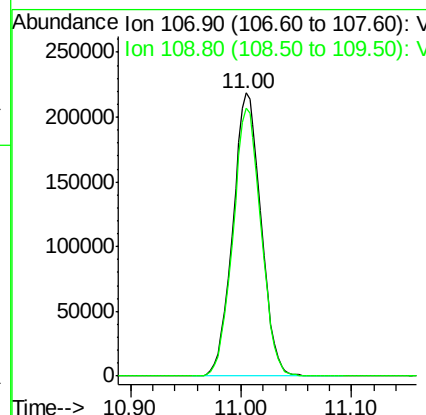
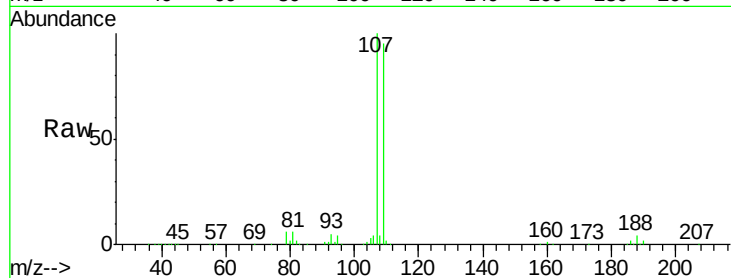
#61
 1,2-Dibromoethane
 Concen: 51.237 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN053413.D
 Acq: 16 Jan 2019 9:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.6	75.7	113.5

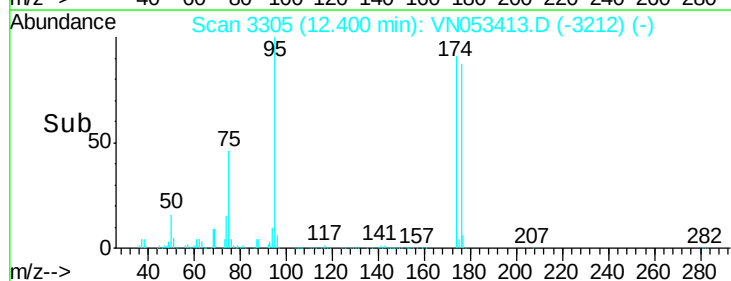
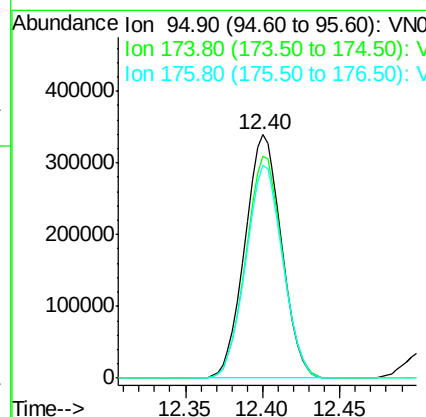
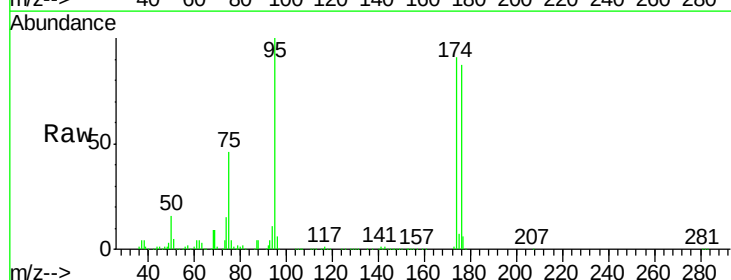
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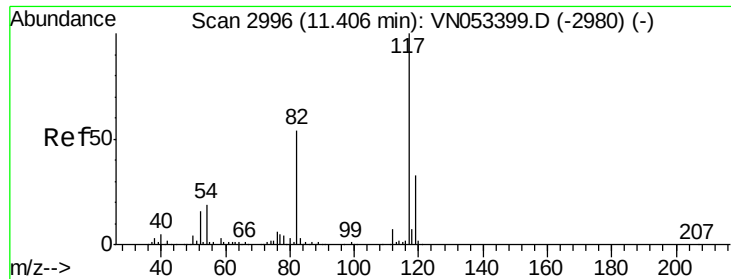
MMDadoda
 1/17/2019 9:41:13 AM



#62
 4-Bromofluorobenzene
 Concen: 51.237 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN053413.D
 Acq: 16 Jan 2019 9:12

Tgt Ion	Ratio	Lower	Upper
95	100		
174	91.5	0.0	183.2
176	88.2	0.0	177.4





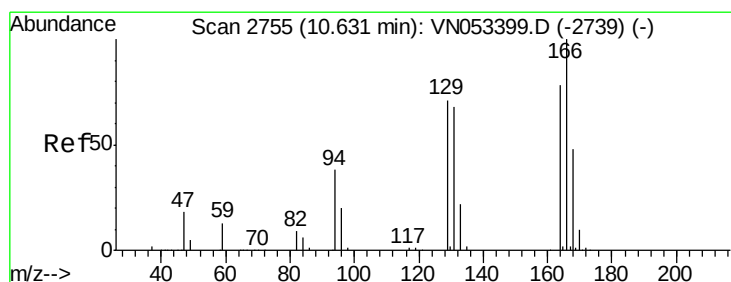
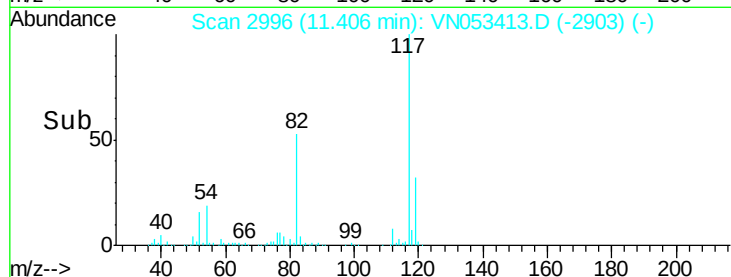
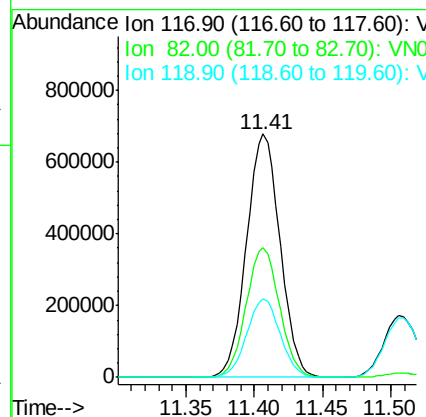
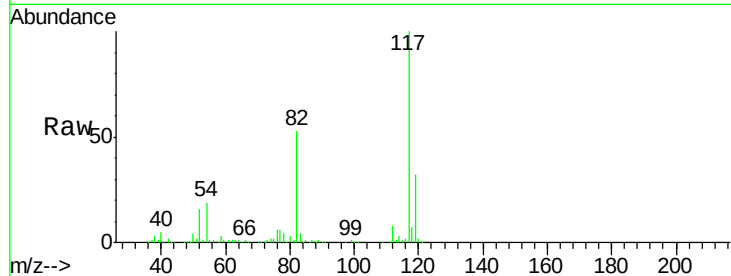
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN053413.D
Acq: 16 Jan 2019 9:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:117 Resp: 1157624
Ion Ratio Lower Upper
117 100
82 53.3 42.9 64.3
119 32.3 26.0 39.0

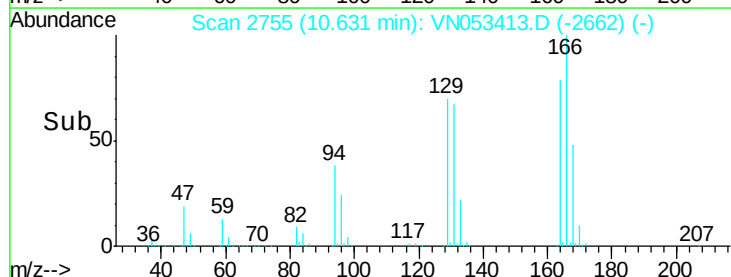
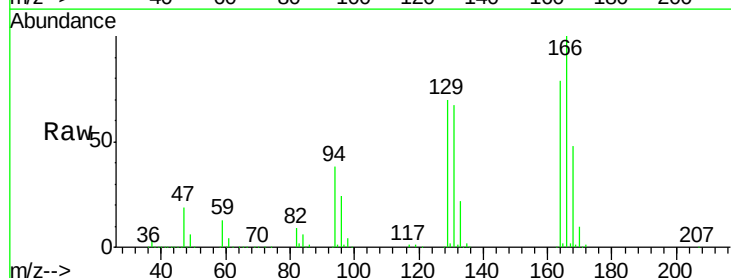
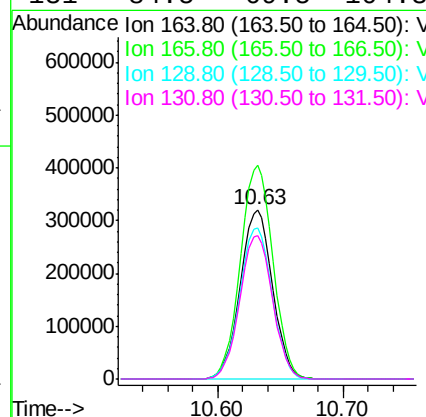
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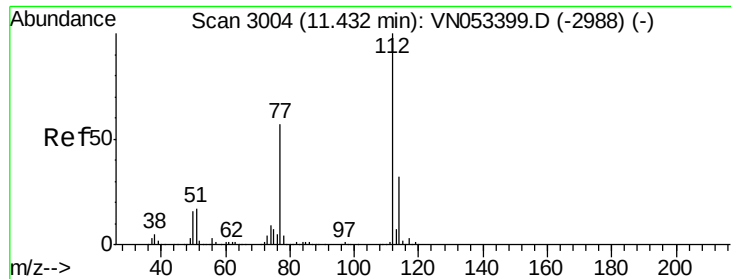
MMDadoda
1/17/2019 9:41:13 AM



#64
Tetrachloroethene
Concen: 52.541 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN053413.D
Acq: 16 Jan 2019 9:12

Tgt Ion:164 Resp: 573189
Ion Ratio Lower Upper
164 100
166 125.9 102.2 153.4
129 88.8 72.6 109.0
131 84.5 69.5 104.3





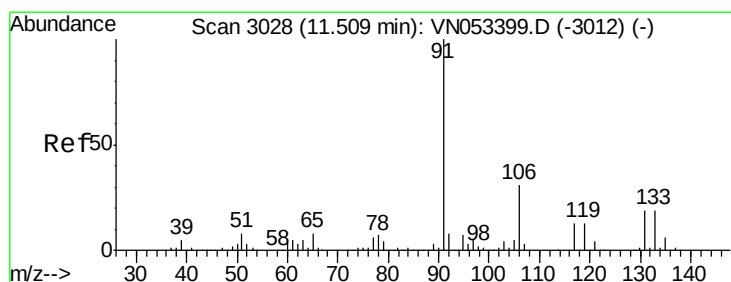
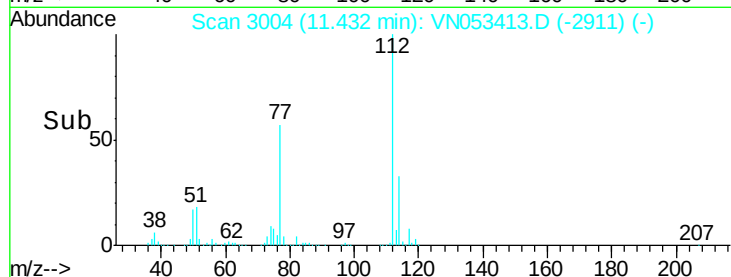
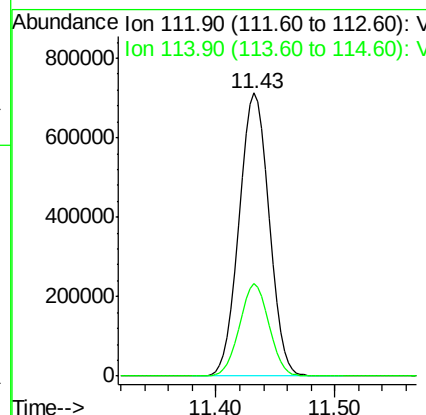
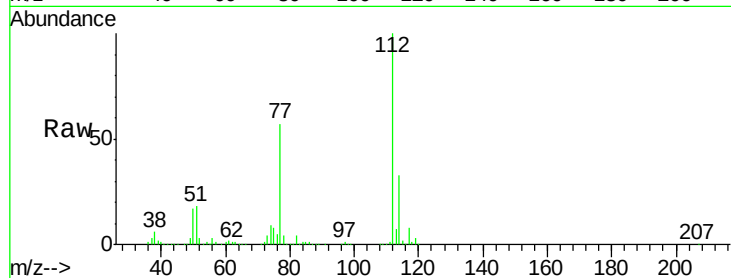
#65
Chlorobenzene
Concen: 50.878 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN053413.D
Acq: 16 Jan 2019 9:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 1246659
Ion Ratio Lower Upper
112 100
114 32.6 25.3 37.9

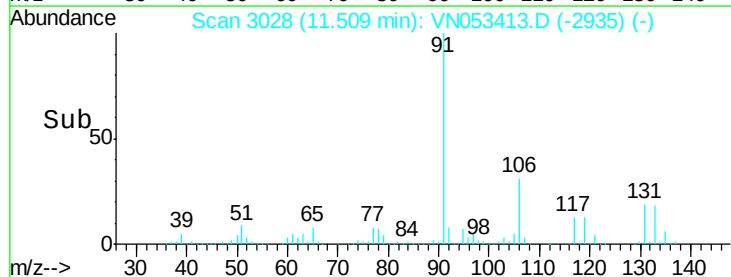
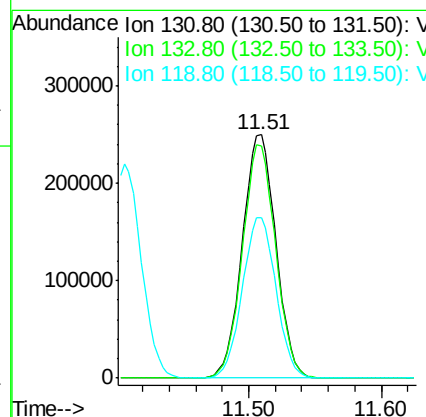
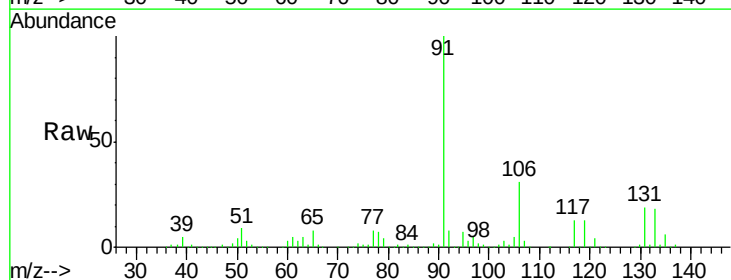
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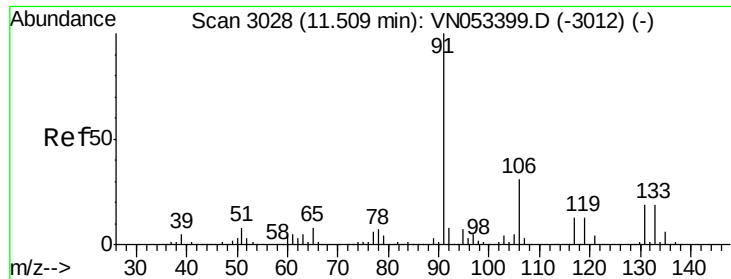
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#66
1,1,1,2-Tetrachloroethane
Concen: 51.458 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN053413.D
Acq: 16 Jan 2019 9:12

Tgt Ion:131 Resp: 438643
Ion Ratio Lower Upper
131 100
133 94.9 48.0 144.0
119 66.2 33.5 100.5





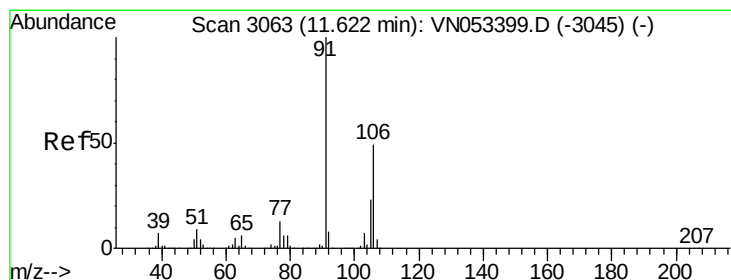
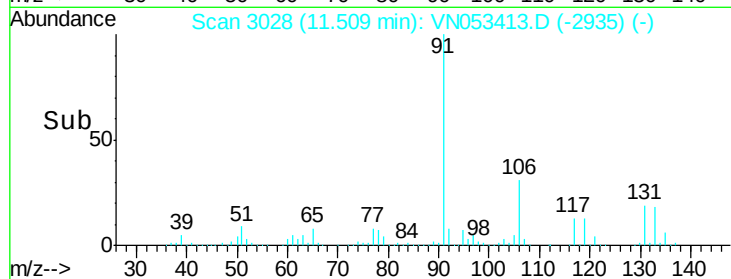
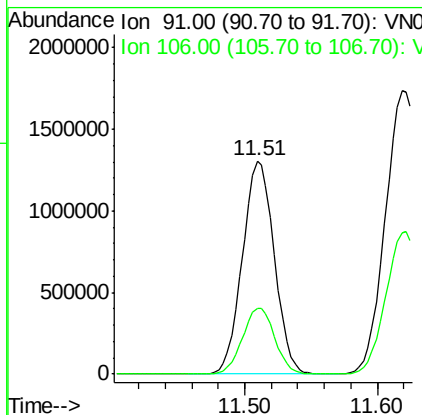
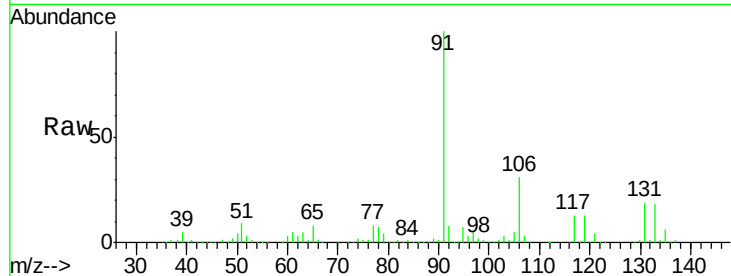
#67
Ethyl Benzene
Concen: 52.048 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN053413.D
Acq: 16 Jan 2019 9:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 2173484
Ion Ratio Lower Upper
91 100
106 31.1 25.0 37.6

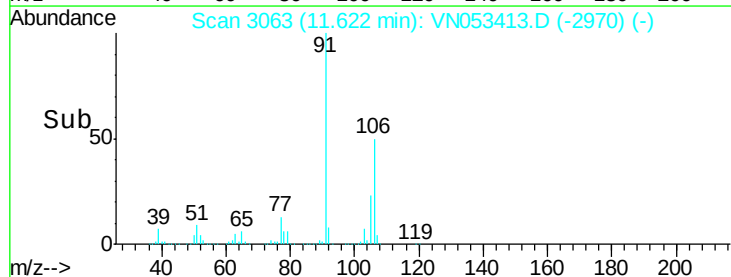
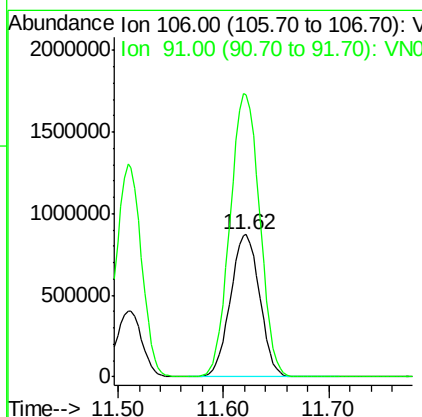
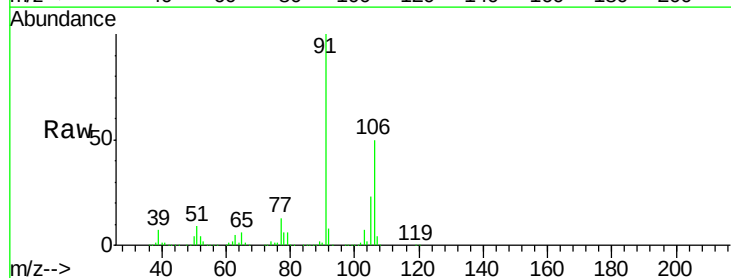
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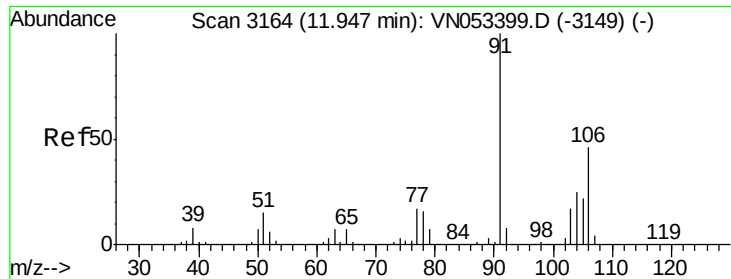
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#68
m/p-Xylenes
Concen: 106.232 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN053413.D
Acq: 16 Jan 2019 9:12

Tgt Ion: 106 Resp: 1674891
Ion Ratio Lower Upper
106 100
91 201.9 161.4 242.2





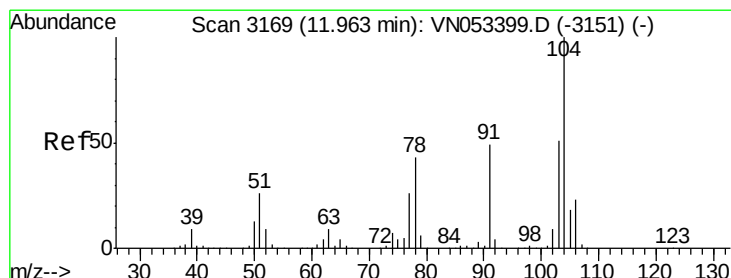
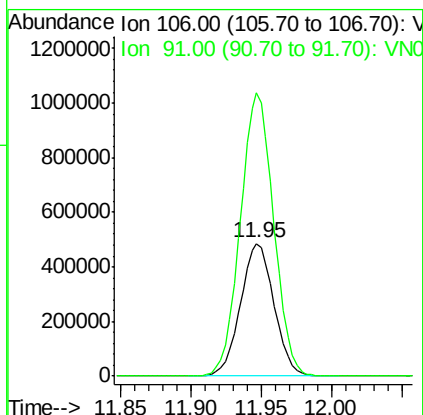
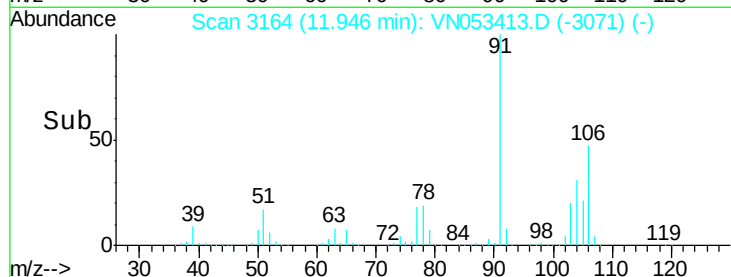
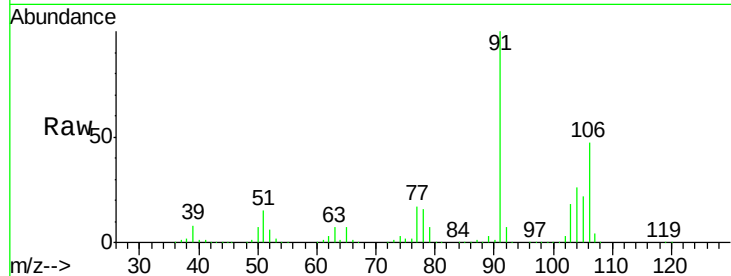
#69
o-Xylene
Concen: 52.520 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN053413.D
Acq: 16 Jan 2019 9:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 804614
Ion Ratio Lower Upper
106 100
91 212.8 106.9 320.8

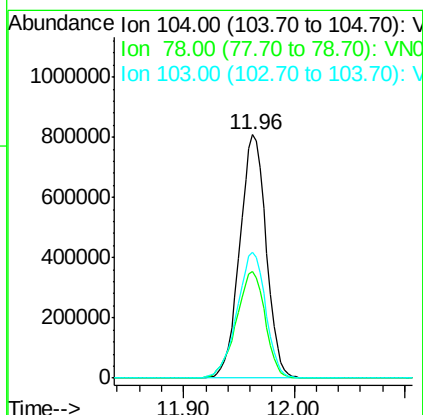
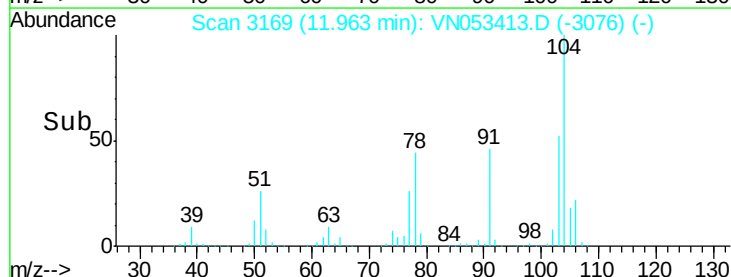
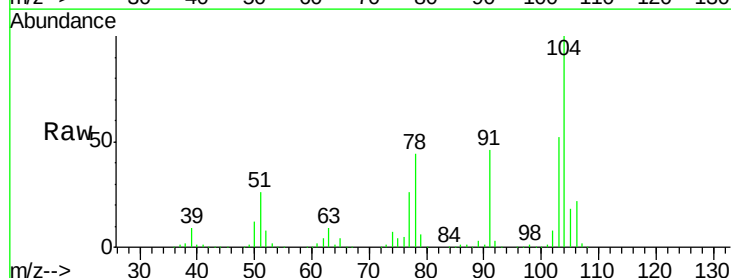
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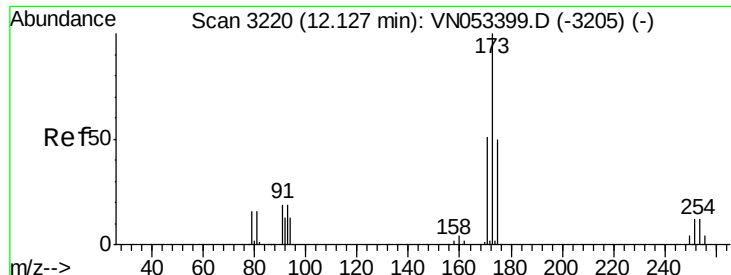
MMDadoda
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#70
Styrene
Concen: 53.842 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN053413.D
Acq: 16 Jan 2019 9:12

Tgt Ion:104 Resp: 1338729
Ion Ratio Lower Upper
104 100
78 48.0 38.2 57.2
103 56.1 44.4 66.6





#71

Bromoform

Concen: 51.903 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN053413.D

Acq: 16 Jan 2019 9:12

Instrument :

MSVOA_N

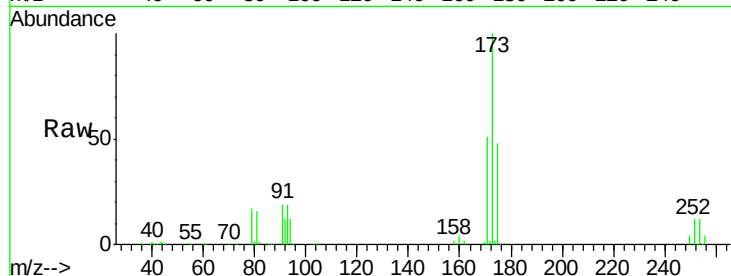
ClientSampled :

VSTDCCC050

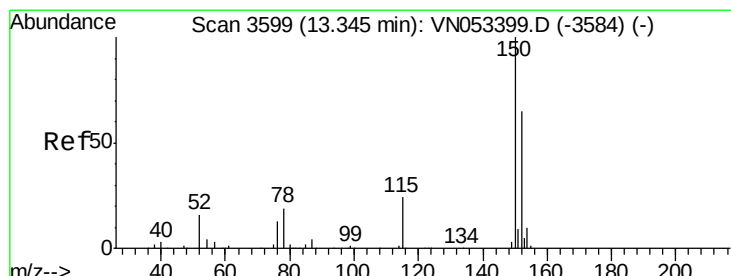
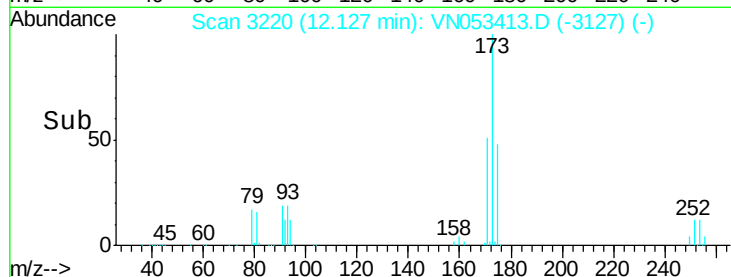
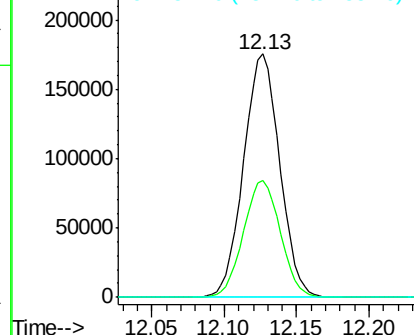
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.9	24.6	74.0
254	0.1	0.2	0.2

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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

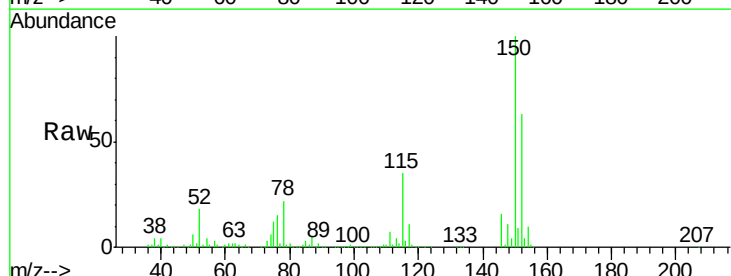
RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

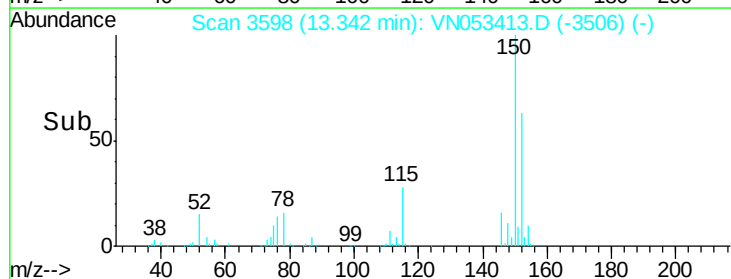
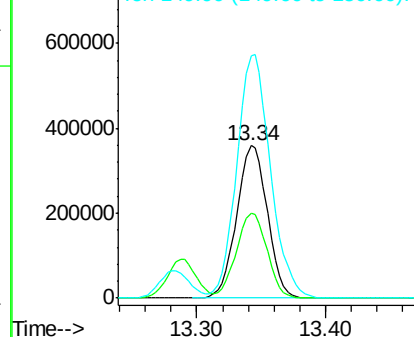
Lab File: VN053413.D

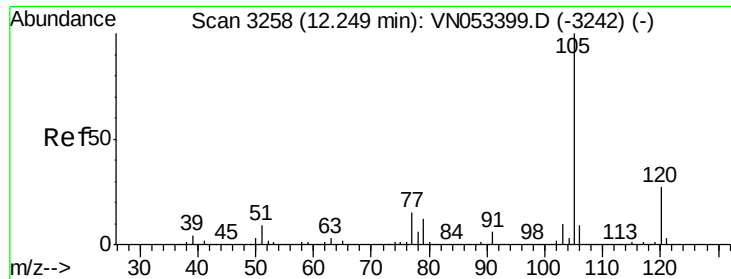
Acq: 16 Jan 2019 9:12

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.8	27.8	83.4
150	175.6	0.0	349.0



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





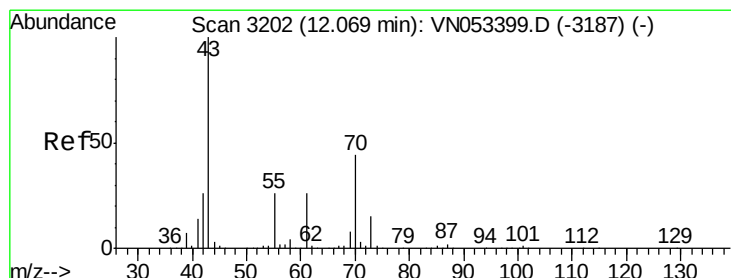
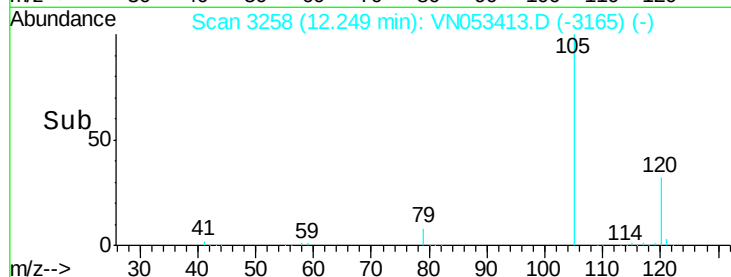
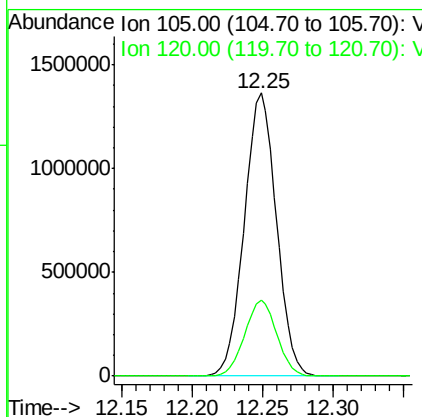
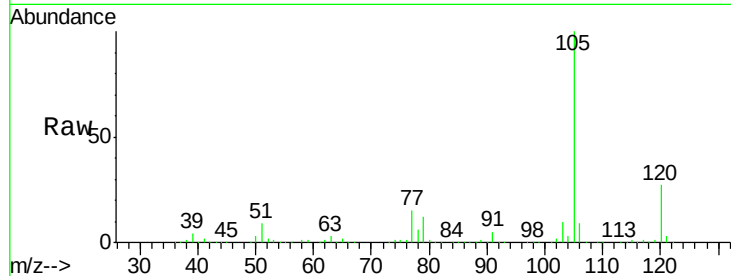
#73
Isopropylbenzene
Concen: 50.205 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. -0.00 min
Lab File: VN053413.D
Acq: 16 Jan 2019 9:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:105 Resp: 2176970
Ion Ratio Lower Upper
105 100
120 26.8 13.6 40.7

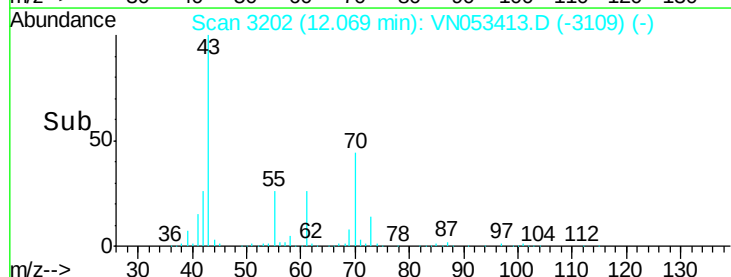
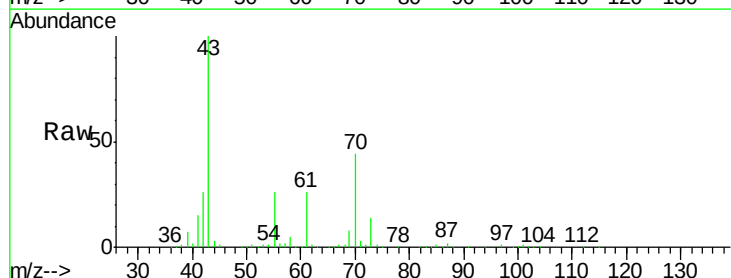
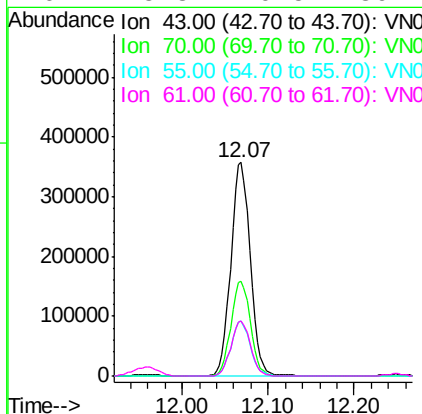
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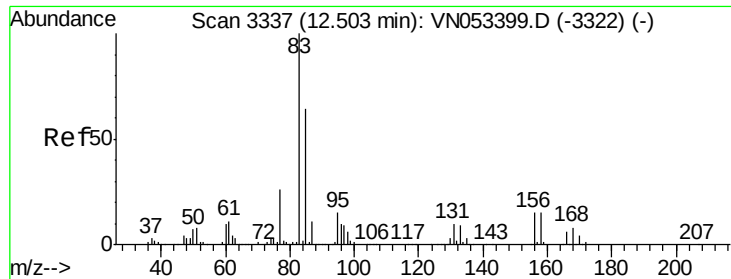
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#74
N-ethyl acetate
Concen: 48.398 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. -0.00 min
Lab File: VN053413.D
Acq: 16 Jan 2019 9:12

Tgt Ion: 43 Resp: 559446
Ion Ratio Lower Upper
43 100
70 44.5 35.4 53.2
55 25.7 20.9 31.3
61 25.8 20.5 30.7





#75

1,1,2,2-Tetrachloroethane

Concen: 45.630 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN053413.D

Acq: 16 Jan 2019 9:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 414963

Ion Ratio Lower Upper

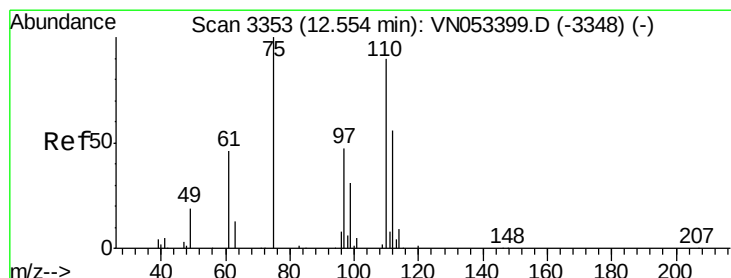
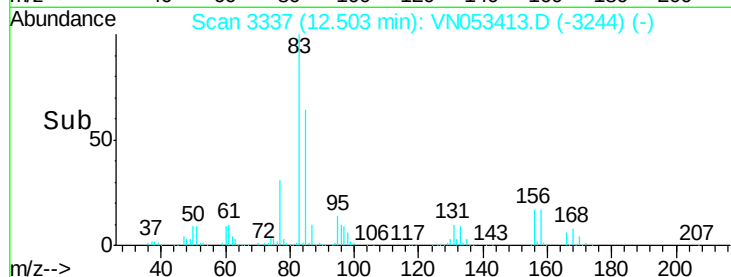
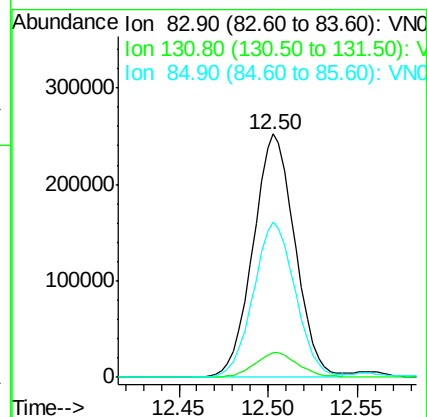
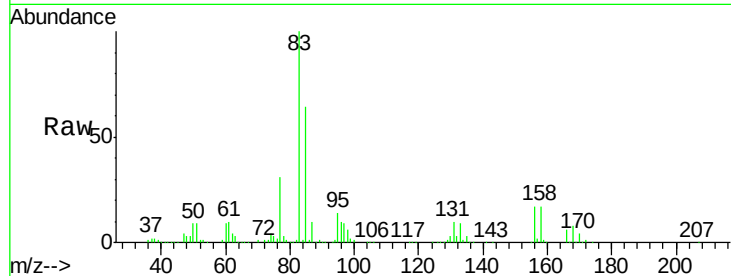
83 100

131 10.6 5.3 15.8

85 63.7 32.1 96.3

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#76

1,2,3-Trichloropropane

Concen: 48.174 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VN053413.D

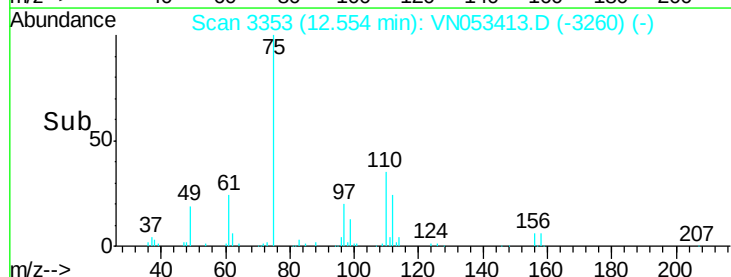
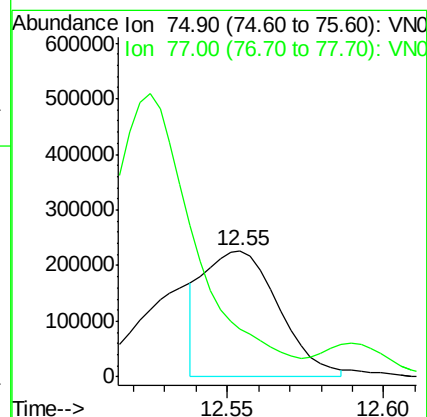
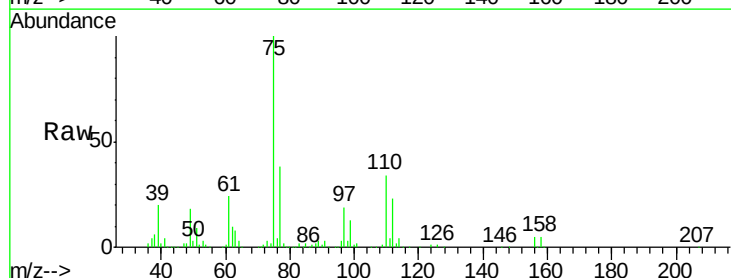
Acq: 16 Jan 2019 9:12

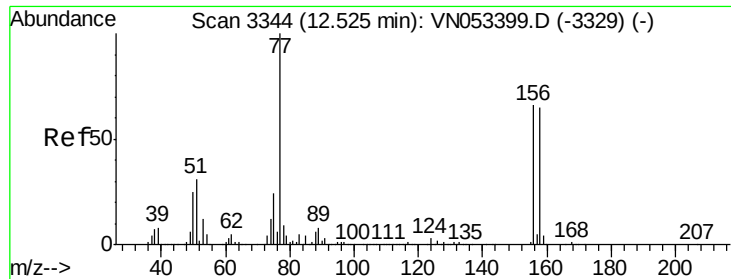
Tgt Ion: 75 Resp: 375908

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





#77

Bromobenzene

Concen: 48.968 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN053413.D

Acq: 16 Jan 2019 9:12

Instrument :

MSVOA_N

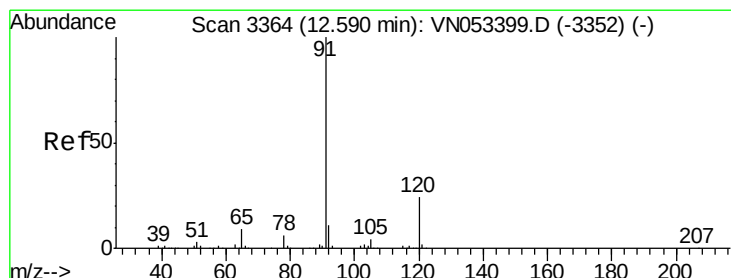
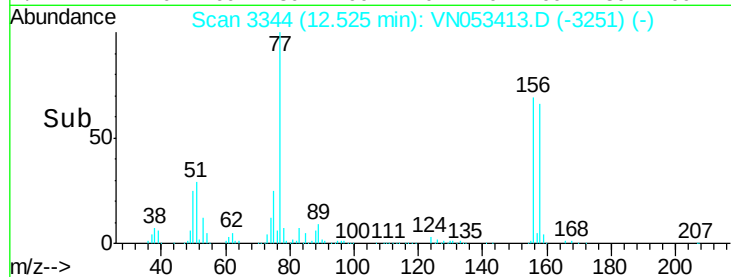
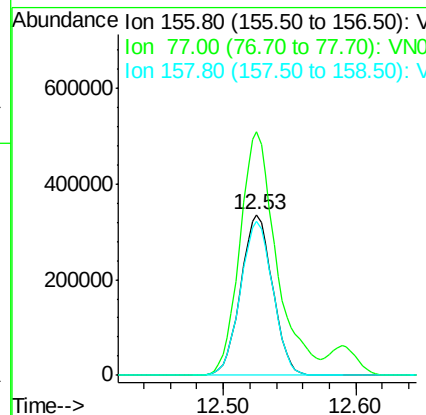
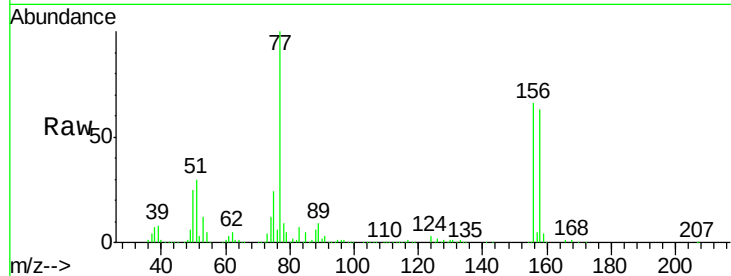
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Lower	Upper
156	100		
77	174.7	87.9	263.8
158	97.4	48.8	146.4

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#78

n-propylbenzene

Concen: 51.718 ug/l

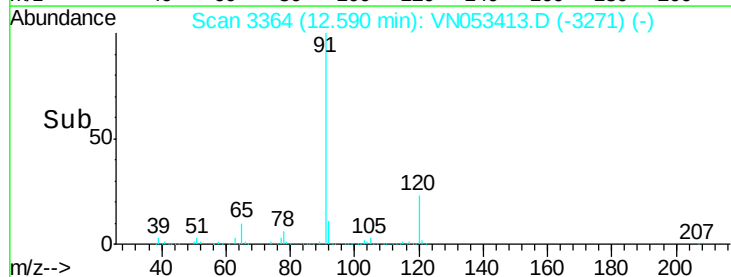
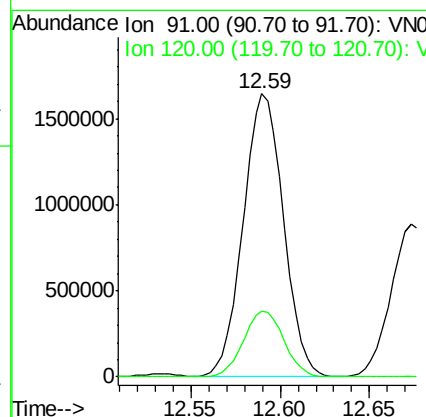
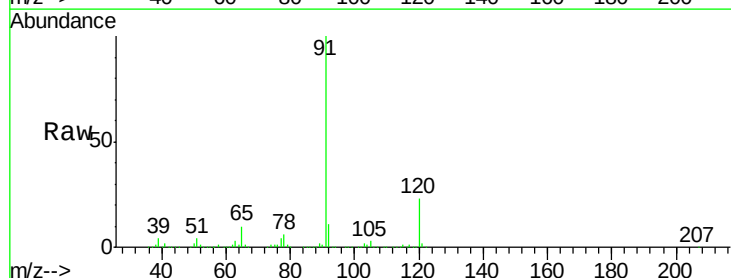
RT: 12.59 min Scan# 3364

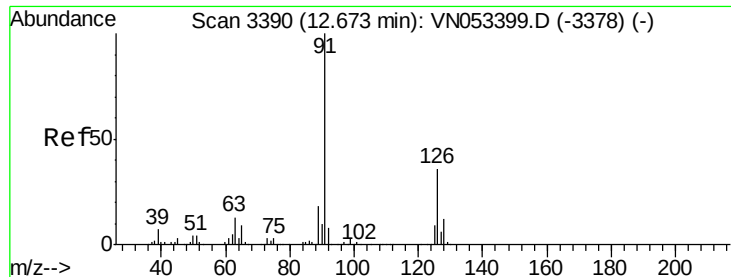
Delta R.T. -0.00 min

Lab File: VN053413.D

Acq: 16 Jan 2019 9:12

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.5	11.9	35.5





#79

2-Chlorotoluene

Concen: 49.404 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN053413.D

Acq: 16 Jan 2019 9:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1457575

Ion Ratio Lower Upper

91 100

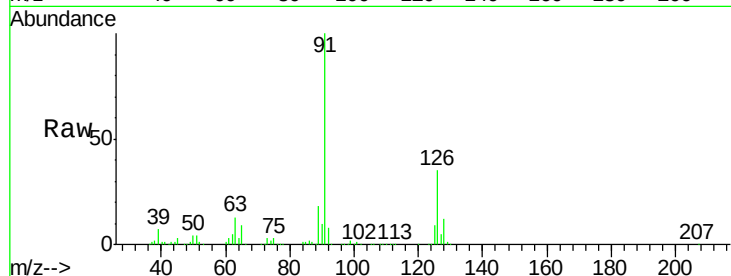
126 36.0 17.9 53.7

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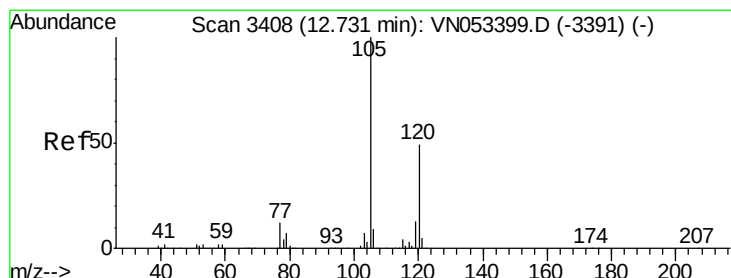
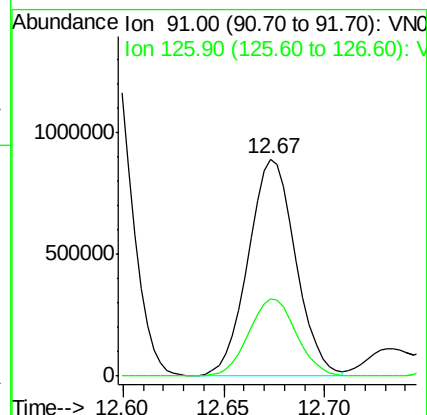
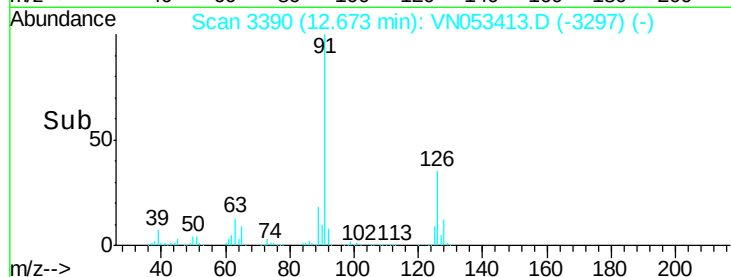
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Abundance Ion 91.00 (90.70 to 91.70): VN053399.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN053399.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: 51.516 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN053413.D

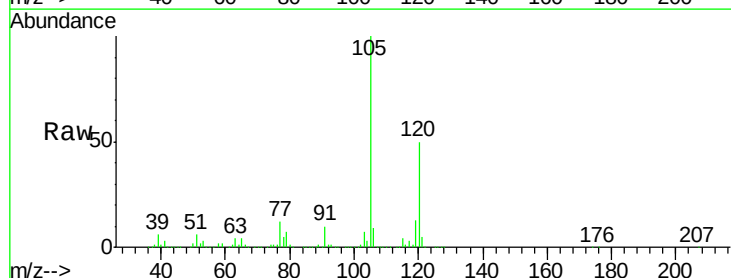
Acq: 16 Jan 2019 9:12

Tgt Ion: 105 Resp: 1817467

Ion Ratio Lower Upper

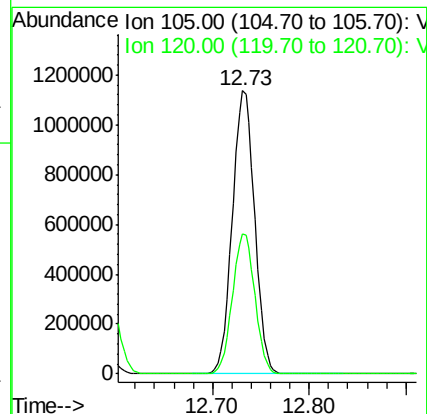
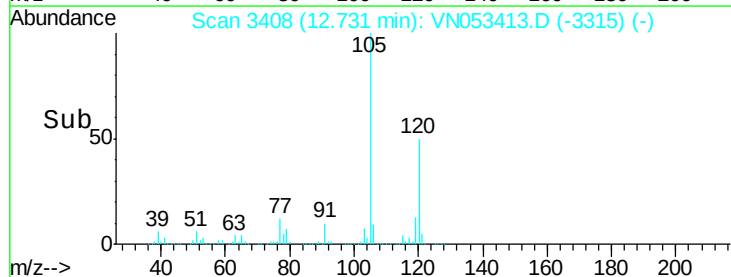
105 100

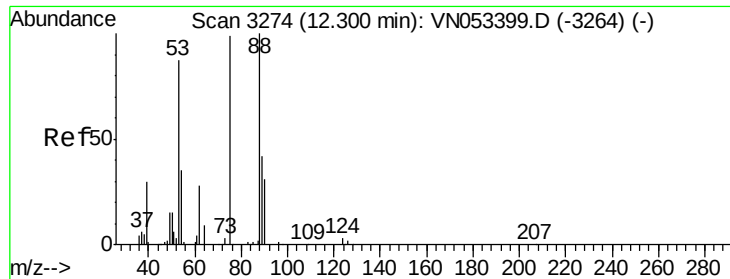
120 49.8 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): VN053399.D (-3391) (-)

Ion 120.00 (119.70 to 120.70): VN053399.D (-3391) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 45.432 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN053413.D

Acq: 16 Jan 2019 9:12

Instrument :

MSVOA_N

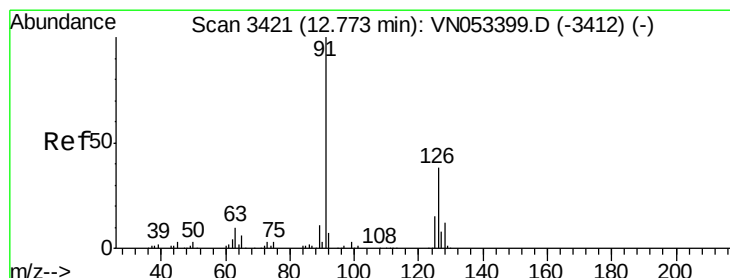
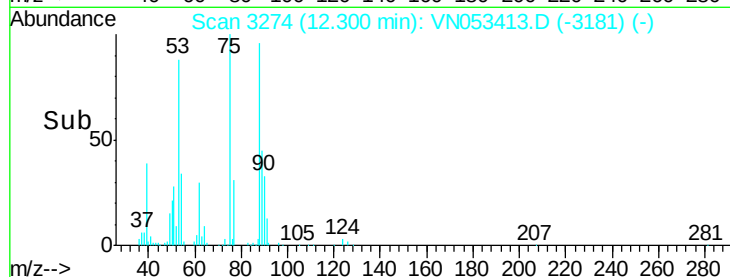
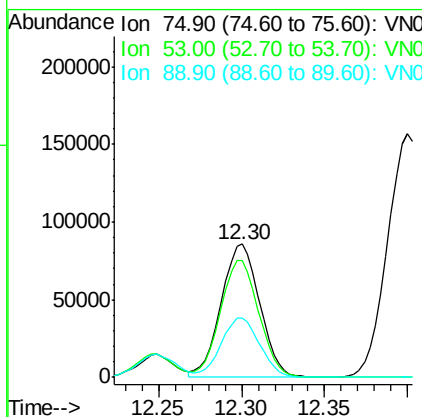
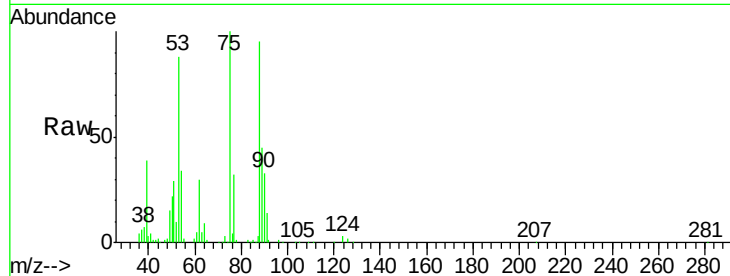
ClientSampleId :

VSTDCCC050

Tot Ion:	75	Resp:	139328
Ion	Ratio	Lower	Upper
75	100		
53	86.7	69.8	104.6
89	44.9	35.6	53.4

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#82

4-Chlorotoluene

Concen: 50.621 ug/l

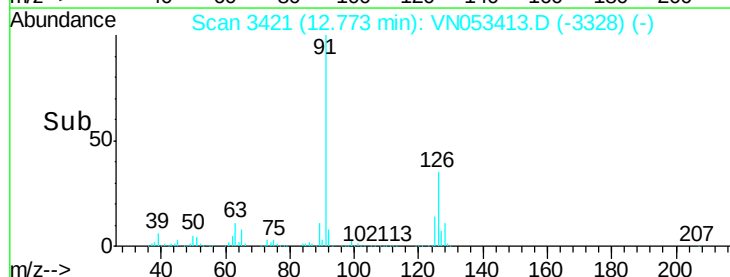
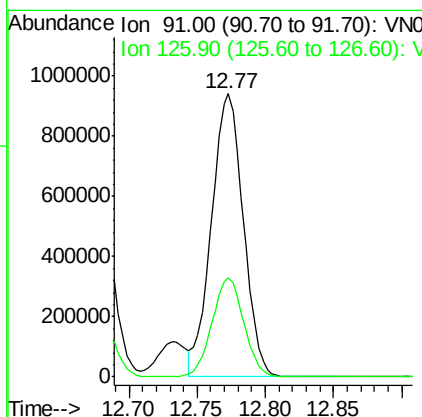
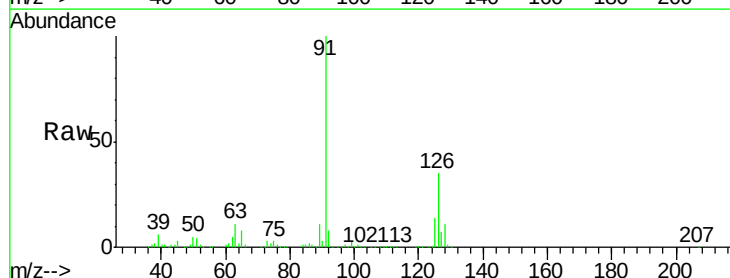
RT: 12.77 min Scan# 3421

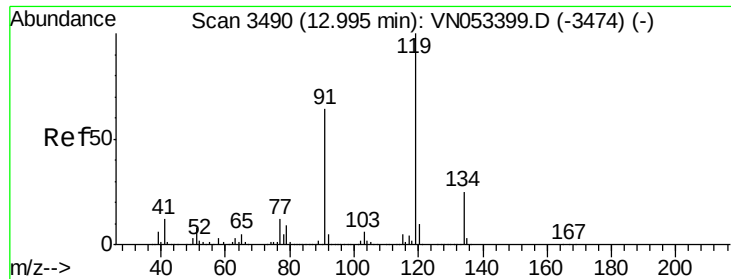
Delta R.T. -0.00 min

Lab File: VN053413.D

Acq: 16 Jan 2019 9:12

Tgt Ion:	91	Resp:	1523037
Ion	Ratio	Lower	Upper
91	100		
126	34.8	17.6	52.9





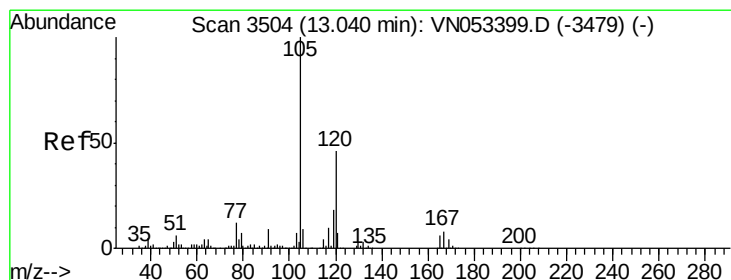
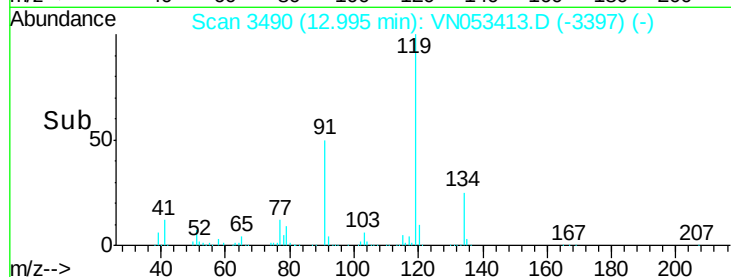
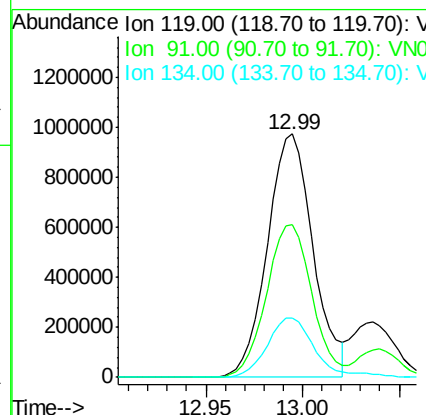
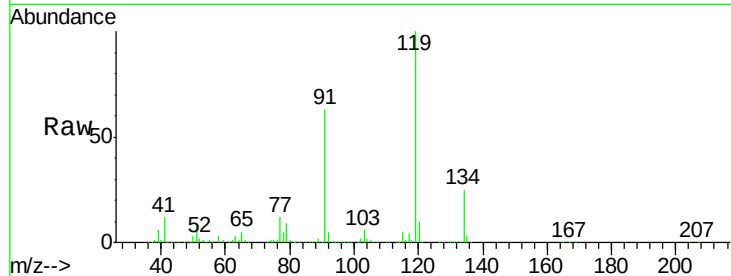
#83
 tert-Butylbenzene
 Concen: 51.299 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. -0.00 min
 Lab File: VN053413.D
 Acq: 16 Jan 2019 9:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	62.2	31.3	93.8
134	25.5	12.9	38.7

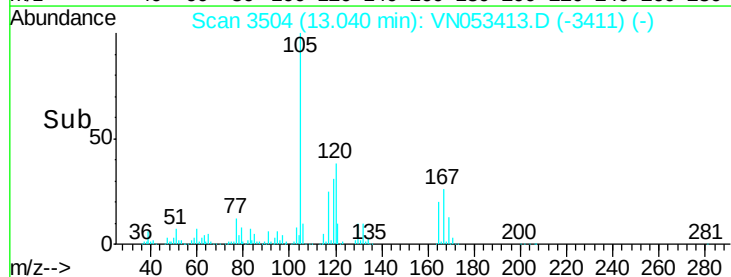
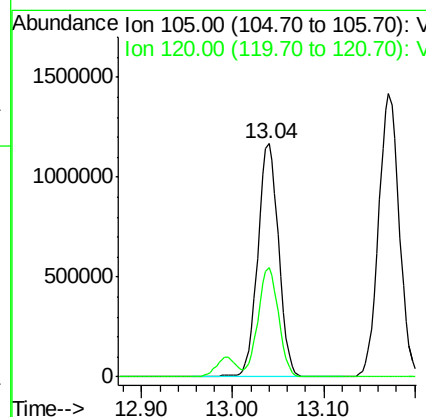
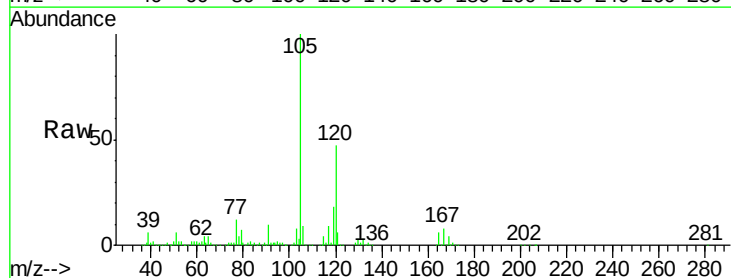
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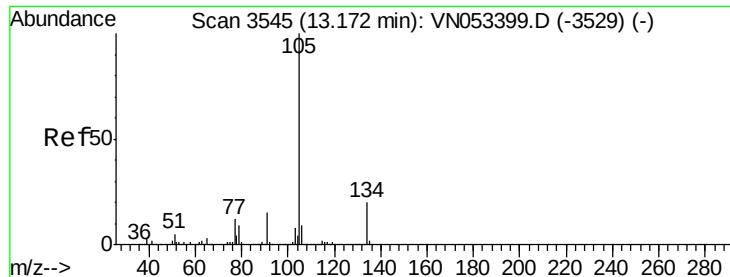
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#84
 1,2,4-Trimethylbenzene
 Concen: 52.142 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN053413.D
 Acq: 16 Jan 2019 9:12

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.1	23.0	69.0





#85

sec-Butylbenzene

Concen: 52.079 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN053413.D

Acq: 16 Jan 2019 9:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 2225580

Ion Ratio Lower Upper

105 100

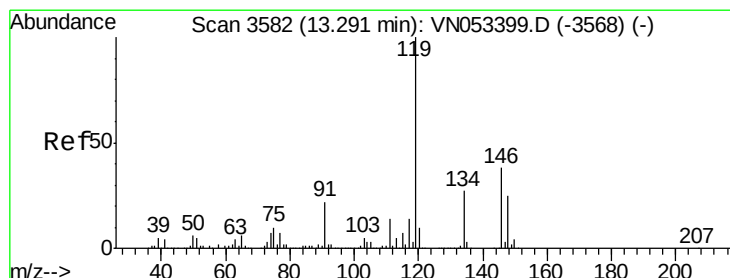
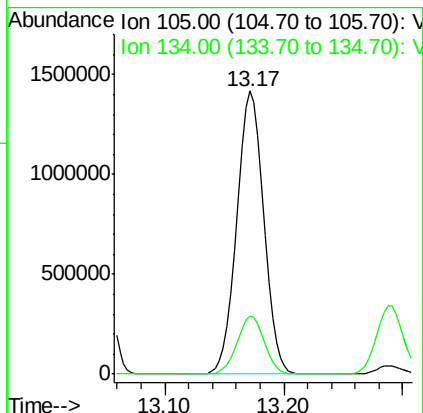
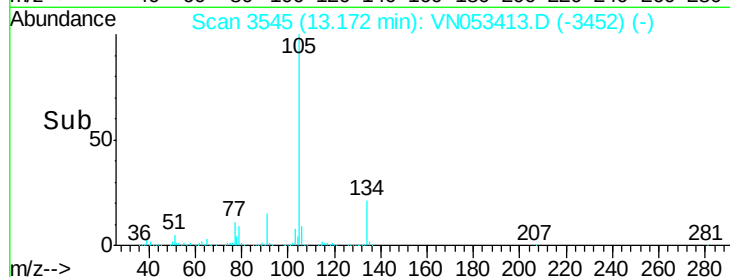
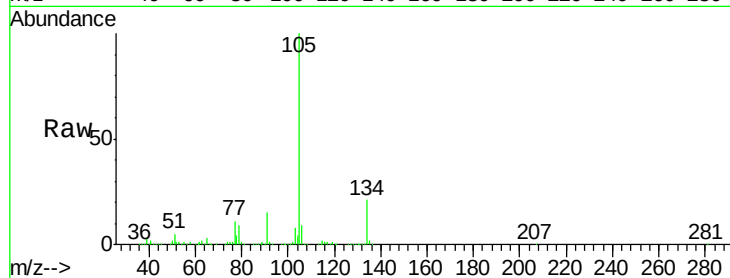
134 20.6 10.2 30.6

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 53.532 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN053413.D

Acq: 16 Jan 2019 9:12

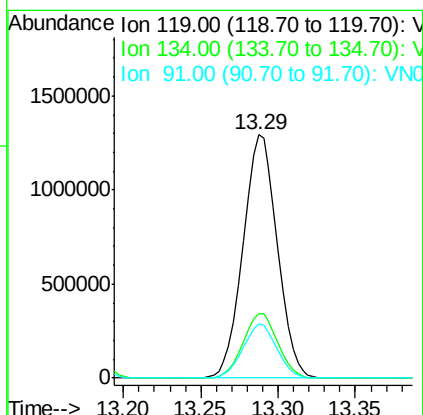
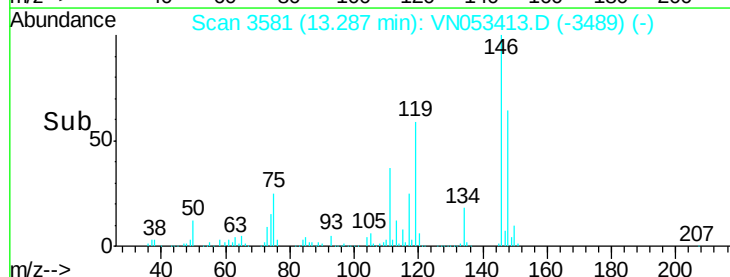
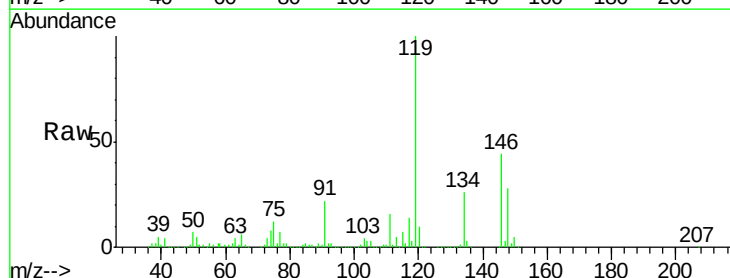
Tgt Ion:119 Resp: 1986344

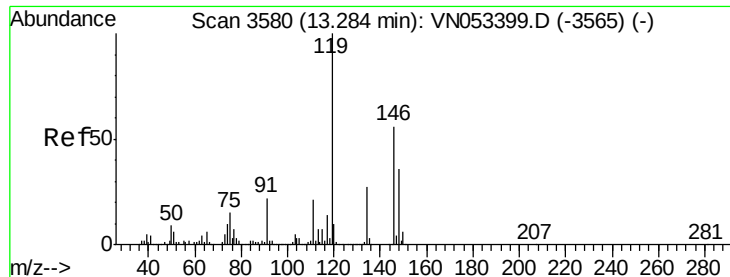
Ion Ratio Lower Upper

119 100

134 26.7 13.5 40.4

91 22.0 11.0 33.0





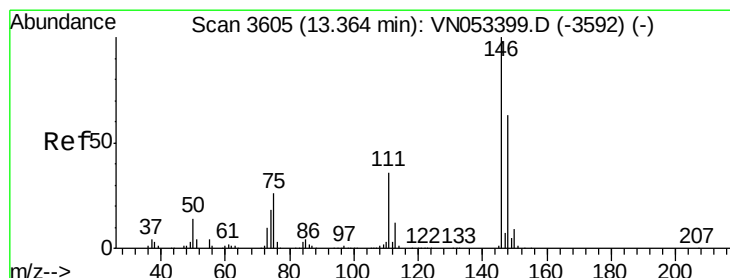
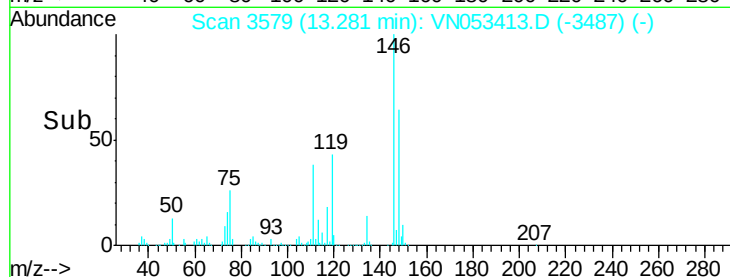
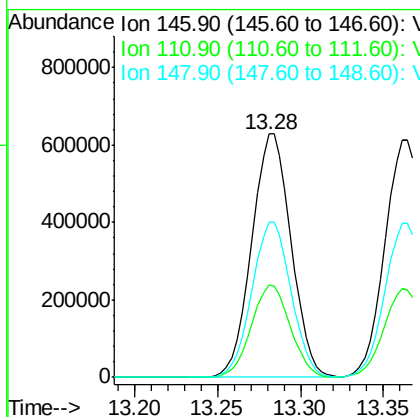
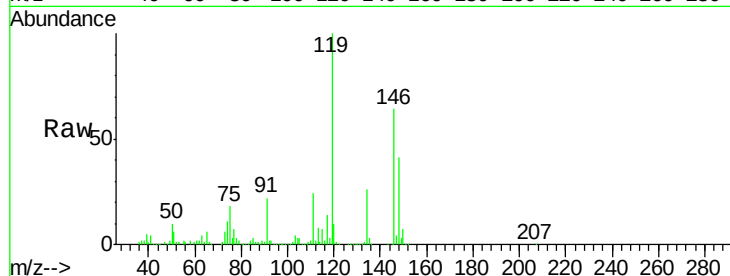
#87
 1,3-Dichlorobenzene
 Concen: 51.750 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN053413.D
 Acq: 16 Jan 2019 9:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.6	18.8	56.3
148	63.6	32.0	96.2

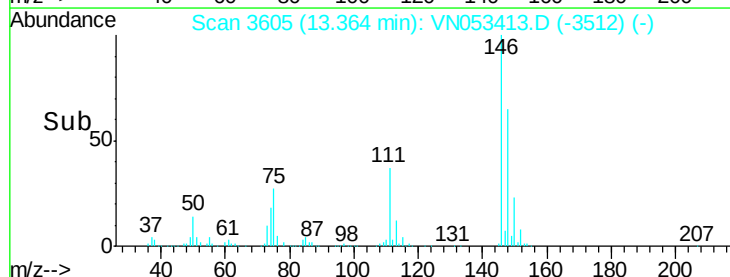
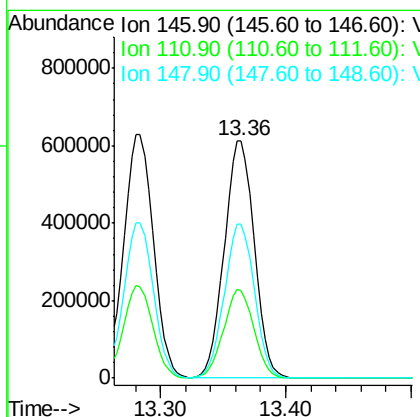
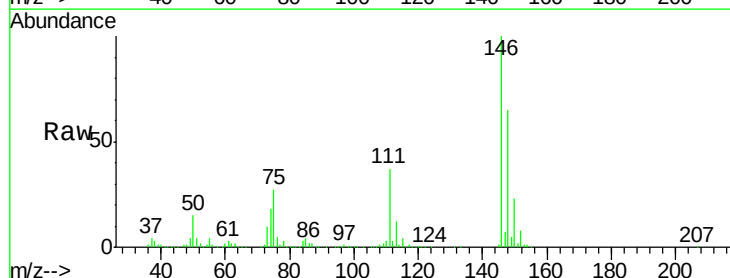
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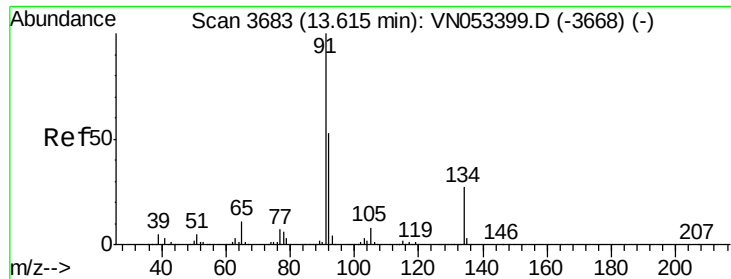
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#88
 1,4-Dichlorobenzene
 Concen: 50.414 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. -0.00 min
 Lab File: VN053413.D
 Acq: 16 Jan 2019 9:12

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.6	18.6	55.8
148	65.1	32.4	97.0





#89

n-Butylbenzene

Concen: 54.801 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. -0.00 min

Lab File: VN053413.D

Acq: 16 Jan 2019 9:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1733309

Ion Ratio Lower Upper

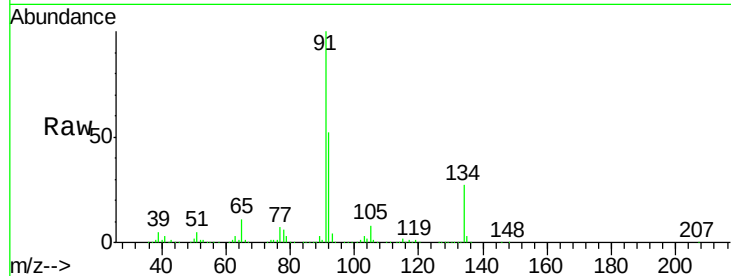
91 100

92 51.9 26.3 78.8

134 26.8 13.5 40.5

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Abundance Ion 91.00 (90.70 to 91.70): VN053413.D (-3590) (-)

Ion 92.00 (91.70 to 92.70): VN053413.D (-3590) (-)

Ion 134.00 (133.70 to 134.70): VN053413.D (-3590) (-)

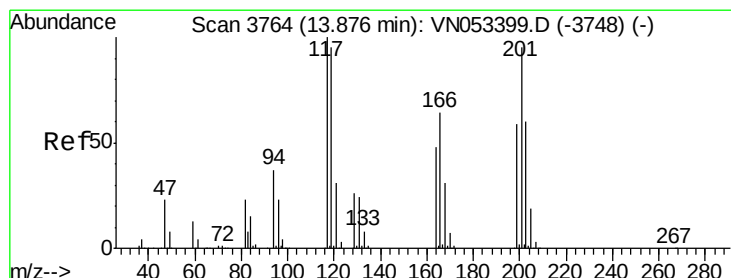
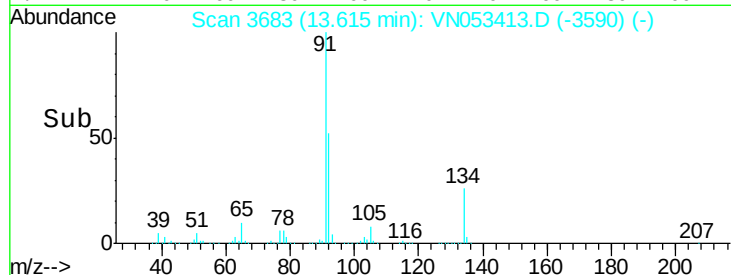
13.62

1000000

500000

0

Time--> 13.50 13.60 13.70



#90

Hexachloroethane

Concen: 53.485 ug/l

RT: 13.87 min Scan# 3763

Delta R.T. -0.00 min

Lab File: VN053413.D

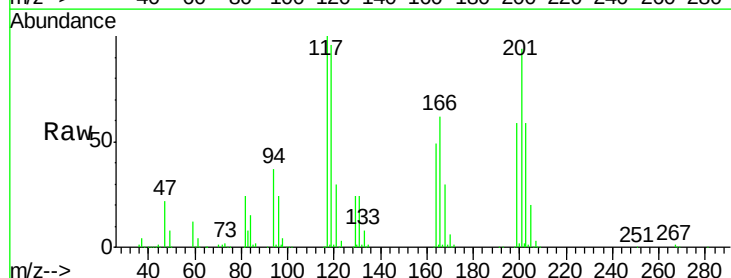
Acq: 16 Jan 2019 9:12

Tgt Ion: 117 Resp: 311257

Ion Ratio Lower Upper

117 100

201 93.3 46.8 140.4



Abundance Ion 116.80 (116.50 to 117.50): VN053413.D (-3671) (-)

Ion 200.70 (200.40 to 201.40): VN053413.D (-3671) (-)

13.87

200000

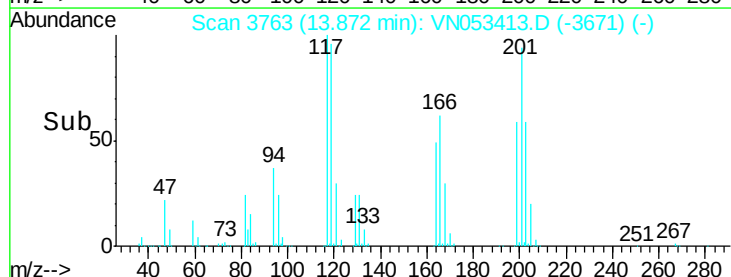
150000

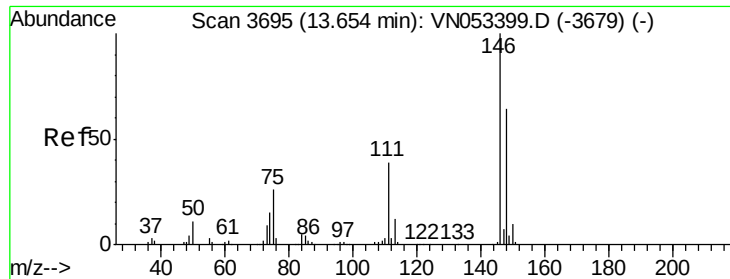
100000

50000

0

Time--> 13.80 13.85 13.90 13.95





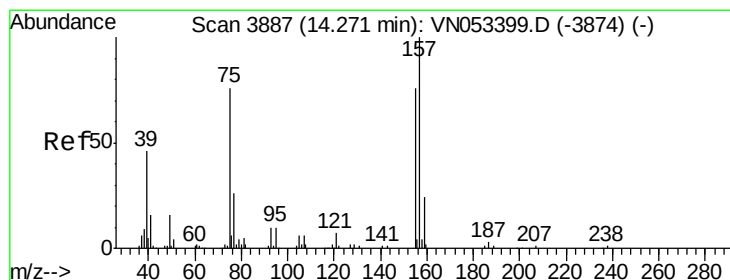
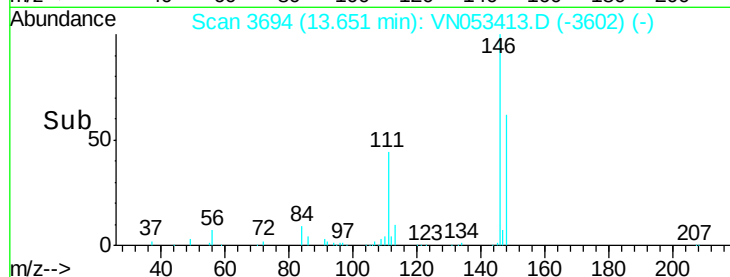
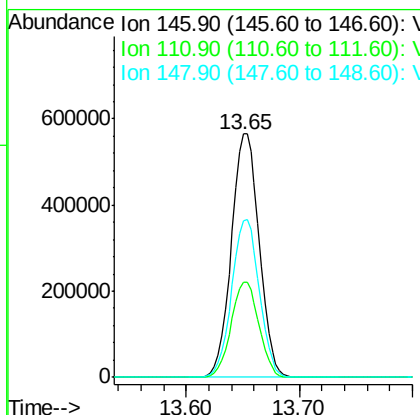
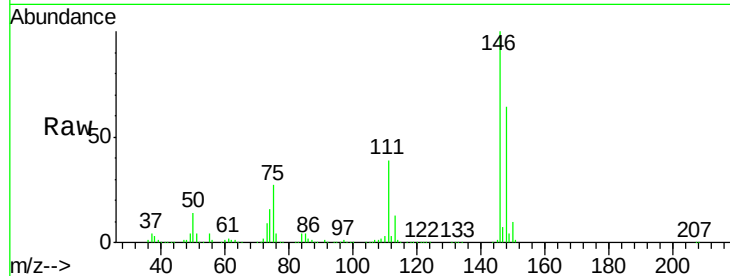
#91
 1,2-Dichlorobenzene
 Concen: 52.228 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN053413.D
 Acq: 16 Jan 2019 9:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.1	19.5	58.5
148	64.3	31.9	95.9

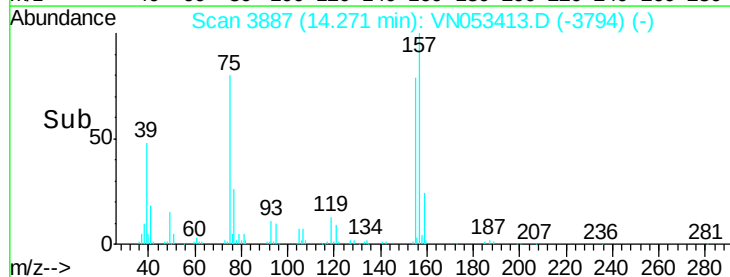
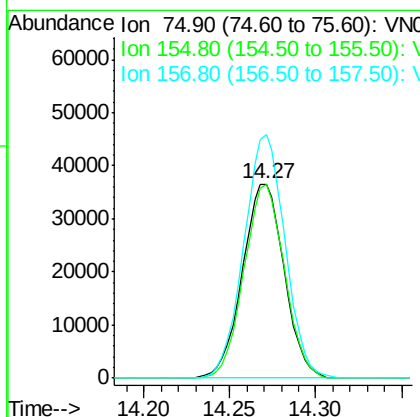
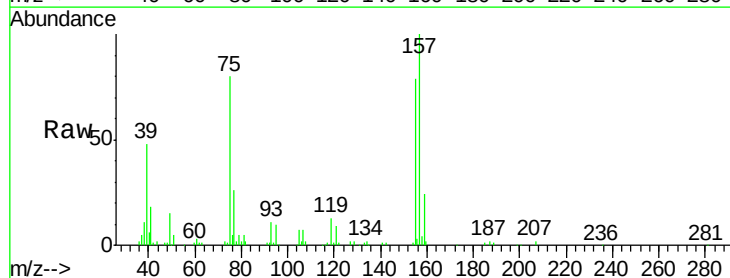
Manual Integrations
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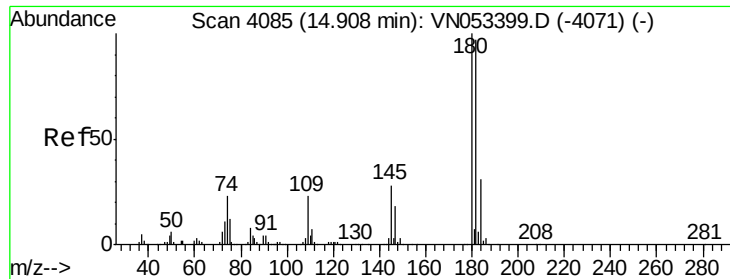
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 53.266 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. -0.00 min
 Lab File: VN053413.D
 Acq: 16 Jan 2019 9:12

Tgt Ion	Ratio	Lower	Upper
75	100		
155	96.6	48.9	146.7
157	123.8	63.7	191.3





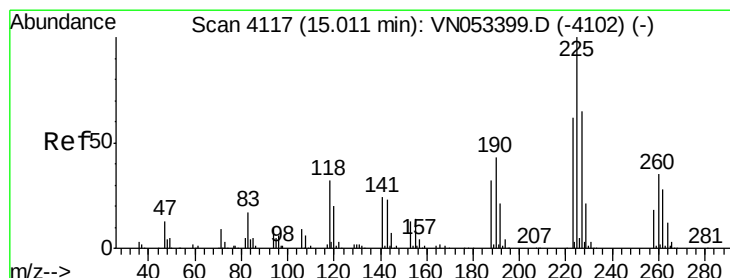
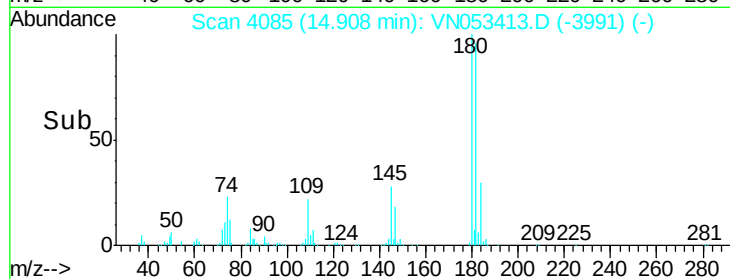
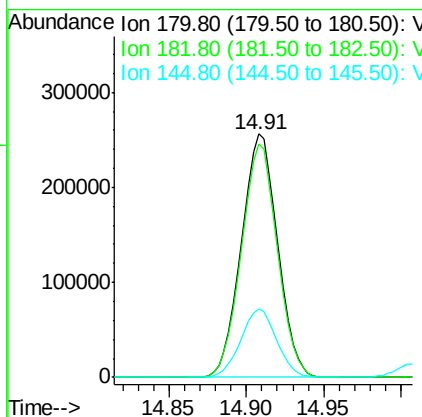
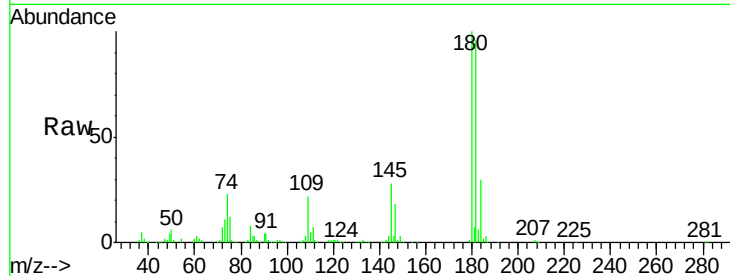
#93
 1,2,4-Trichlorobenzene
 Concen: 51.048 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN053413.D
 Acq: 16 Jan 2019 9:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	416983		
182	95.5	48.1	144.3	
145	27.9	13.9	41.6	

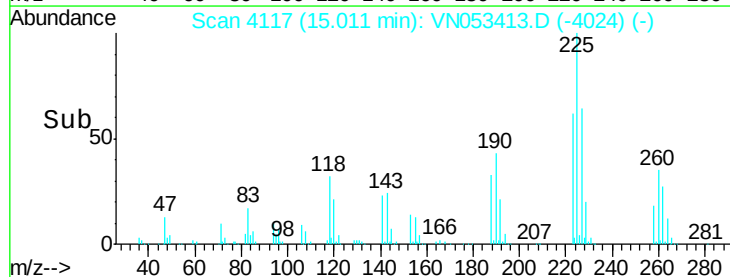
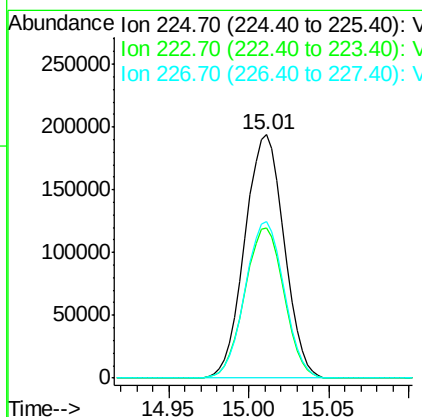
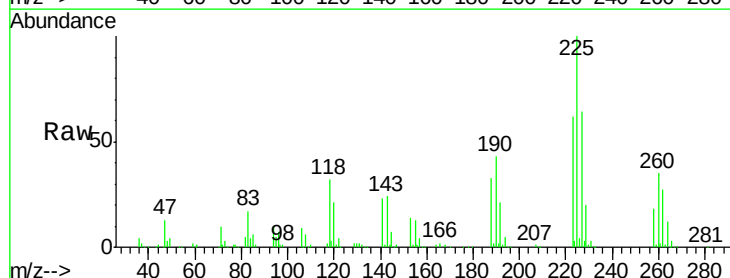
Manual Integrations
 APPROVED

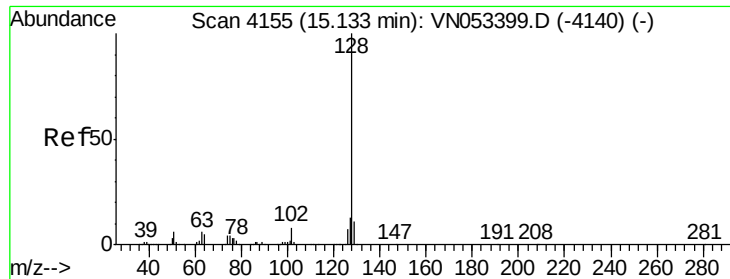
MMDadoda
 1/17/2019 9:41:13 AM



#94
 Hexachlorobutadiene
 Concen: 56.454 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN053413.D
 Acq: 16 Jan 2019 9:12

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	325634		
223	61.8	31.1	93.2	
227	63.9	32.0	96.2	





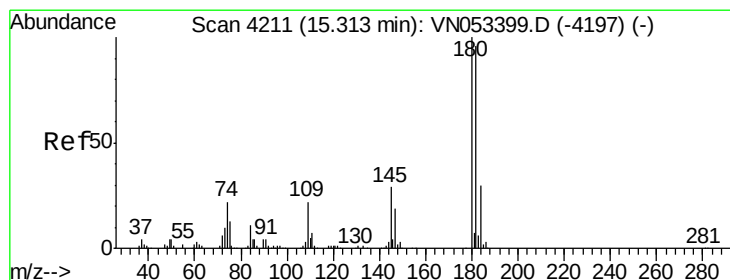
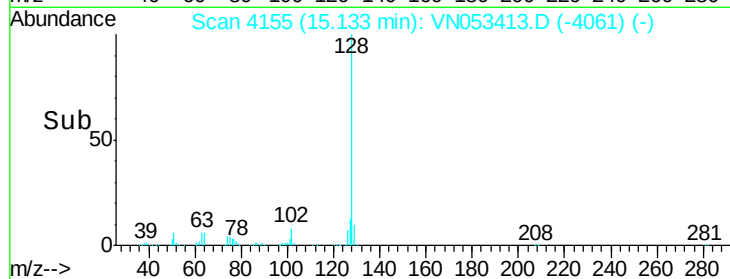
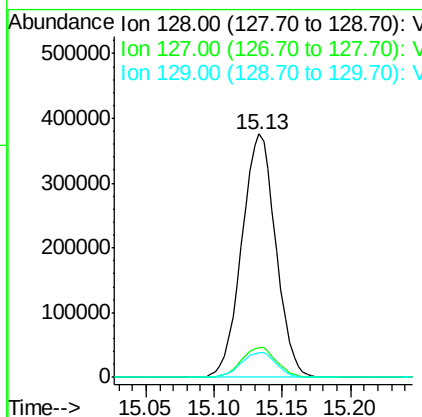
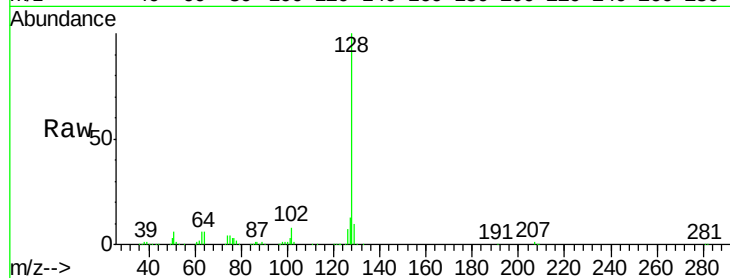
#95
Naphthalene
Concen: 45.722 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN053413.D
Acq: 16 Jan 2019 9:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.3	15.5
129	10.7	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
1/17/2019 9:41:13 AM



#96
1,2,3-Trichlorobenzene
Concen: 47.589 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN053413.D
Acq: 16 Jan 2019 9:12

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.0	47.9	143.8
145	29.0	14.7	44.1

