

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031620\
 Data File : VN060514.D
 Acq On : 16 Mar 2020 11:15
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 3/17/2020 11:48:10 AM

Quant Time: Mar 17 08:58:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	210397	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	342574	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	315022	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	152026	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	131442	48.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.38%	
35) Dibromofluoromethane	7.56	113	100417	63.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	126.30%	
50) Toluene-d8	10.08	98	387204	48.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.22%	
62) 4-Bromofluorobenzene	12.39	95	149991	49.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.34%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	76413	39.612	ug/l	100
3) Chloromethane	2.03	50	137413	40.915	ug/l	99
4) Vinyl Chloride	2.16	62	114582	39.782	ug/l	98
5) Bromomethane	2.54	94	49936	42.722	ug/l	99
6) Chloroethane	2.68	64	69497	44.533	ug/l	97
7) Trichlorofluoromethane	3.00	101	160907	43.725	ug/l	99
8) Diethyl Ether	3.38	74	66475	47.843	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.73	101	99136	47.601	ug/l	99
10) Methyl Iodide	3.92	142	73408	38.621	ug/l	99
11) Tert butyl alcohol	4.72	59	97022	242.053	ug/l	100
12) 1,1-Dichloroethene	3.71	96	95029	47.009	ug/l	99
13) Acrolein	3.57	56	89740	239.986	ug/l	100
14) Allyl chloride	4.29	41	171964	46.141	ug/l	96
15) Acrylonitrile	4.94	53	287398	272.026	ug/l	99
16) Acetone	3.78	43	262176	300.755	ug/l	99
17) Carbon Disulfide	4.03	76	225823	41.986	ug/l	100
18) Methyl Acetate	4.28	43	153017	52.599	ug/l	97
19) Methyl tert-butyl Ether	5.00	73	368020	50.147	ug/l	97
20) Methylene Chloride	4.52	84	111485	46.568	ug/l	98
21) trans-1,2-Dichloroethene	5.01	96	102566	47.204	ug/l	97
22) Diisopropyl ether	5.91	45	405403	53.701	ug/l	97
23) Vinyl Acetate	5.85	43	1593050	265.560	ug/l	99
24) 1,1-Dichloroethane	5.81	63	214615	50.222	ug/l	99
25) 2-Butanone	6.79	43	402922	286.157	ug/l	98
26) 2,2-Dichloropropane	6.79	77	193313	49.690	ug/l	100
27) cis-1,2-Dichloroethene	6.80	96	126928	45.723	ug/l	97
28) Bromochloromethane	7.17	49	91681	52.254	ug/l	93
29) Tetrahydrofuran	7.18	42	255472	260.919	ug/l	97
30) Chloroform	7.34	83	212548	49.964	ug/l	98
31) Cyclohexane	7.63	56	178040	48.790	ug/l	99
32) 1,1,1-Trichloroethane	7.54	97	180859	47.985	ug/l	100
36) 1,1-Dichloropropene	7.77	75	151762	46.483	ug/l	99
37) Ethyl Acetate	6.89	43	162677	52.621	ug/l	100
38) Carbon Tetrachloride	7.75	117	144350	45.411	ug/l	99

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.06	83	173190	44.990	ug/l	97
40) Benzene	8.02	78	466623	49.104	ug/l	100
41) Methacrylonitrile	7.14	41	72513m	50.799	ug/l	
42) 1,2-Dichloroethane	8.10	62	167533	48.856	ug/l	100
43) Isopropyl Acetate	8.14	43	286434	52.925	ug/l	99
44) Trichloroethene	8.81	130	121785	46.016	ug/l	99
45) 1,2-Dichloropropane	9.10	63	132943	53.509	ug/l	100
46) Dibromomethane	9.19	93	79292	49.185	ug/l	99
47) Bromodichloromethane	9.38	83	170235	51.920	ug/l	98
48) Methyl methacrylate	9.18	41	126382	51.208	ug/l	97
49) 1,4-Dioxane	9.18	88	33235	957.596	ug/l	98
51) 4-Methyl-2-Pentanone	9.97	43	831103	270.844	ug/l	100
52) Toluene	10.14	92	288164	48.275	ug/l	100
53) t-1,3-Dichloropropene	10.37	75	199356	49.621	ug/l	100
54) cis-1,3-Dichloropropene	9.82	75	211778	50.871	ug/l	98
55) 1,1,2-Trichloroethane	10.55	97	118230	49.253	ug/l	99
56) Ethyl methacrylate	10.42	69	182842	53.018	ug/l	96
57) 1,3-Dichloropropane	10.70	76	203347	51.944	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.68	63	449657	249.300	ug/l	98
59) 2-Hexanone	10.74	43	609800	270.659	ug/l	99
60) Dibromochloromethane	10.89	129	125469	51.396	ug/l	99
61) 1,2-Dibromoethane	10.99	107	116896	49.954	ug/l	99
64) Tetrachloroethene	10.62	164	118424	47.680	ug/l	99
65) Chlorobenzene	11.43	112	305586	48.040	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.50	131	116946	49.722	ug/l	99
67) Ethyl Benzene	11.50	91	566159	48.874	ug/l	100
68) m/p-Xylenes	11.61	106	418693	95.798	ug/l	100
69) o-Xylene	11.94	106	203115	48.735	ug/l	100
70) Styrene	11.96	104	340550	49.699	ug/l	100
71) Bromoform	12.12	173	89587	52.851	ug/l #	100
73) Isopropylbenzene	12.24	105	555015	49.256	ug/l	100
74) N-amyl acetate	12.06	43	254105	51.607	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	165447	54.016	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	150173m	45.023	ug/l	
77) Bromobenzene	12.52	156	130784	47.350	ug/l	93
78) n-propylbenzene	12.59	91	655339	49.616	ug/l	99
79) 2-Chlorotoluene	12.67	91	384025	49.462	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	464621	48.974	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.29	75	64573	53.441	ug/l #	84
82) 4-Chlorotoluene	12.77	91	395634	48.366	ug/l	99
83) tert-Butylbenzene	12.99	119	393499	47.906	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	465335	48.595	ug/l	100
85) sec-Butylbenzene	13.17	105	533366	48.490	ug/l	99
86) p-Isopropyltoluene	13.28	119	476894	46.843	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	238870	50.331	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	240115	50.886	ug/l	99
89) n-Butylbenzene	13.61	91	446482	47.775	ug/l	99
90) Hexachloroethane	13.87	117	70077	47.555	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	229328	47.383	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.26	75	32665	47.094	ug/l	98

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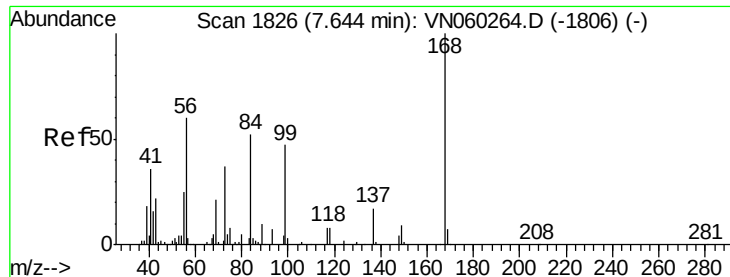
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.90	180	146464	47.630	ug/l	99
94) Hexachlorobutadiene	15.01	225	72306	51.161	ug/l	98
95) Naphthalene	15.13	128	422735	46.650	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	139502	48.160	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 210397

Ion Ratio Lower Upper

168 100

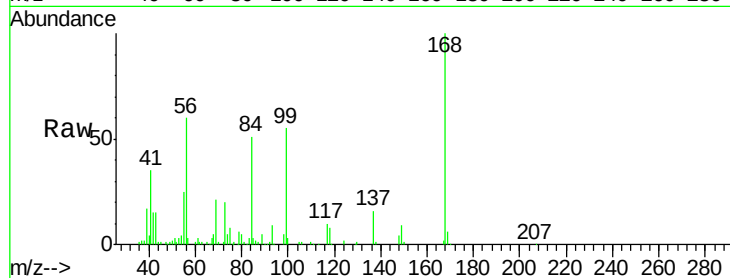
99 55.3 44.7 67.1

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.64

80000

60000

40000

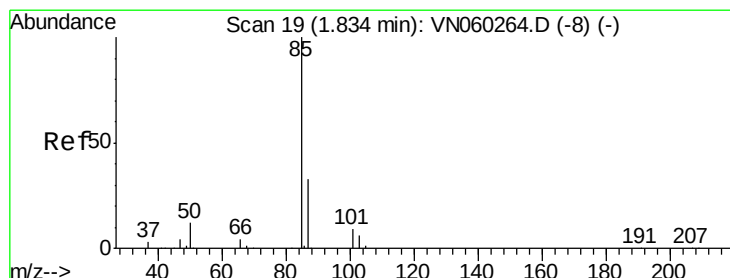
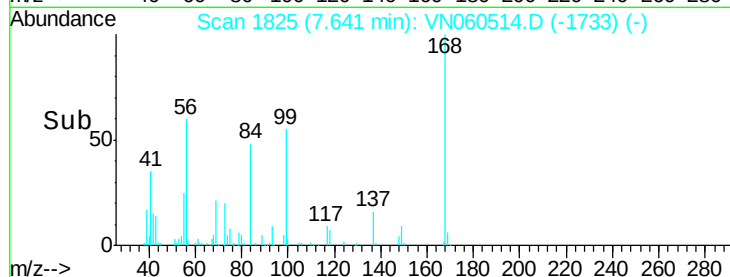
20000

0

7.60

7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 39.612 ug/l

RT: 1.83 min Scan# 18

Delta R.T. -0.00 min

Lab File: VN060514.D

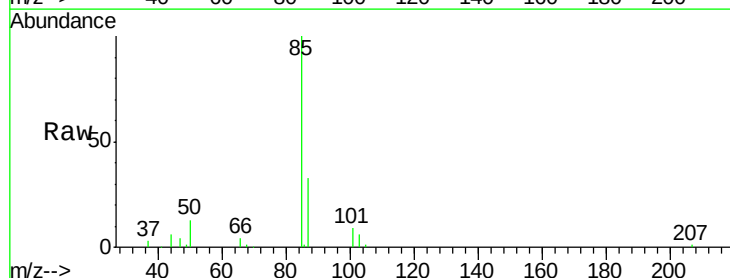
Acq: 16 Mar 2020 11:15

Tgt Ion: 85 Resp: 76413

Ion Ratio Lower Upper

85 100

87 32.5 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

60000

50000

40000

30000

20000

10000

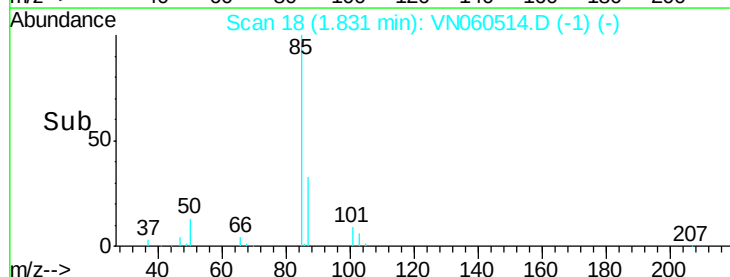
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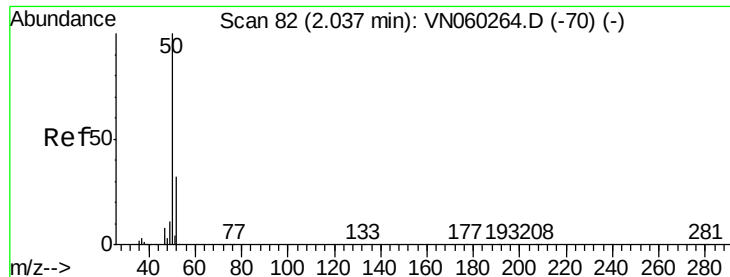
1.80

1.85

1.90

Time-->





#3

Chloromethane

Concen: 40.915 ug/l

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 137413

Ion Ratio Lower Upper

50 100

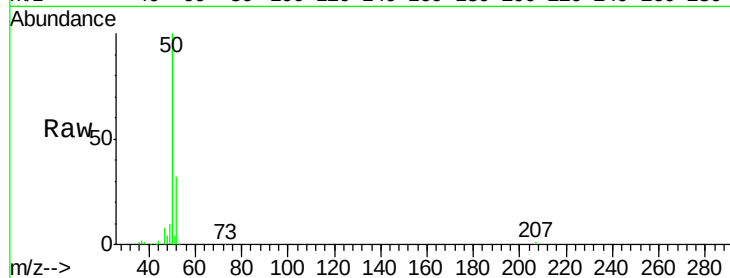
52 32.5 25.6 38.4

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Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.03

120000

100000

80000

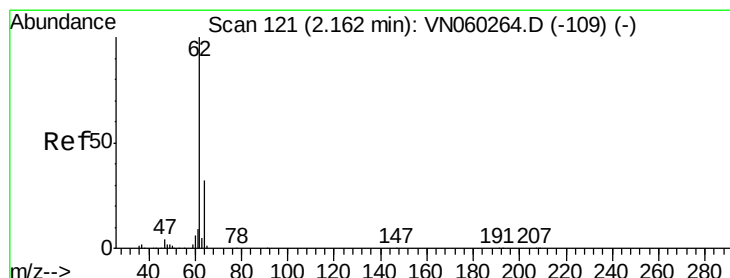
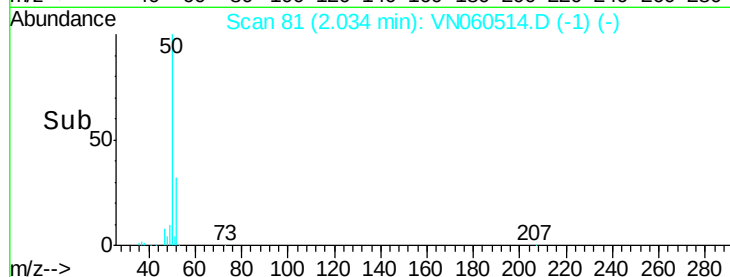
60000

40000

20000

0

Time--> 1.95 2.00 2.05 2.10 2.15



#4

Vinyl Chloride

Concen: 39.782 ug/l

RT: 2.16 min Scan# 121

Delta R.T. 0.00 min

Lab File: VN060514.D

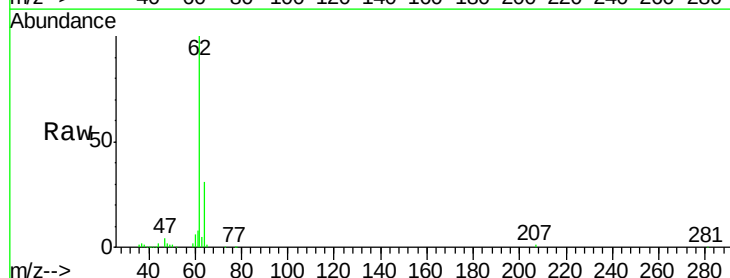
Acq: 16 Mar 2020 11:15

Tgt Ion: 62 Resp: 114582

Ion Ratio Lower Upper

62 100

64 31.1 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

2.16

80000

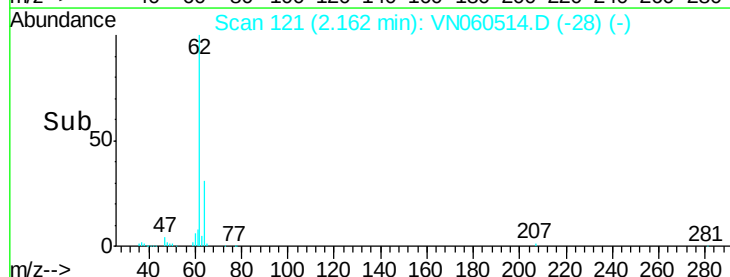
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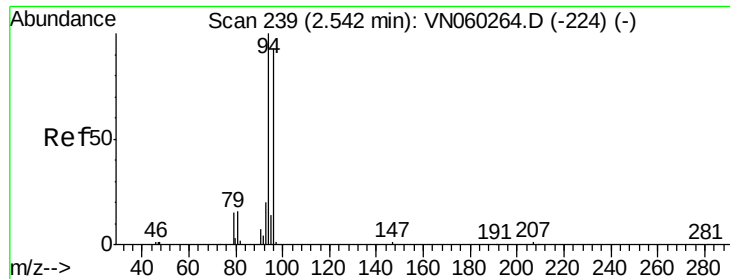
40000

20000

0

Time--> 2.10 2.15 2.20 2.25





#5

Bromomethane

Concen: 42.722 ug/l

RT: 2.54 min Scan# 237

Delta R.T. -0.01 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 94 Resp: 49936

Ion Ratio Lower Upper

94 100

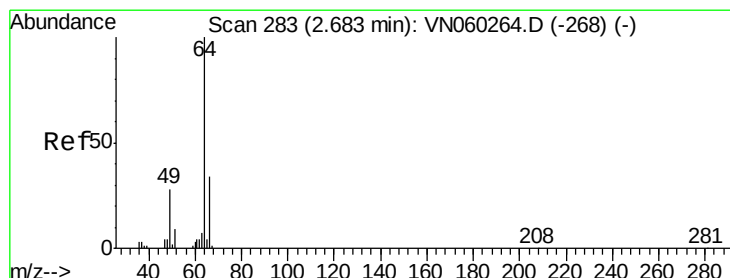
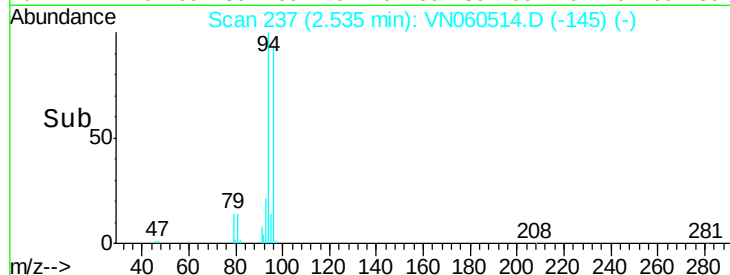
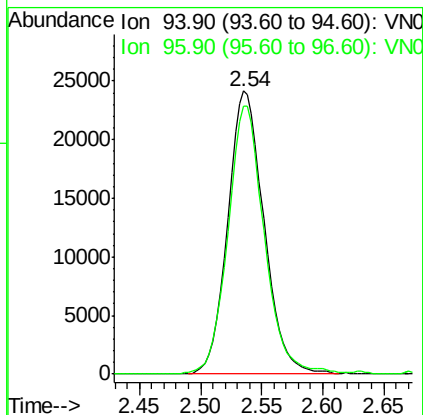
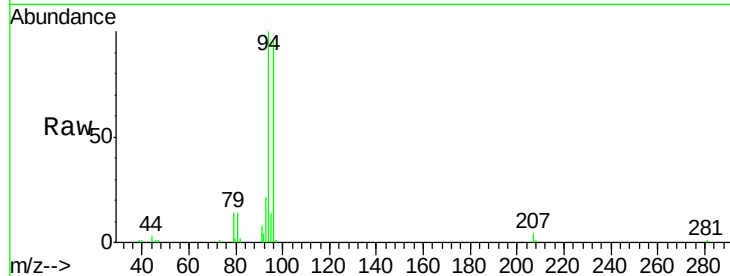
96 94.1 74.3 111.5

Manual Integrations

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#6

Chloroethane

Concen: 44.533 ug/l

RT: 2.68 min Scan# 282

Delta R.T. -0.00 min

Lab File: VN060514.D

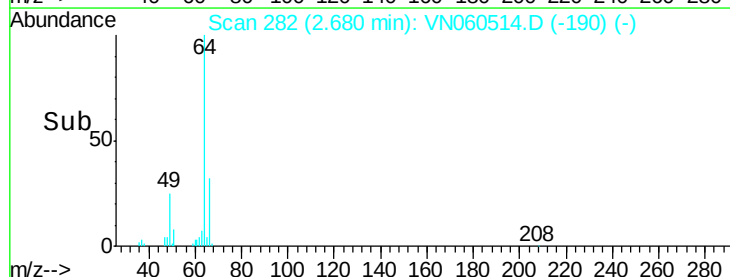
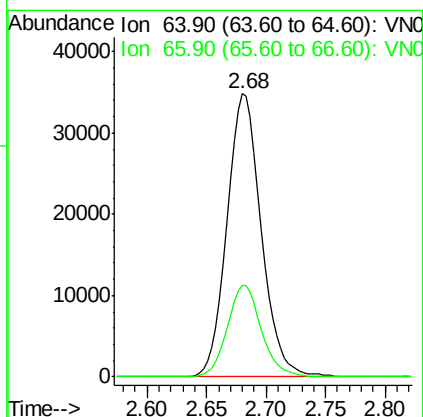
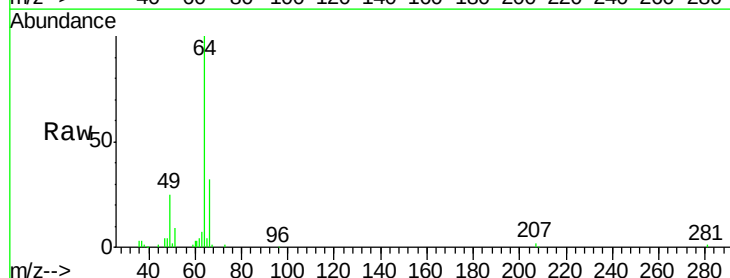
Acq: 16 Mar 2020 11:15

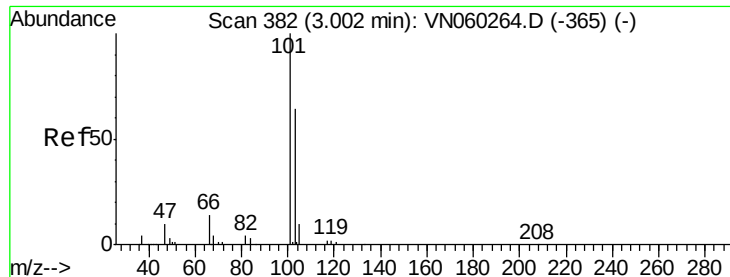
Tgt Ion: 64 Resp: 69497

Ion Ratio Lower Upper

64 100

66 32.5 27.4 41.2





#7

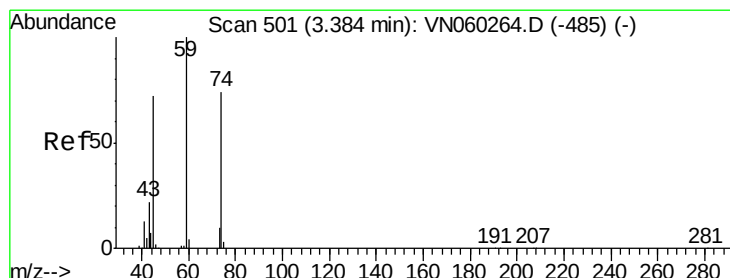
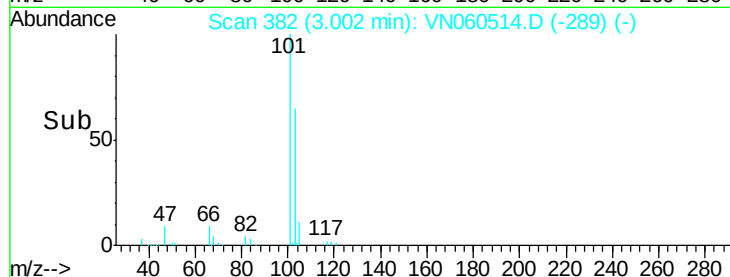
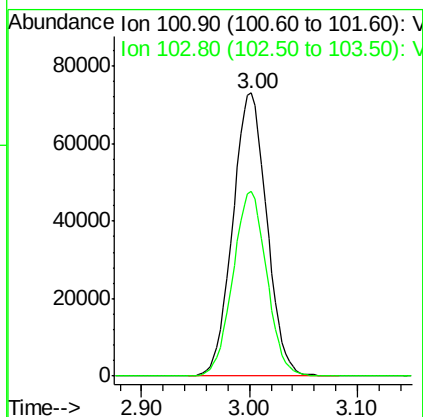
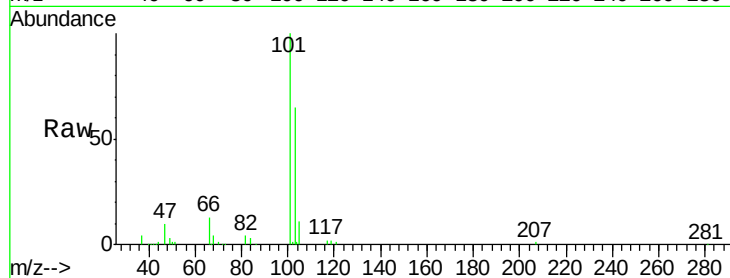
Trichlorofluoromethane
Concen: 43.725 ug/l
RT: 3.00 min Scan# 382
Delta R.T. 0.00 min
Lab File: VN060514.D
Acq: 16 Mar 2020 11:15

Instrument :
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ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.3	51.3	76.9

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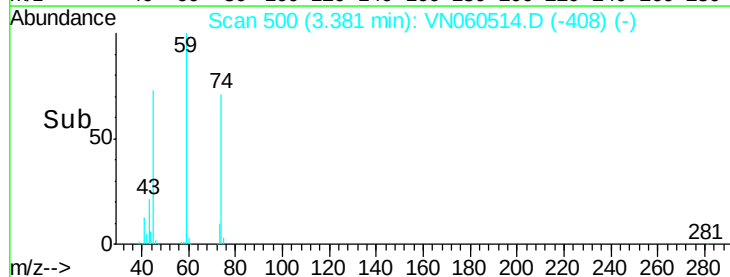
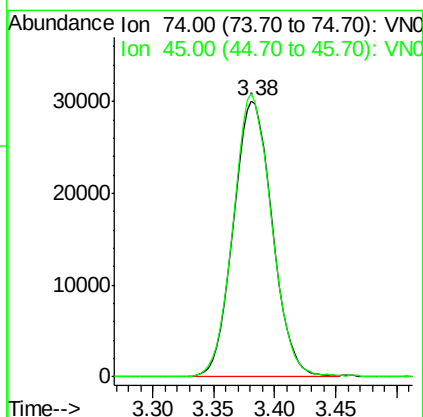
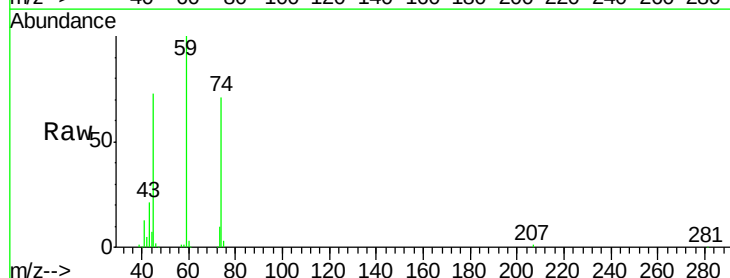
MMDadoda
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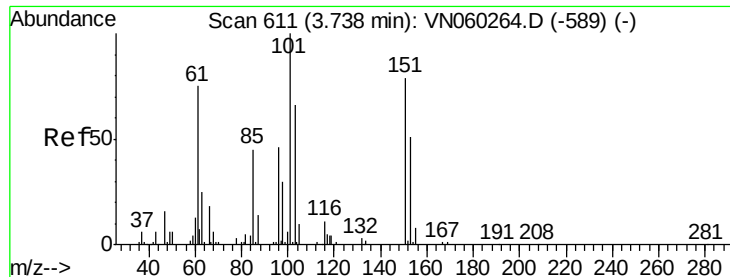


#8

Diethyl Ether
Concen: 47.843 ug/l
RT: 3.38 min Scan# 500
Delta R.T. -0.00 min
Lab File: VN060514.D
Acq: 16 Mar 2020 11:15

Tgt Ion	Ratio	Lower	Upper
74	100		
45	101.3	49.5	148.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.601 ug/l

RT: 3.73 min Scan# 610

Delta R.T. -0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Instrument :

MSVOA_N

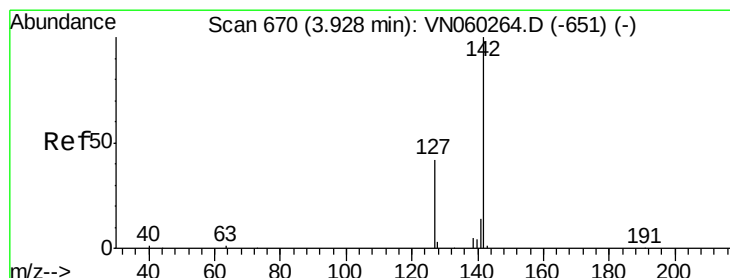
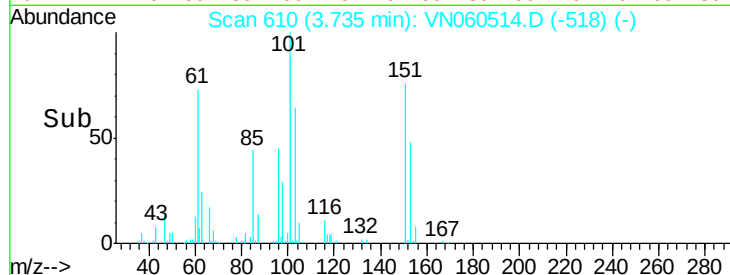
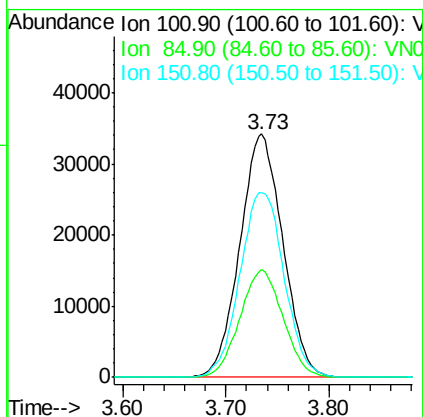
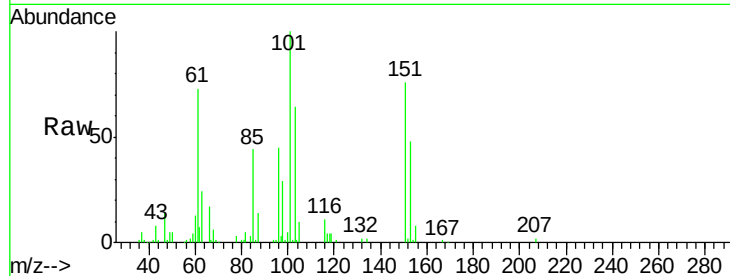
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	99136
Ion Ratio	Lower	Upper	
101	100		
85	44.3	35.4	53.2
151	78.2	62.0	93.0

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#10

Methyl Iodide

Concen: 38.621 ug/l

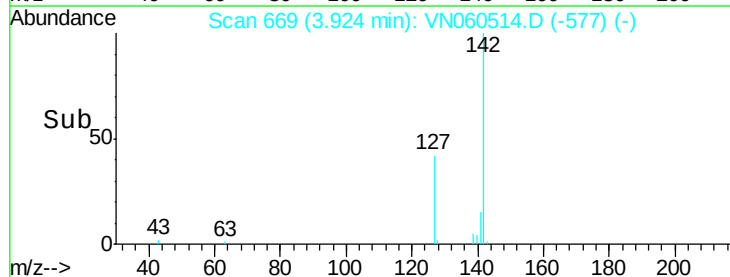
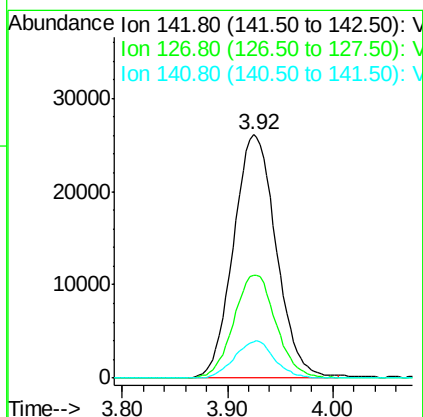
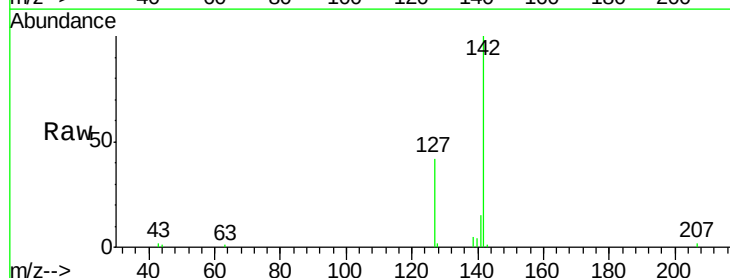
RT: 3.92 min Scan# 669

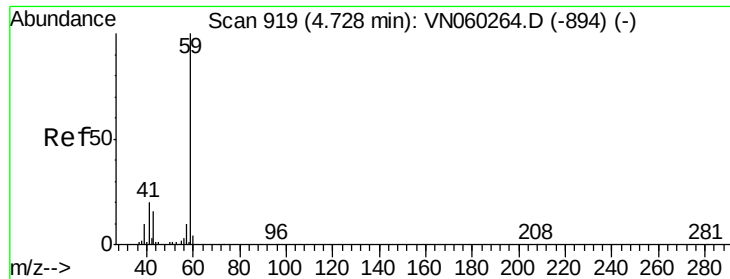
Delta R.T. -0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Tgt Ion:	142	Resp:	73408
Ion Ratio	Lower	Upper	
142	100		
127	41.8	33.8	50.6
141	14.2	11.1	16.7





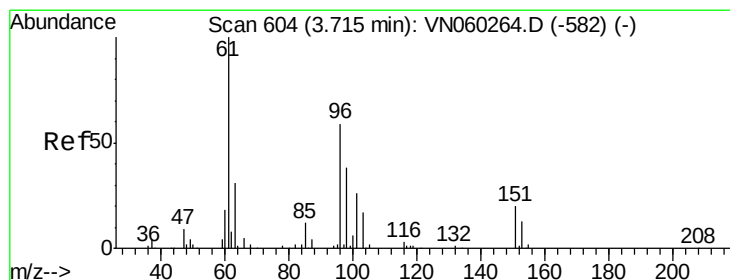
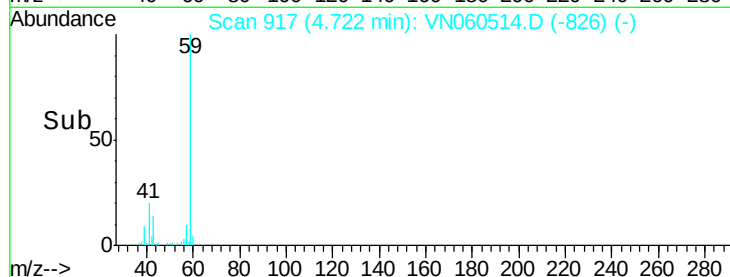
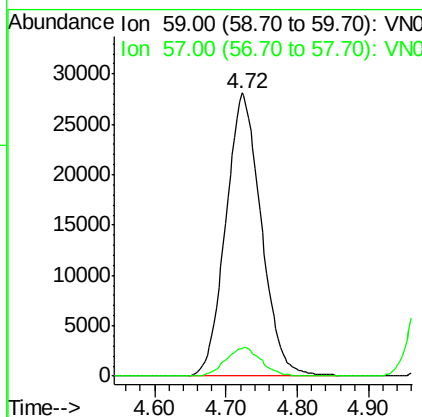
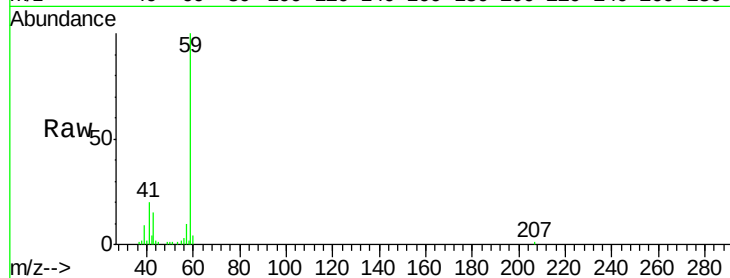
#11
Tert butyl alcohol
Concen: 242.053 ug/l
RT: 4.72 min Scan# 917
Delta R.T. -0.01 min
Lab File: VN060514.D
Acq: 16 Mar 2020 11:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.2	12.2

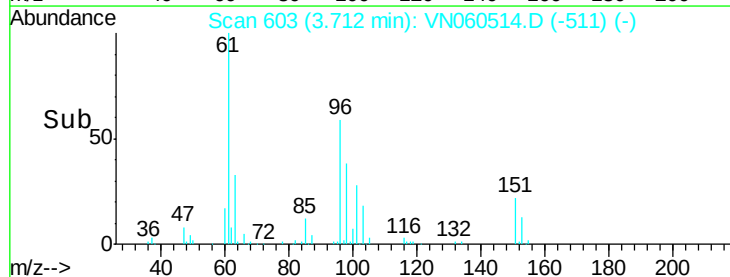
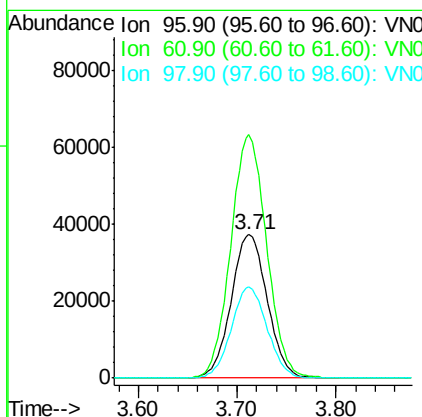
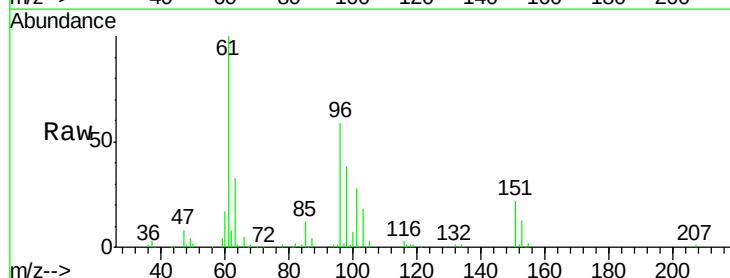
Manual Integrations
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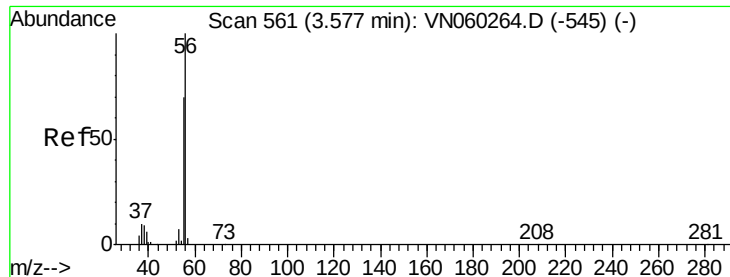
MMDadoda
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#12
1,1-Dichloroethene
Concen: 47.009 ug/l
RT: 3.71 min Scan# 603
Delta R.T. -0.00 min
Lab File: VN060514.D
Acq: 16 Mar 2020 11:15

Tgt Ion	Ratio	Lower	Upper
96	100		
61	170.0	135.4	203.0
98	64.0	51.6	77.4





#13

Acrolein

Concen: 239.986 ug/l

RT: 3.57 min Scan# 560

Delta R.T. -0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 89740

Ion Ratio Lower Upper

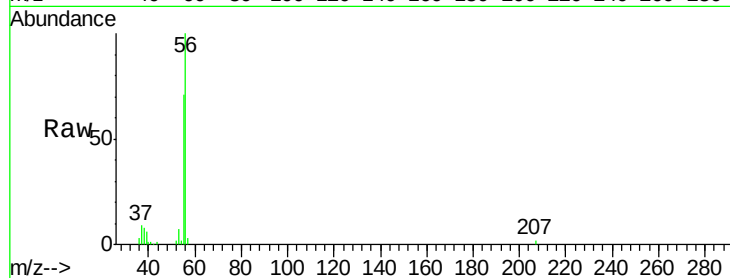
56 100

55 71.9 57.4 86.0

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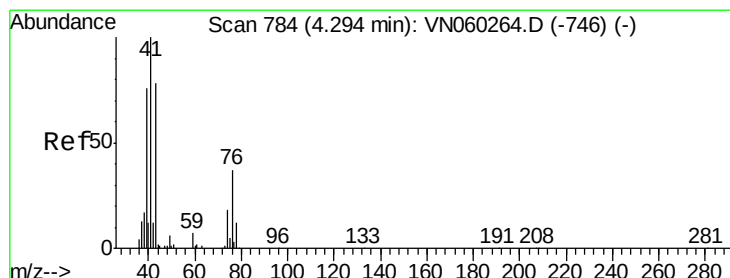
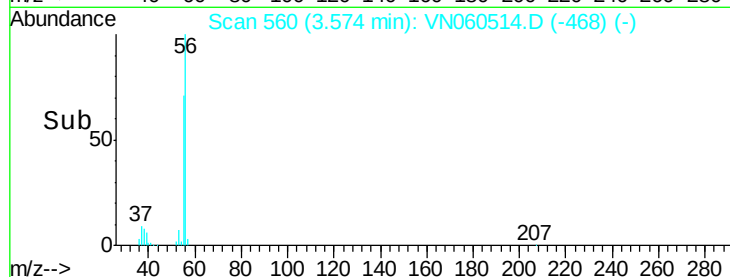
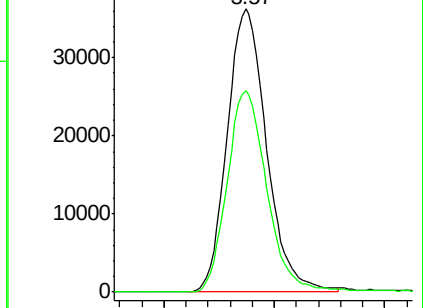
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Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO



#14

Allyl chloride

Concen: 46.141 ug/l

RT: 4.29 min Scan# 783

Delta R.T. -0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

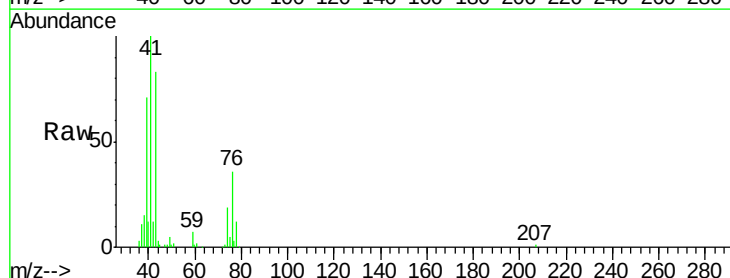
Tgt Ion: 41 Resp: 171964

Ion Ratio Lower Upper

41 100

39 73.5 55.4 83.2

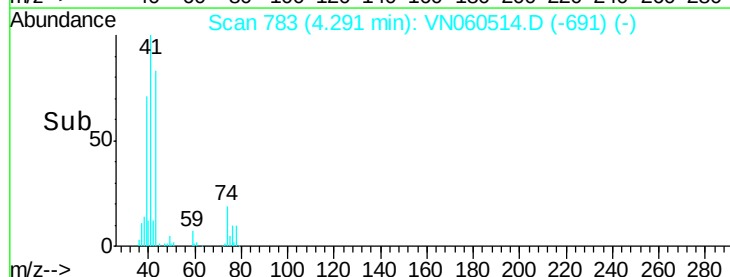
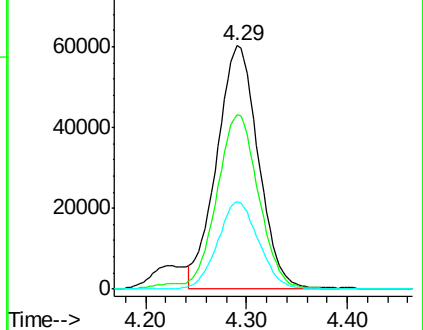
76 35.5 27.0 40.6

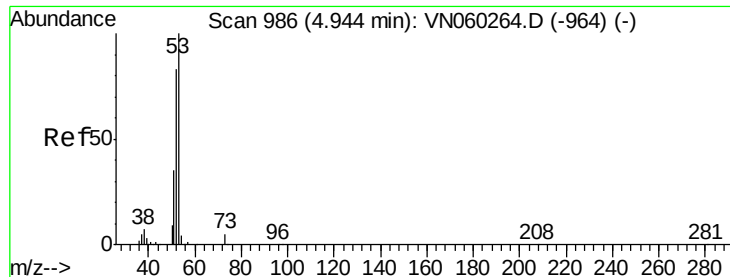


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO





#15

Acrylonitrile

Concen: 272.026 ug/l

RT: 4.94 min Scan# 985

Delta R.T. -0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Instrument :

MSVOA_N

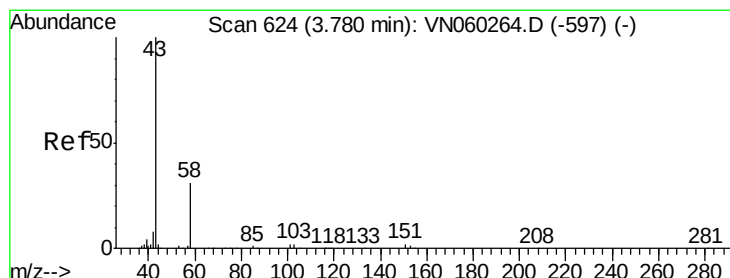
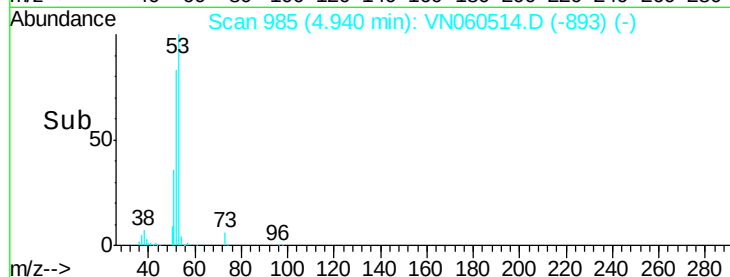
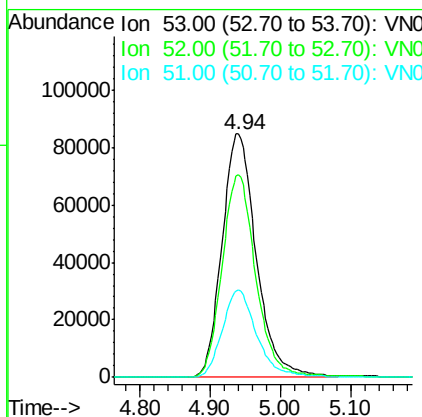
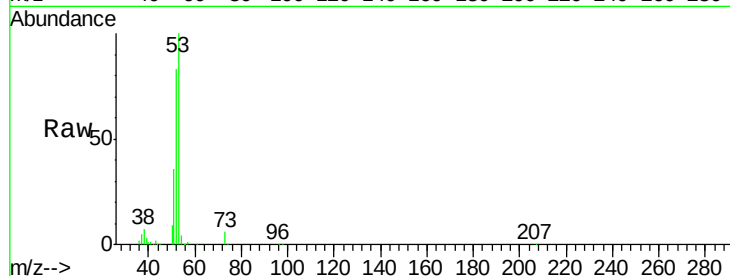
ClientSampled :

VSTDCCC050

Tot Ion:	53	Resp:	287398
Ion	Ratio	Lower	Upper
53	100		
52	82.0	66.8	100.2
51	36.2	29.0	43.6

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#16

Acetone

Concen: 300.755 ug/l

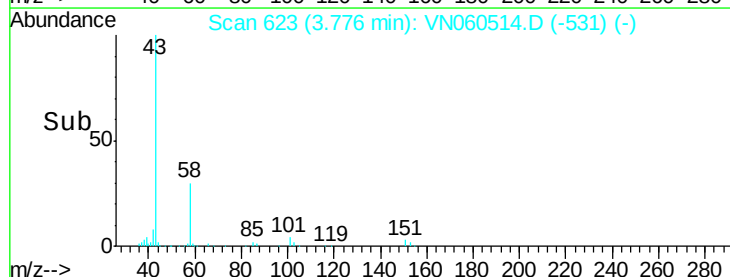
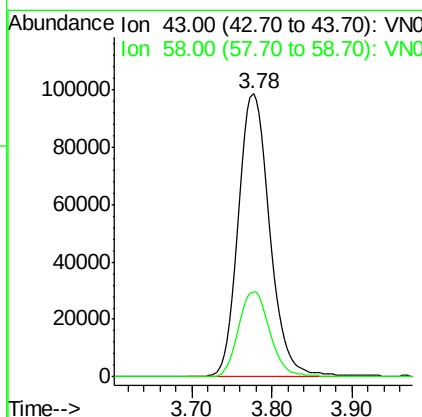
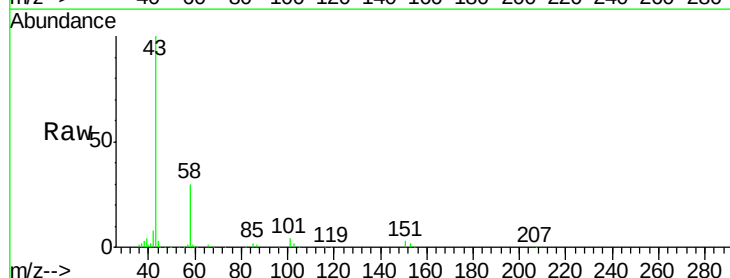
RT: 3.78 min Scan# 623

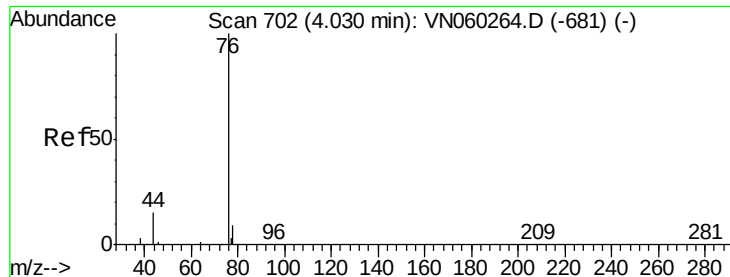
Delta R.T. -0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Tgt Ion:	43	Resp:	262176
Ion	Ratio	Lower	Upper
43	100		
58	30.2	24.6	36.8





#17

Carbon Disulfide

Concen: 41.986 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 225823

Ion Ratio Lower Upper

76 100

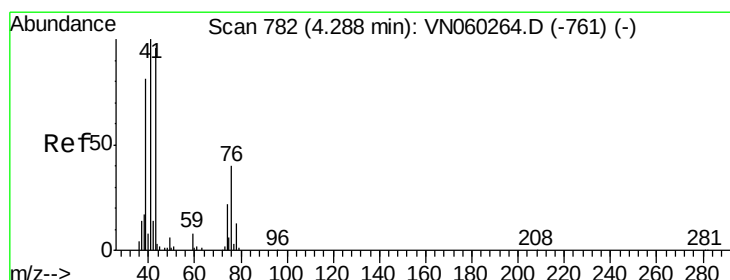
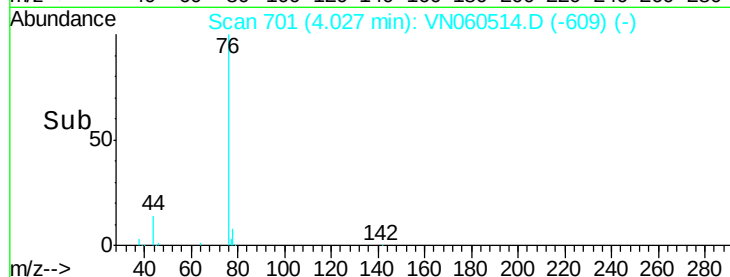
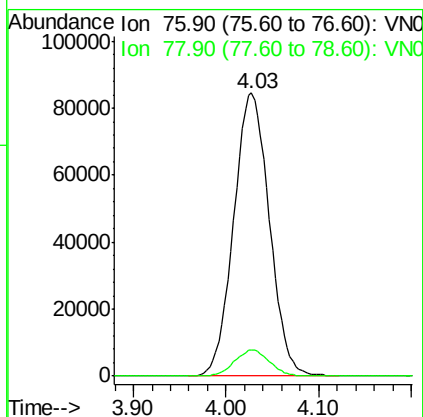
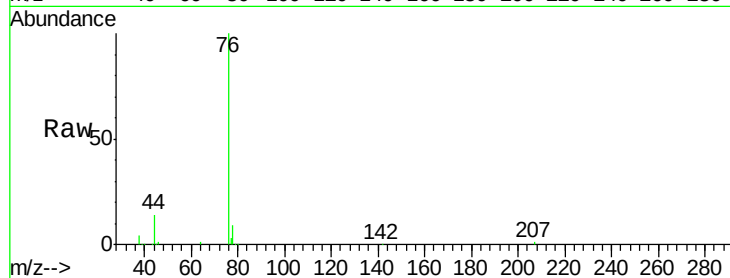
78 9.2 7.4 11.0

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#18

Methyl Acetate

Concen: 52.599 ug/l

RT: 4.28 min Scan# 781

Delta R.T. -0.00 min

Lab File: VN060514.D

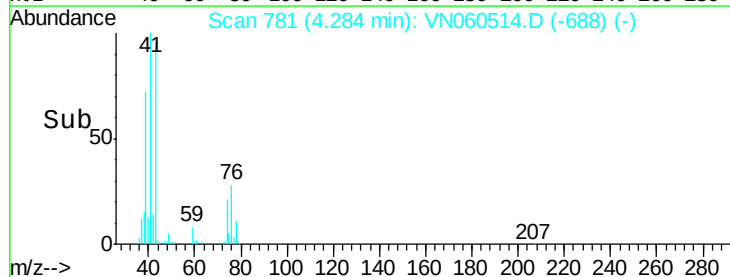
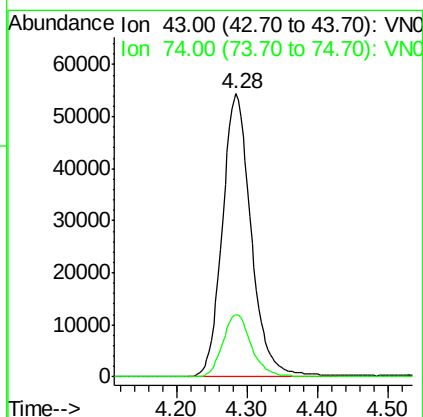
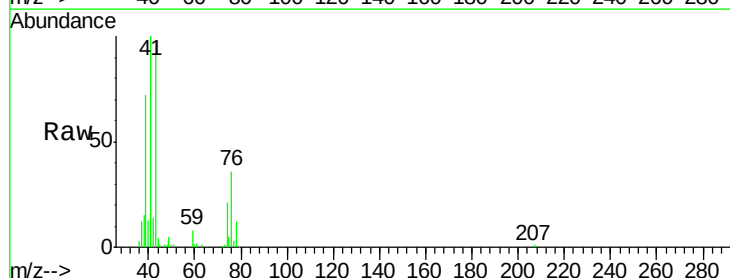
Acq: 16 Mar 2020 11:15

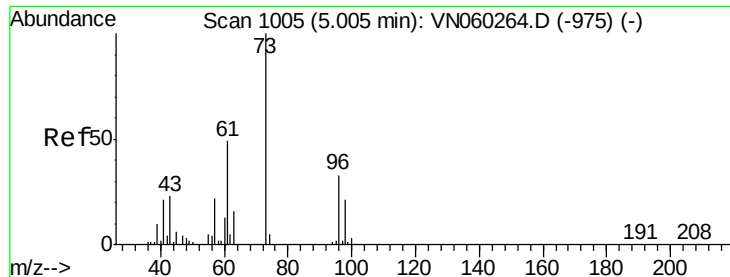
Tgt Ion: 43 Resp: 153017

Ion Ratio Lower Upper

43 100

74 22.2 18.8 28.2





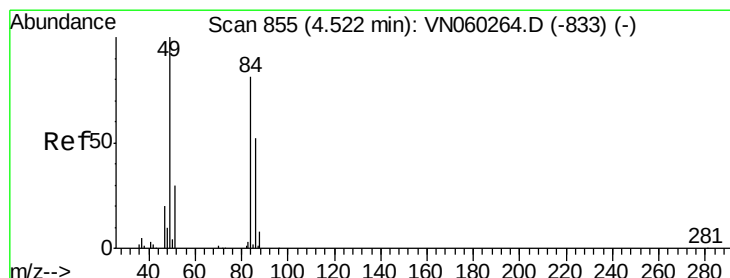
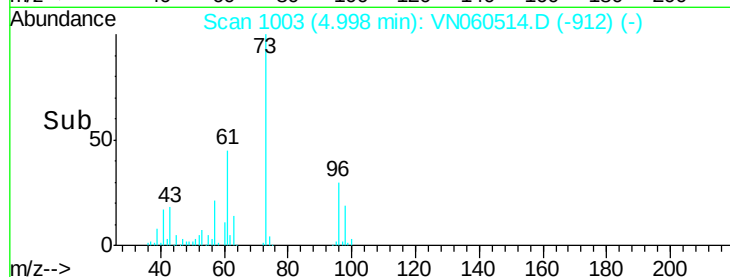
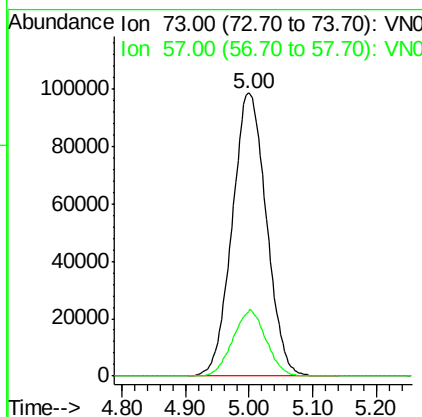
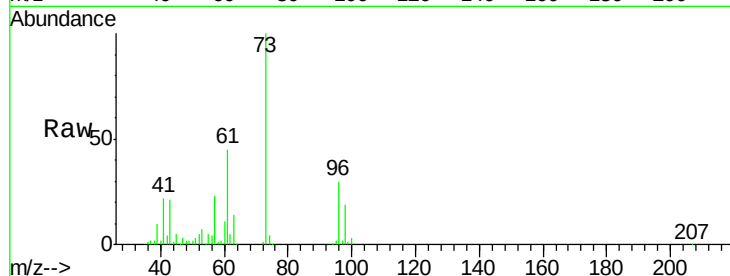
#19
Methyl tert-butyl Ether
Concen: 50.147 ug/l
RT: 5.00 min Scan# 1003
Delta R.T. -0.01 min
Lab File: VN060514.D
Acq: 16 Mar 2020 11:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 368020
Ion Ratio Lower Upper
73 100
57 22.9 17.3 25.9

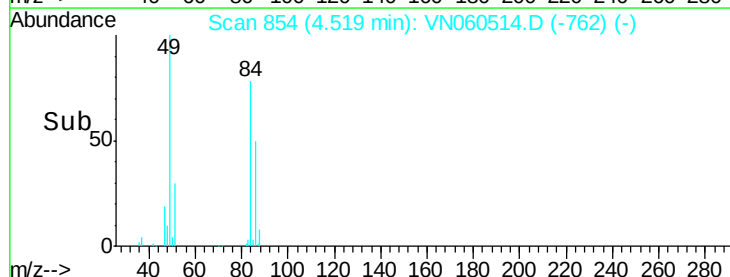
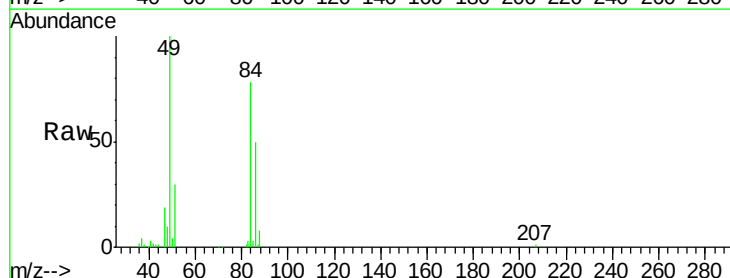
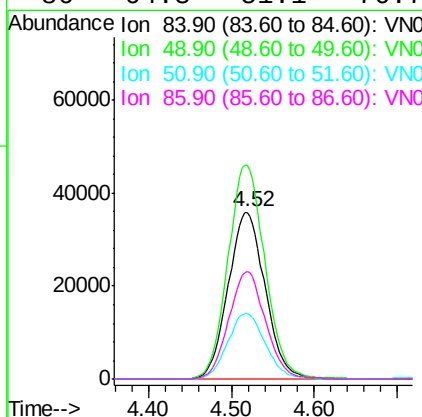
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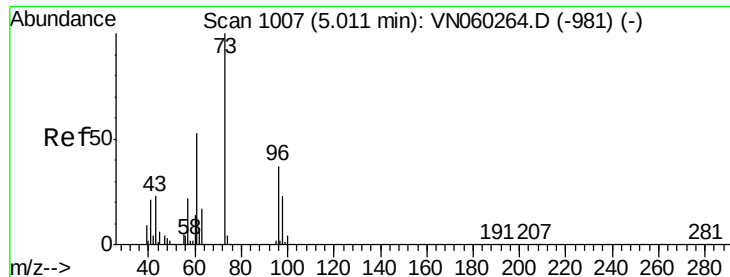
MMDadoda
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#20
Methylene Chloride
Concen: 46.568 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN060514.D
Acq: 16 Mar 2020 11:15

Tgt Ion: 84 Resp: 111485
Ion Ratio Lower Upper
84 100
49 127.8 99.3 148.9
51 38.9 30.1 45.1
86 64.3 51.1 76.7





#21

trans-1,2-Dichloroethene

Concen: 47.204 ug/l

RT: 5.01 min Scan# 1006

Delta R.T. -0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 102566

Ion Ratio Lower Upper

96 100

61 146.6 113.8 170.8

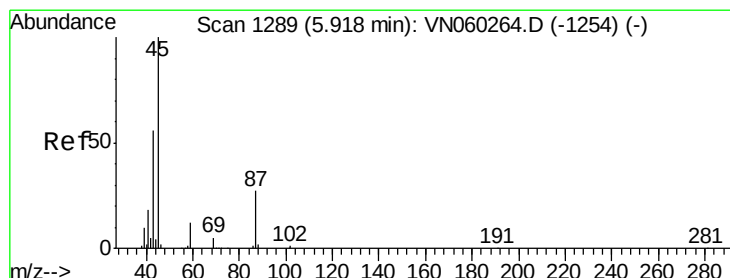
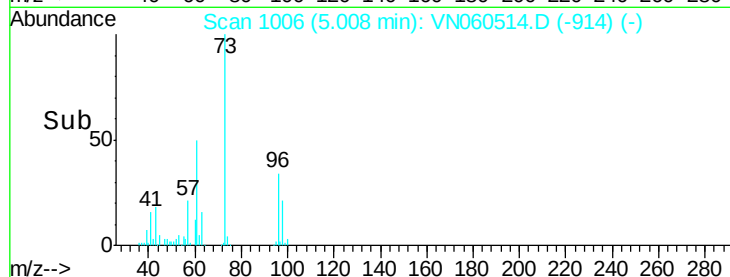
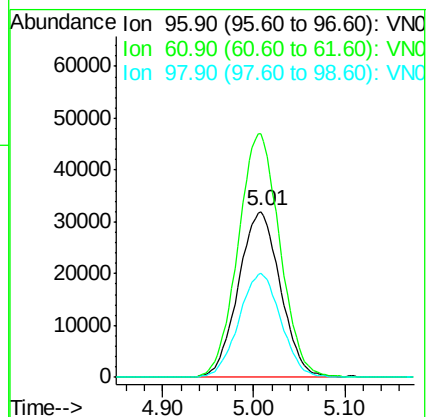
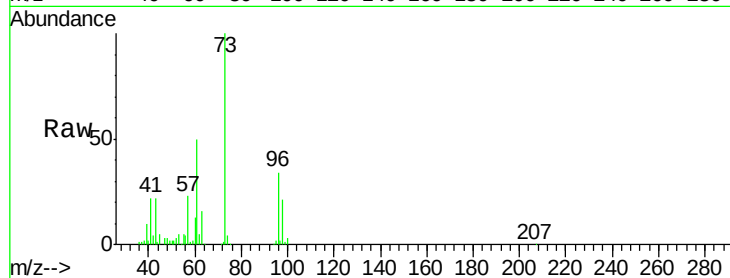
98 62.5 48.8 73.2

Manual Integrations

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#22

Diisopropyl ether

Concen: 53.701 ug/l

RT: 5.91 min Scan# 1288

Delta R.T. -0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Tgt Ion: 45 Resp: 405403

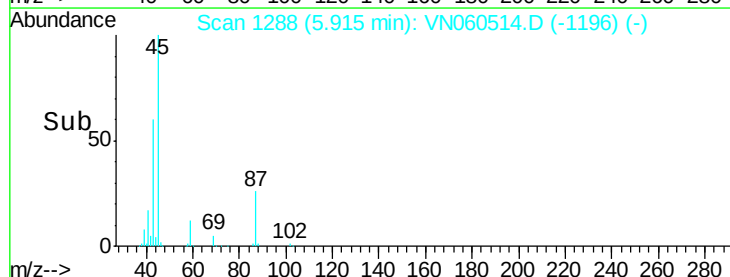
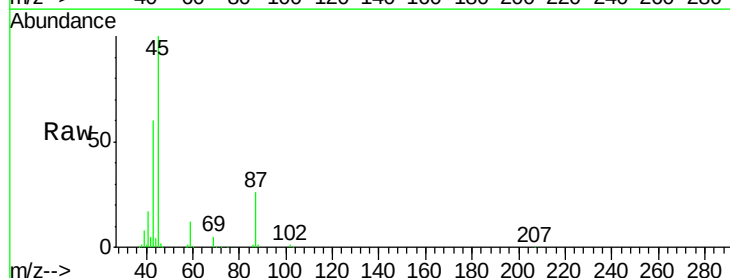
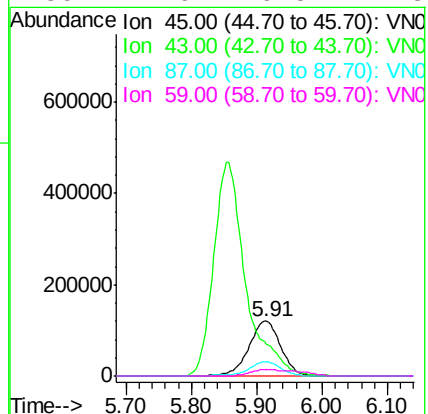
Ion Ratio Lower Upper

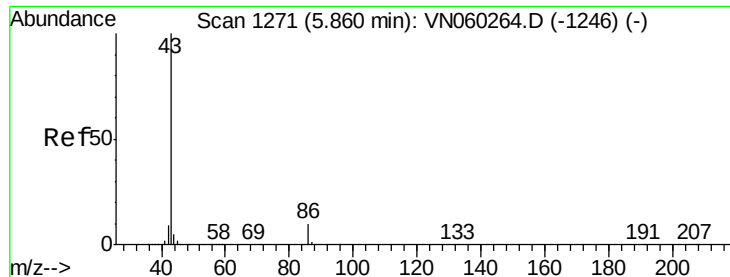
45 100

43 58.7 48.6 72.8

87 25.7 22.2 33.2

59 11.6 9.5 14.3





#23

Vinyl Acetate

Concen: 265.560 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. -0.01 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1593050

Ion Ratio Lower Upper

43 100

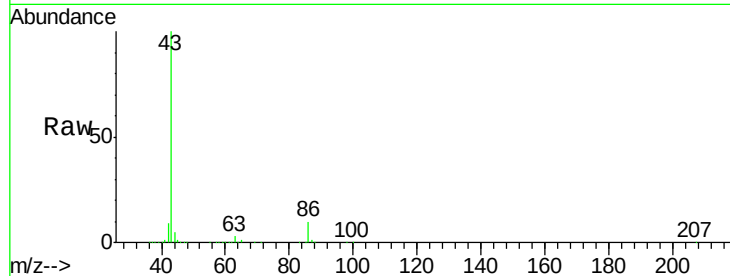
86 9.5 8.0 12.0

Manual Integrations

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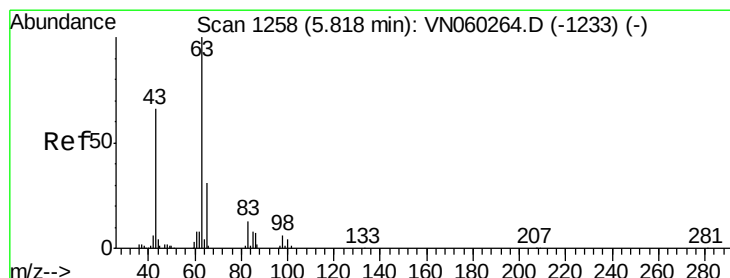
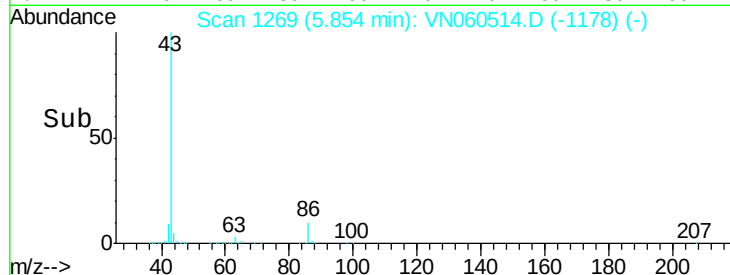
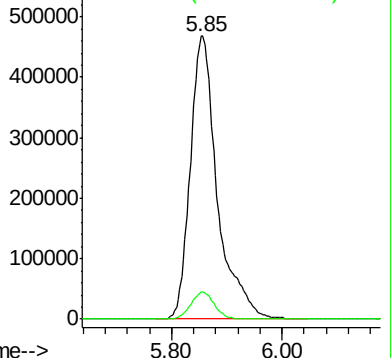
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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 50.222 ug/l

RT: 5.81 min Scan# 1257

Delta R.T. -0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

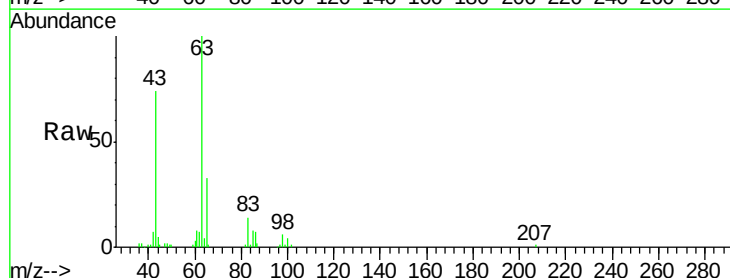
Tgt Ion: 63 Resp: 214615

Ion Ratio Lower Upper

63 100

98 6.3 3.0 9.0

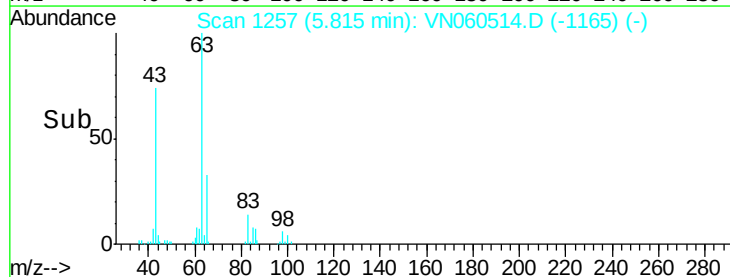
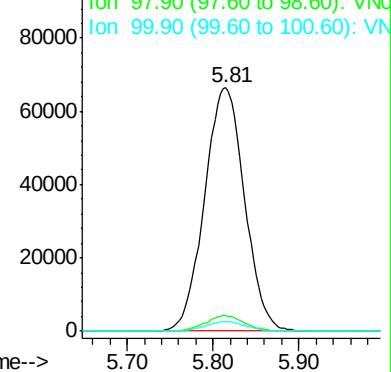
100 3.9 2.0 6.0

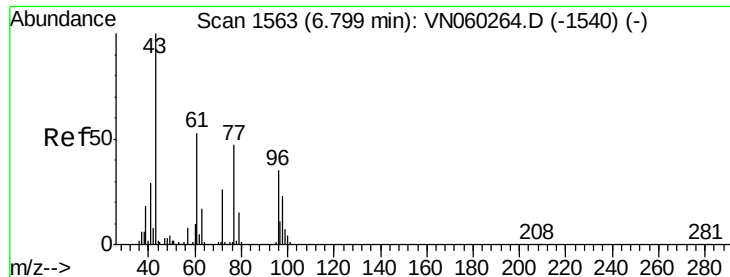


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 286.157 ug/l

RT: 6.79 min Scan# 1561

Delta R.T. -0.01 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 402922

Ion Ratio Lower Upper

43 100

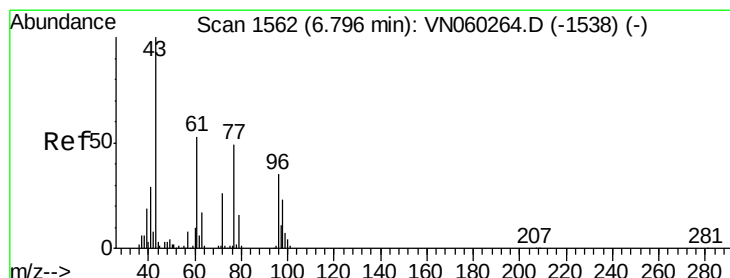
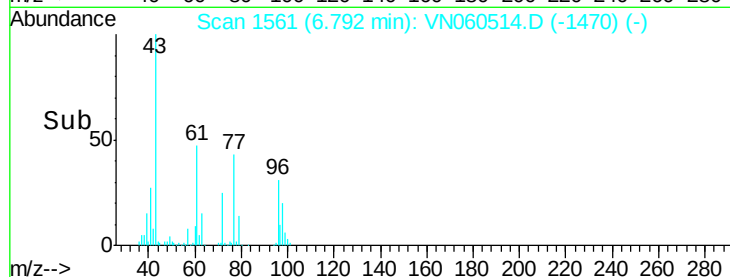
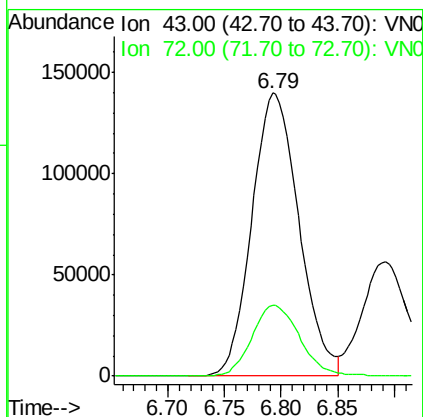
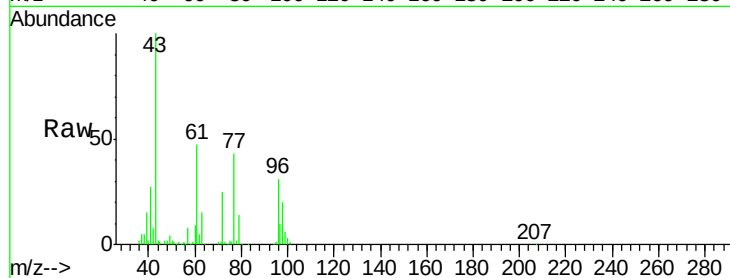
72 25.3 20.9 31.3

Manual Integrations

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3/17/2020 11:48:10 AM



#26

2,2-Dichloropropane

Concen: 49.690 ug/l

RT: 6.79 min Scan# 1560

Delta R.T. -0.01 min

Lab File: VN060514.D

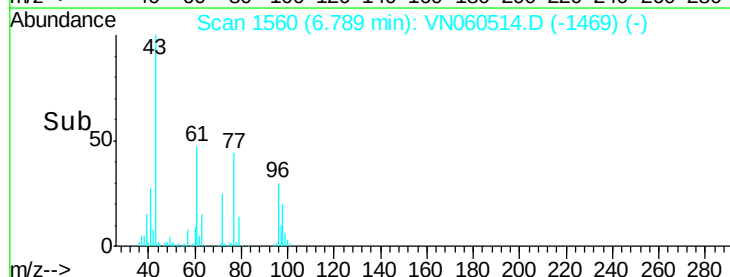
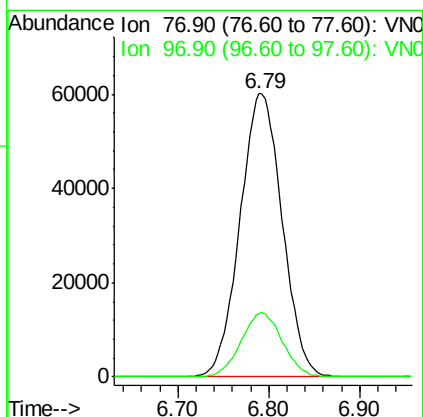
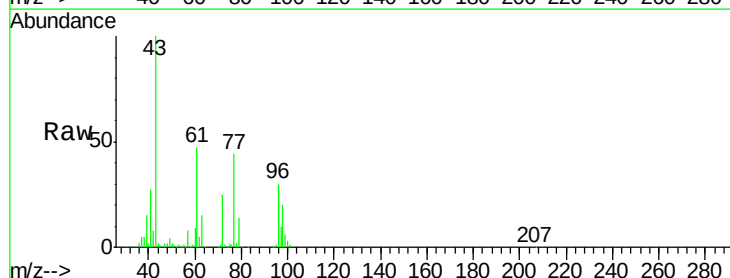
Acq: 16 Mar 2020 11:15

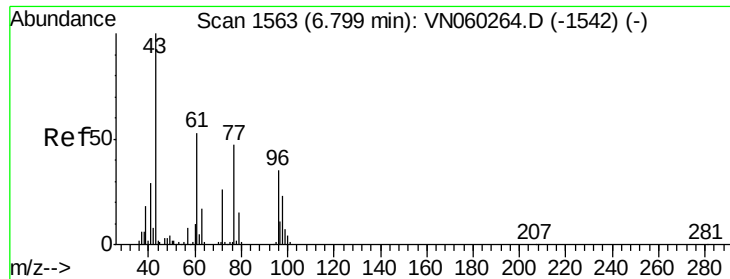
Tgt Ion: 77 Resp: 193313

Ion Ratio Lower Upper

77 100

97 22.2 11.2 33.6





#27

cis-1,2-Dichloroethene

Concen: 45.723 ug/l

RT: 6.80 min Scan# 1562

Delta R.T. -0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Instrument :

MSVOA_N

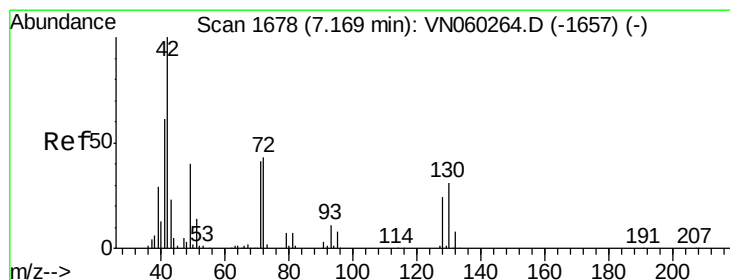
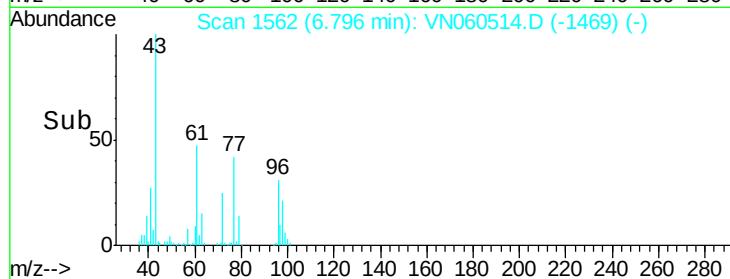
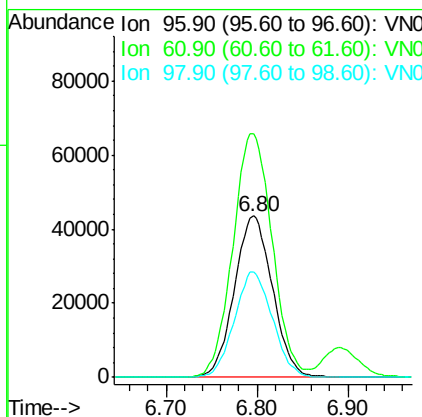
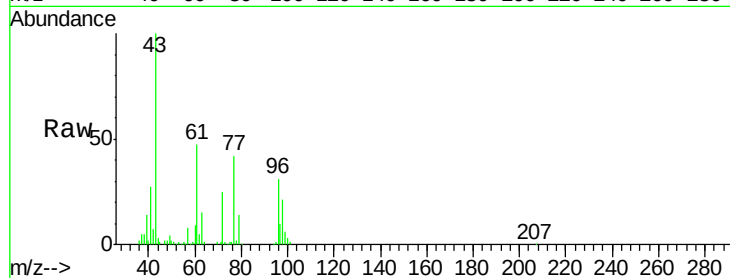
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	126928
Ion	Ratio	Lower	Upper
96	100		
61	155.6	0.0	300.8
98	65.2	0.0	128.2

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3/17/2020 11:48:10 AM



#28

Bromochloromethane

Concen: 52.254 ug/l

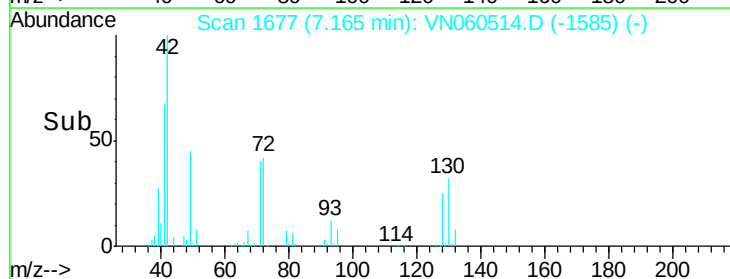
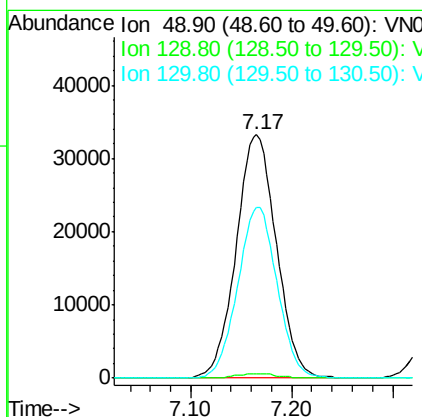
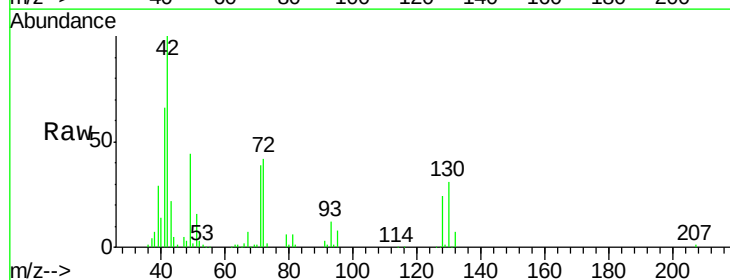
RT: 7.17 min Scan# 1677

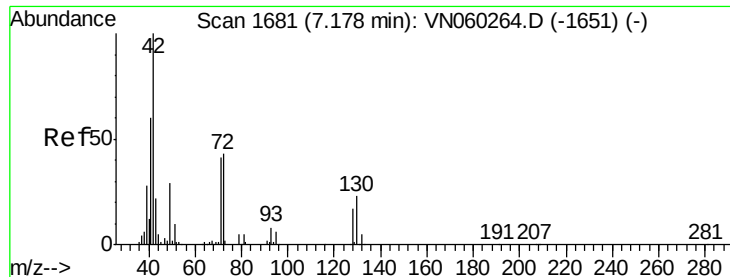
Delta R.T. -0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Tgt Ion:	49	Resp:	91681
Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.8
130	68.9	59.8	89.8





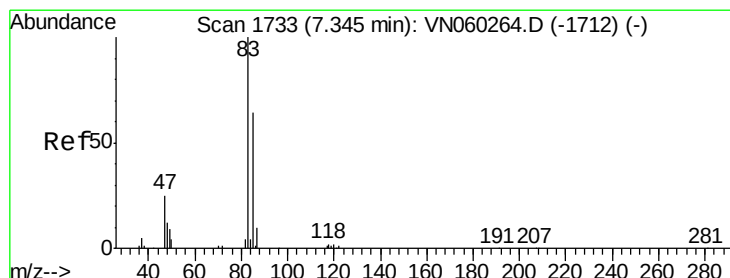
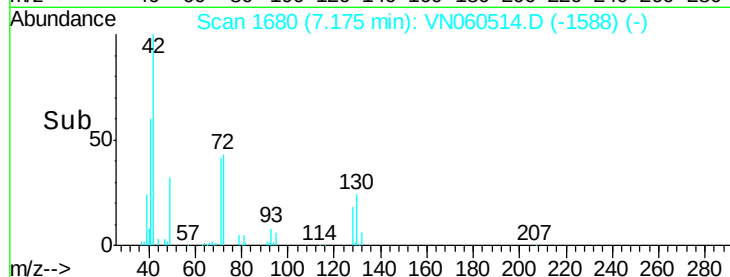
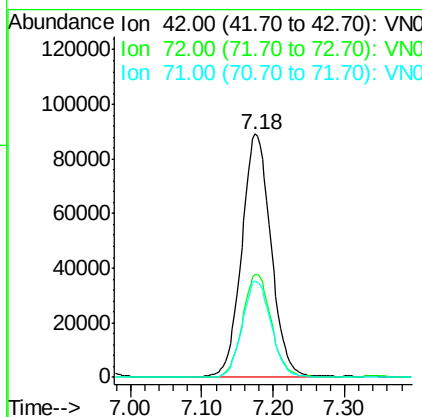
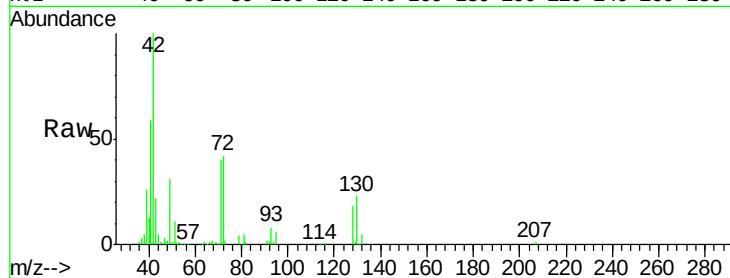
#29
Tetrahydrofuran
Concen: 260.919 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN060514.D
Acq: 16 Mar 2020 11:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.5	34.6	52.0
71	38.8	32.9	49.3

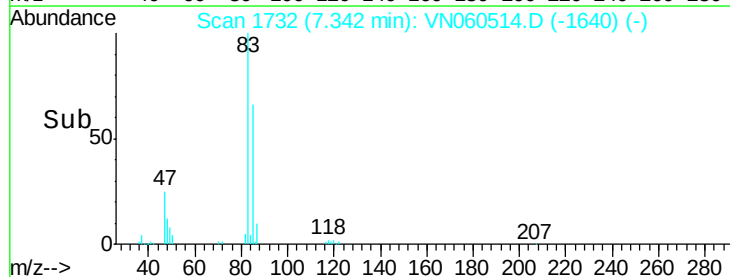
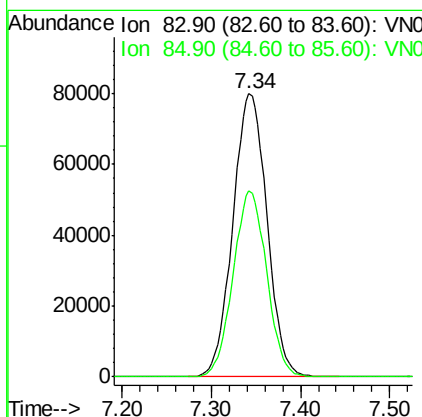
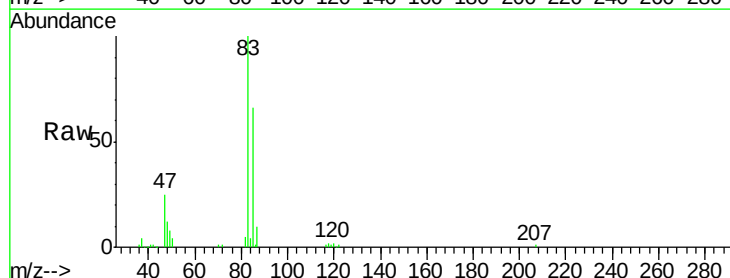
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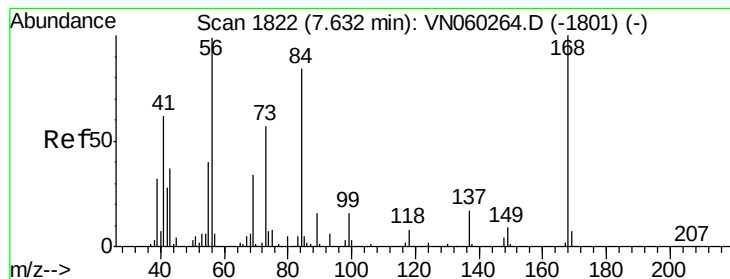
MMDadoda
3/17/2020 11:48:10 AM



#30
Chloroform
Concen: 49.964 ug/l
RT: 7.34 min Scan# 1732
Delta R.T. -0.00 min
Lab File: VN060514.D
Acq: 16 Mar 2020 11:15

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.9	51.4	77.2





#31

Cyclohexane

Concen: 48.790 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Instrument :

MSVOA_N

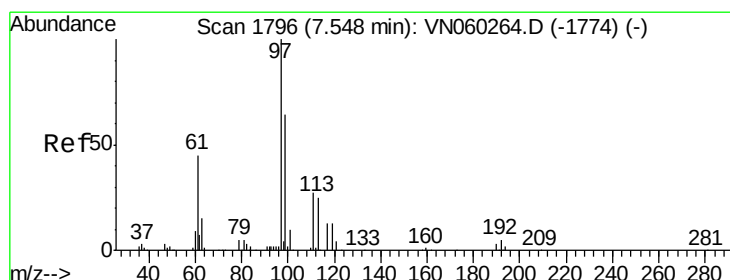
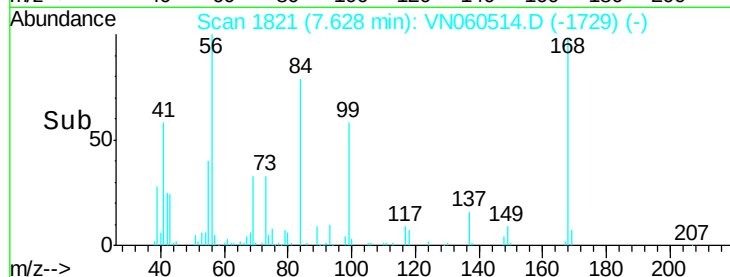
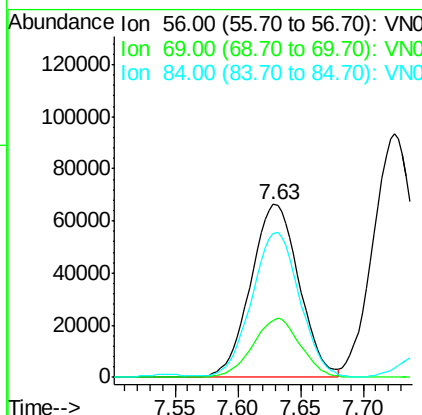
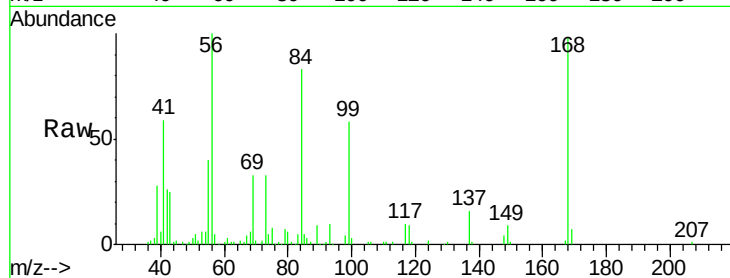
ClientSampled :

VSTDCCC050

Tot Ion:	56	Resp:	178040
Ion	Ratio	Lower	Upper
56	100		
69	33.2	27.2	40.8
84	82.4	66.7	100.1

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 47.985 ug/l

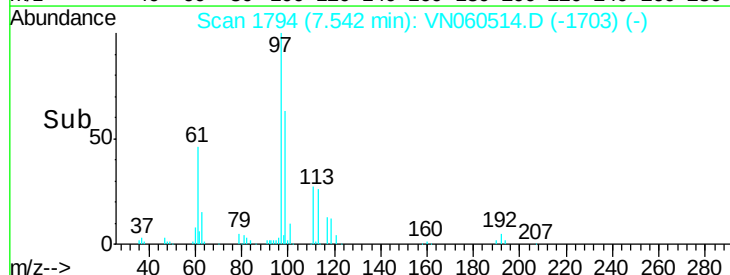
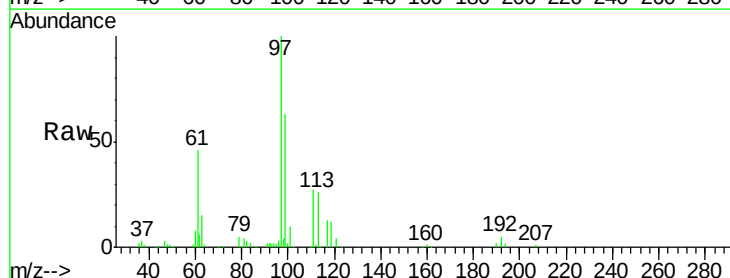
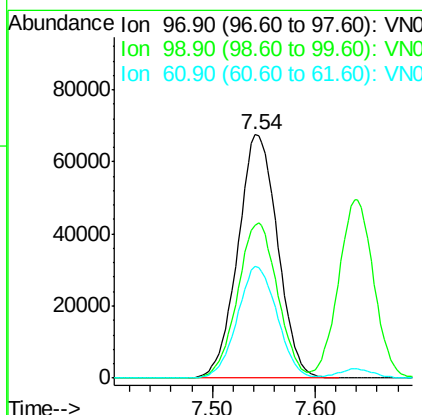
RT: 7.54 min Scan# 1794

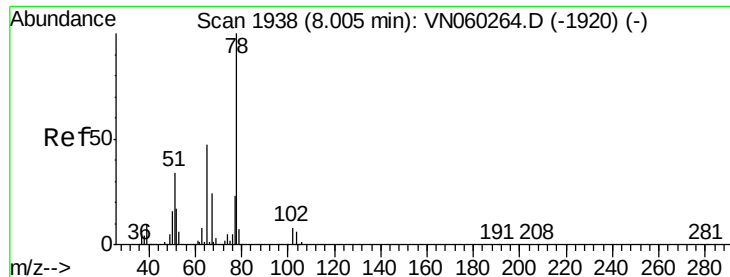
Delta R.T. -0.01 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Tgt Ion:	97	Resp:	180859
Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.4	77.0
61	45.8	36.6	55.0





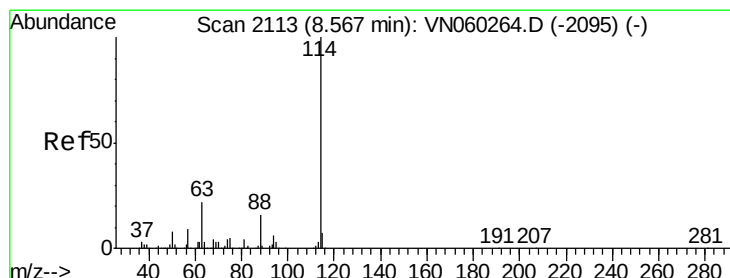
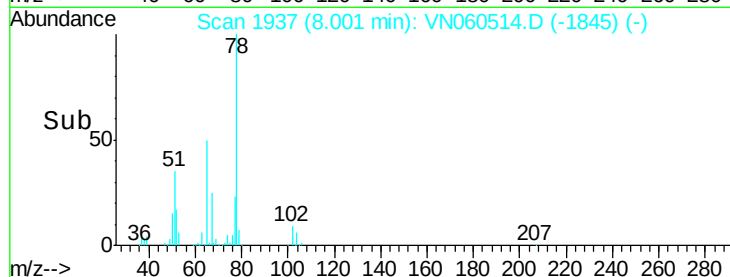
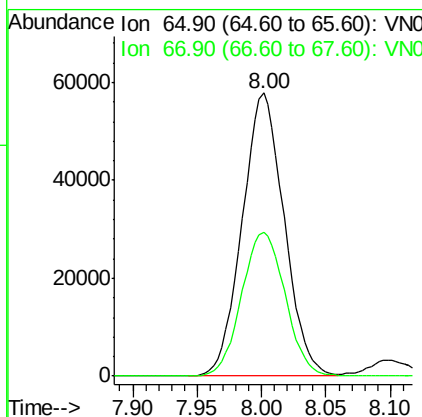
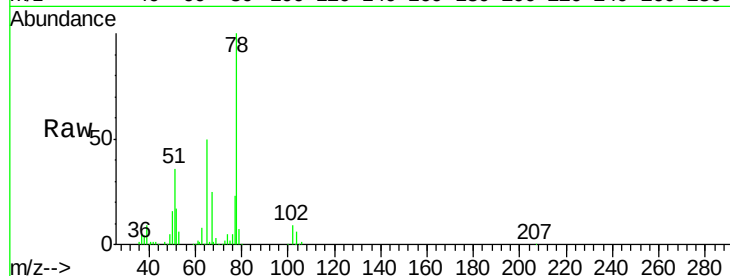
#33
 1,2-Dichloroethane-d4
 Concen: 48.693 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VN060514.D
 Acq: 16 Mar 2020 11:15

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	52.8	0.0	103.8	

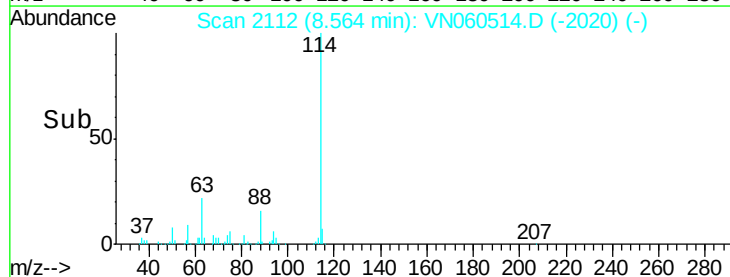
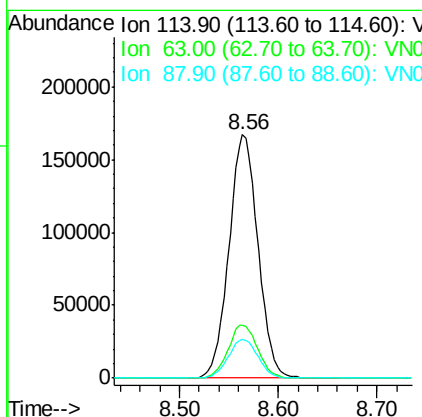
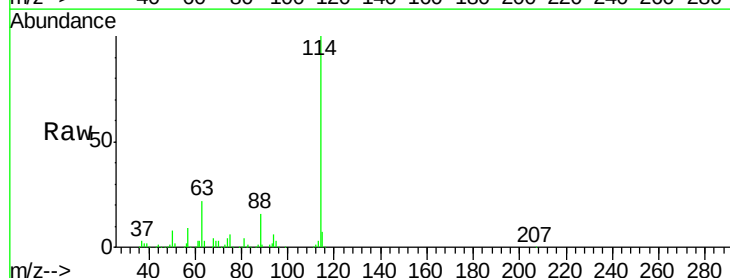
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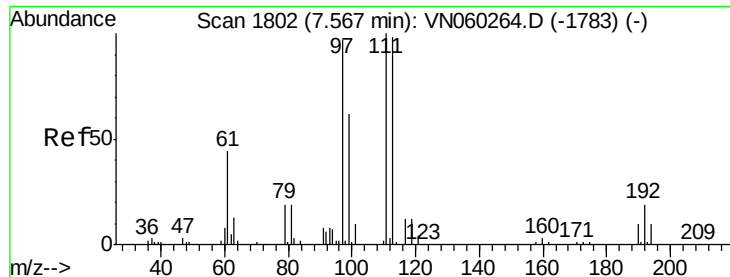
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VN060514.D
 Acq: 16 Mar 2020 11:15

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	22.0	0.0	43.2	
88	15.9	0.0	31.6	





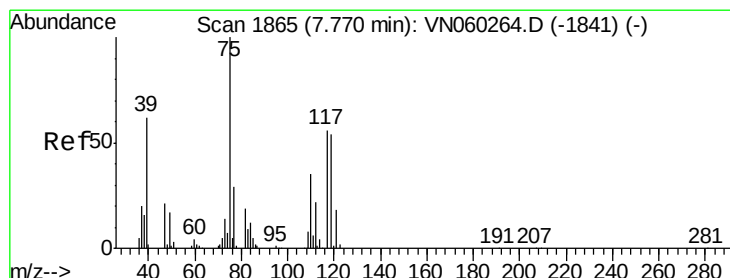
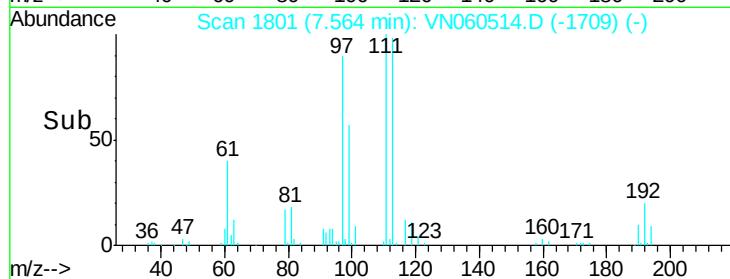
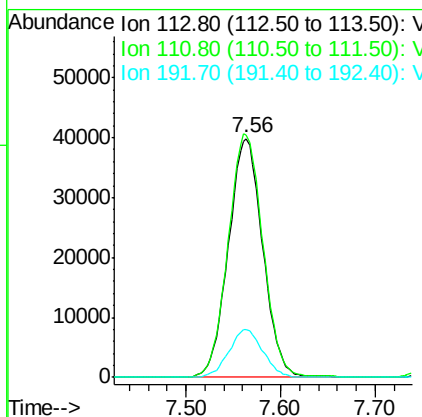
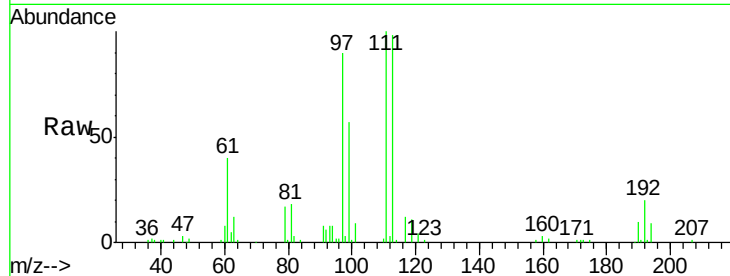
#35
 Dibromofluoromethane
 Concen: 63.151 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060514.D
 Acq: 16 Mar 2020 11:15

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	100417		
111	103.3	82.4	123.6	
192	19.8	16.2	24.2	

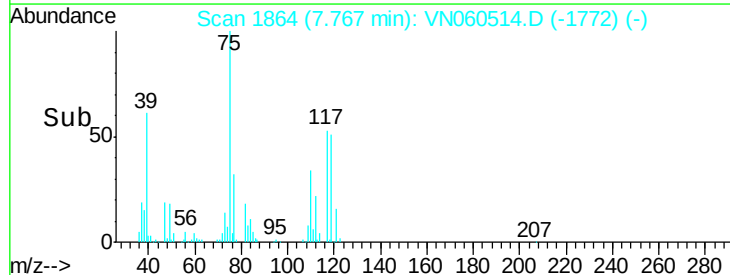
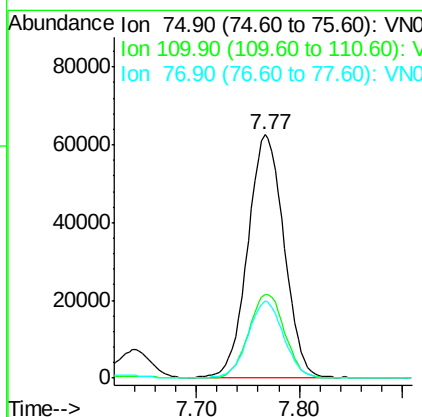
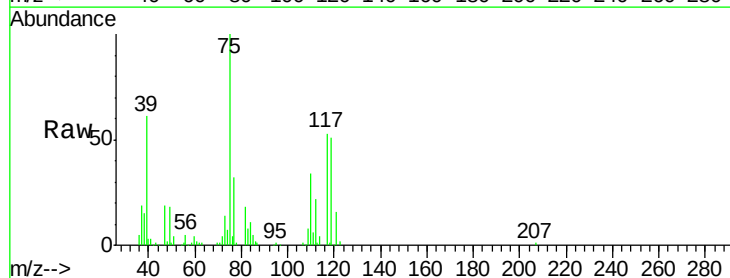
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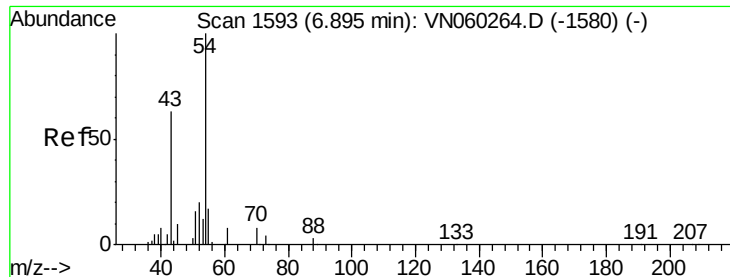
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#36
 1,1-Dichloropropene
 Concen: 46.483 ug/l
 RT: 7.77 min Scan# 1864
 Delta R.T. -0.00 min
 Lab File: VN060514.D
 Acq: 16 Mar 2020 11:15

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	151762		
110	34.3	17.3	52.0	
77	31.4	24.2	36.2	





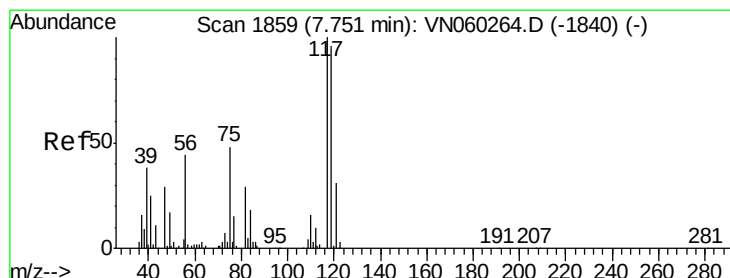
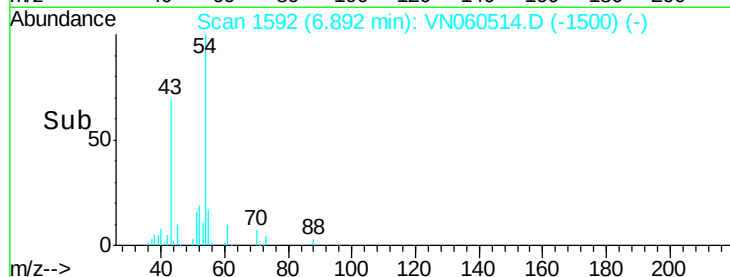
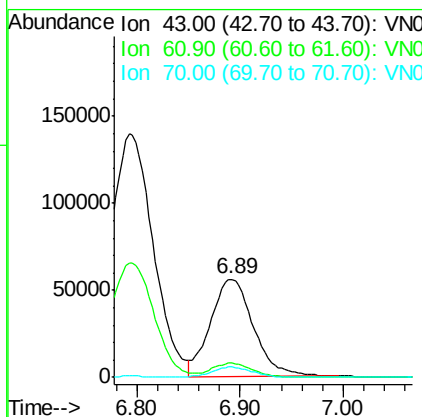
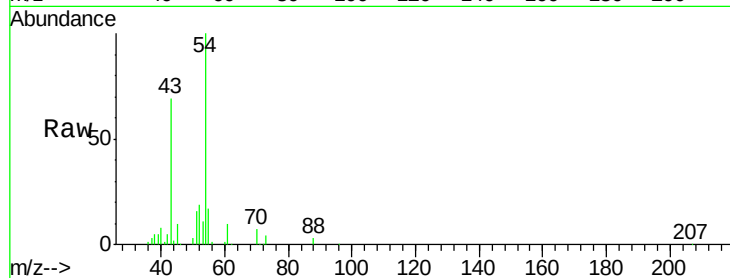
#37
Ethyl Acetate
Concen: 52.621 ug/l
RT: 6.89 min Scan# 1592
Delta R.T. -0.00 min
Lab File: VN060514.D
Acq: 16 Mar 2020 11:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.9	11.1	16.7
70	10.1	8.4	12.6

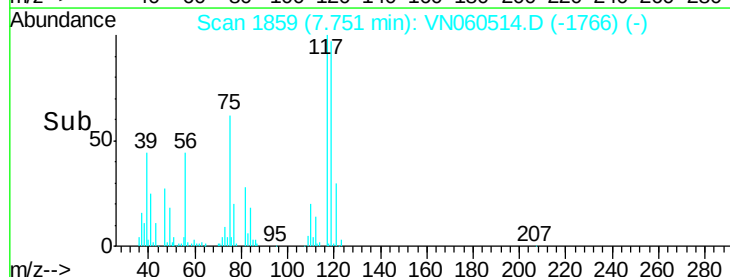
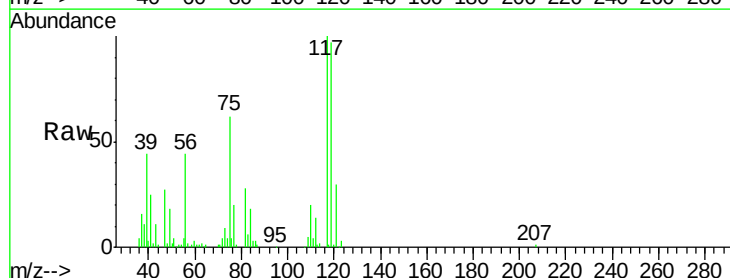
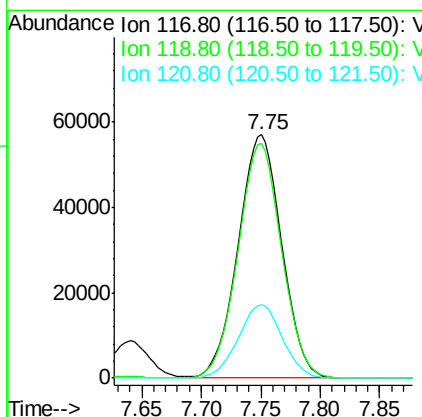
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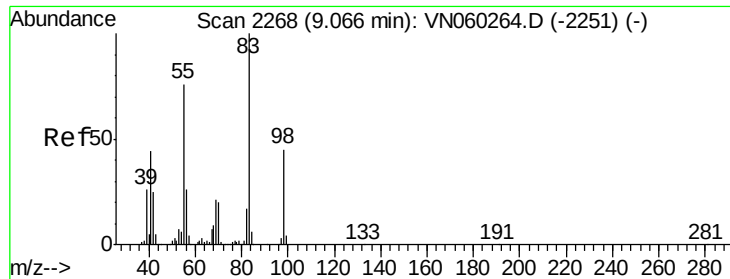
MMDadoda
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#38
Carbon Tetrachloride
Concen: 45.411 ug/l
RT: 7.75 min Scan# 1859
Delta R.T. 0.00 min
Lab File: VN060514.D
Acq: 16 Mar 2020 11:15

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.6	76.7	115.1
121	30.2	24.5	36.7





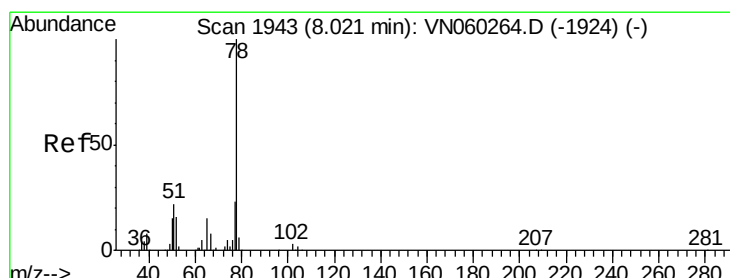
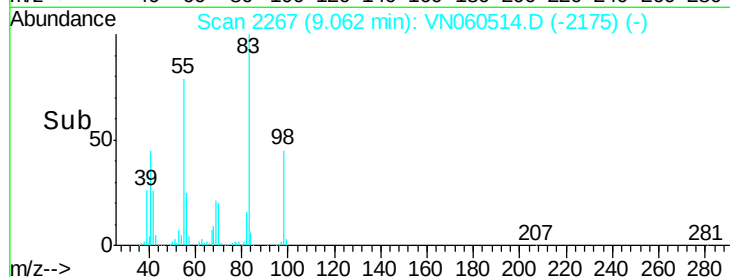
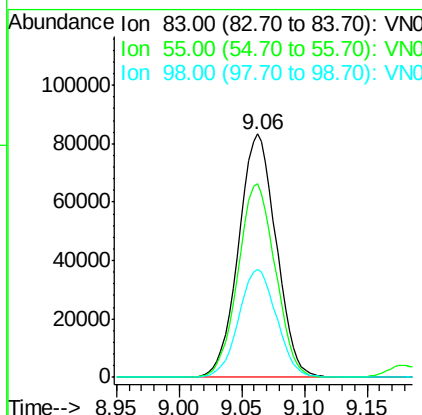
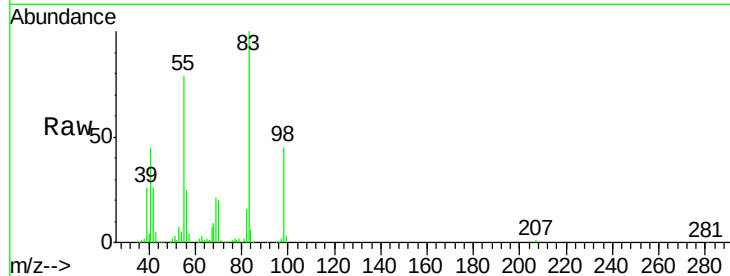
#39
Methylvlcyclohexane
Concen: 44.990 ug/l
RT: 9.06 min Scan# 2267
Delta R.T. -0.00 min
Lab File: VN060514.D
Acq: 16 Mar 2020 11:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	79.3	61.0	91.4
98	44.5	36.1	54.1

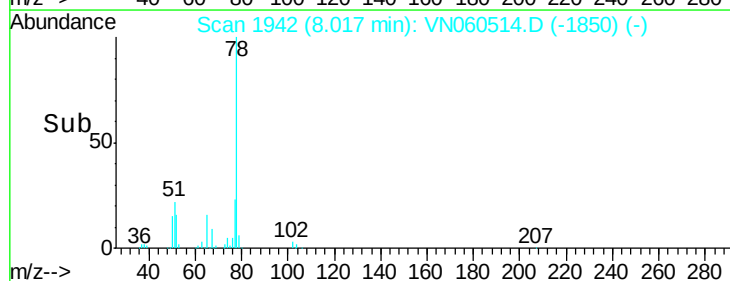
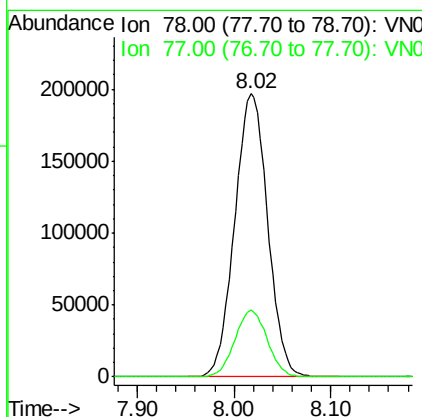
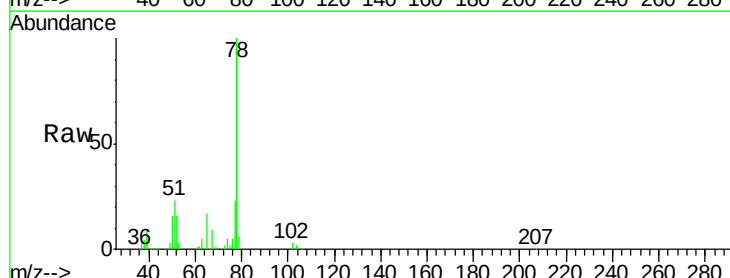
Manual Integrations
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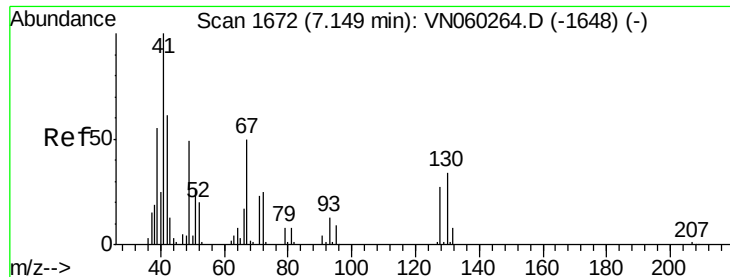
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#40
Benzene
Concen: 49.104 ug/l
RT: 8.02 min Scan# 1942
Delta R.T. -0.00 min
Lab File: VN060514.D
Acq: 16 Mar 2020 11:15

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2





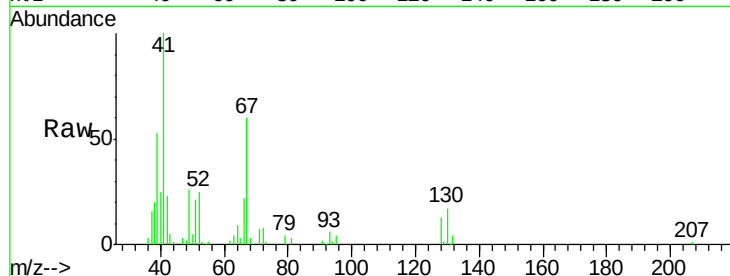
#41
Methacrylonitrile
Concen: 50.799 ug/l m
RT: 7.14 min Scan# 1668
Delta R.T. -0.01 min
Lab File: VN060514.D
Acq: 16 Mar 2020 11:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

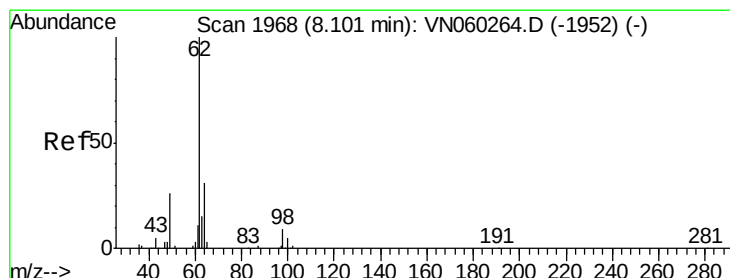
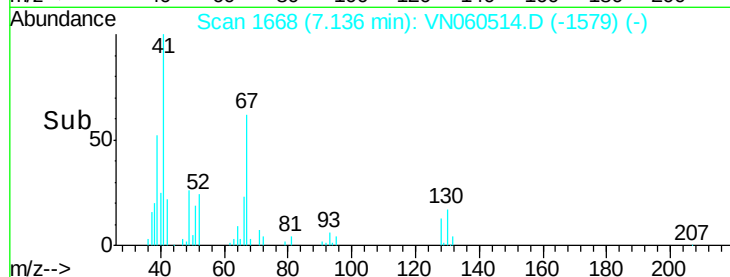
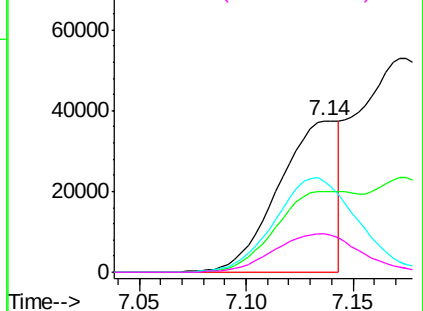
Tot Ion	41	Resp:	72513
Ion Ratio	Lower	Upper	
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

Manual Integrations
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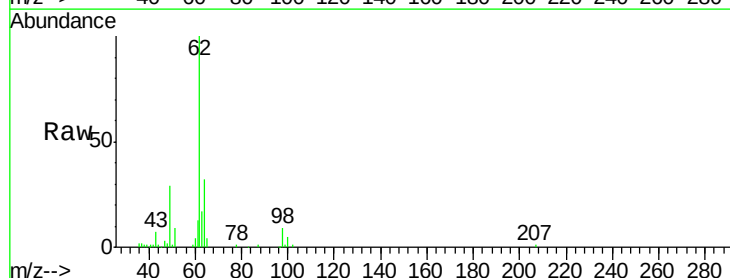


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 67.00 (66.70 to 67.70): VN0
Ion 52.00 (51.70 to 52.70): VN0

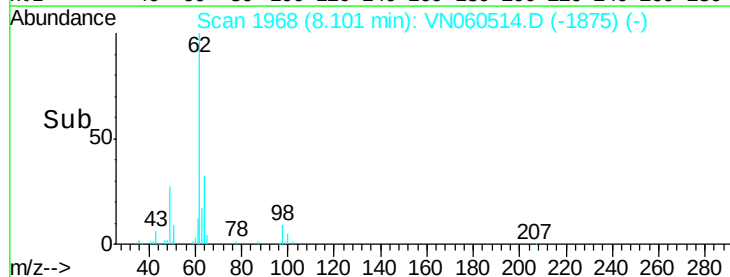
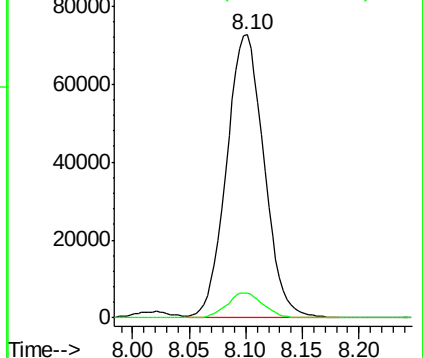


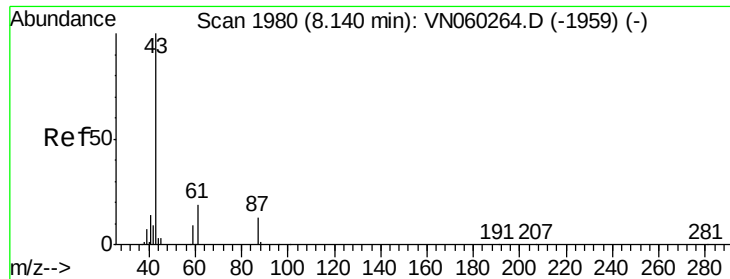
#42
1,2-Dichloroethane
Concen: 48.856 ug/l
RT: 8.10 min Scan# 1968
Delta R.T. 0.00 min
Lab File: VN060514.D
Acq: 16 Mar 2020 11:15

Tgt Ion	62	Resp:	167533
Ion Ratio	Lower	Upper	
62	100		
98	8.6	0.0	17.0



Abundance Ion 61.90 (61.60 to 62.60): VN0
Ion 97.90 (97.60 to 98.60): VN0





#43

Isopropyl Acetate

Concen: 52.925 ug/l

RT: 8.14 min Scan# 1979

Delta R.T. -0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Instrument :

MSVOA_N

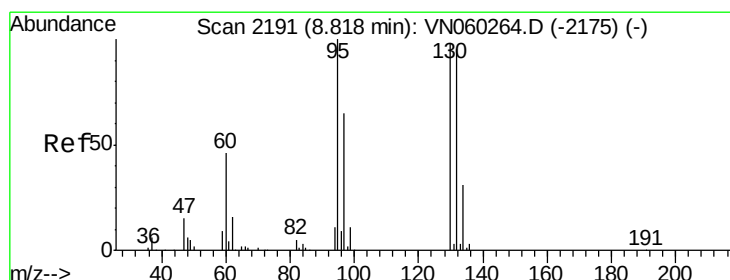
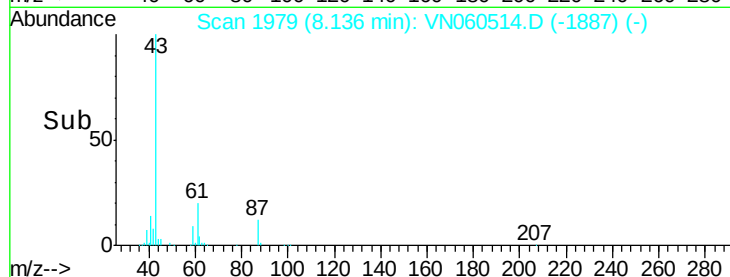
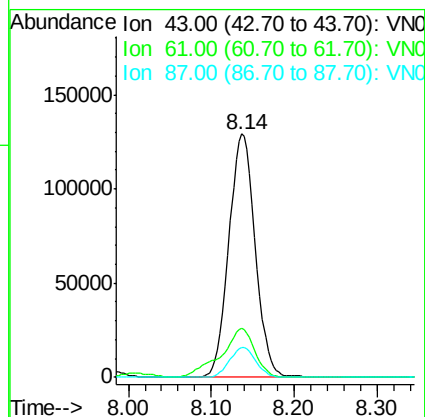
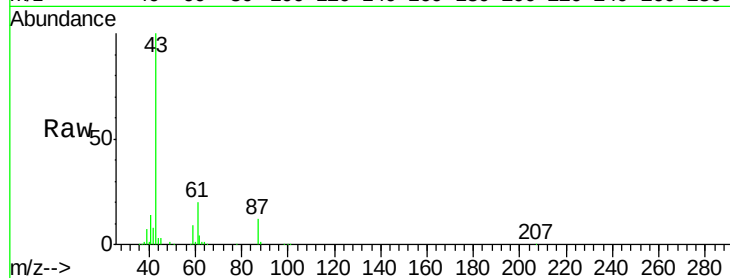
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	286434
Ion	Ratio	Lower	Upper
43	100		
61	25.9	20.9	31.3
87	12.2	10.6	16.0

Manual Integrations
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MMDadoda
3/17/2020 11:48:10 AM



#44

Trichloroethene

Concen: 46.016 ug/l

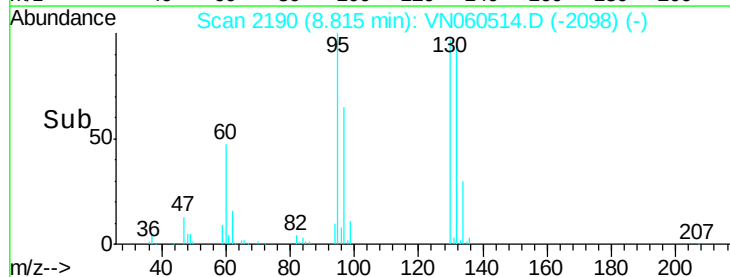
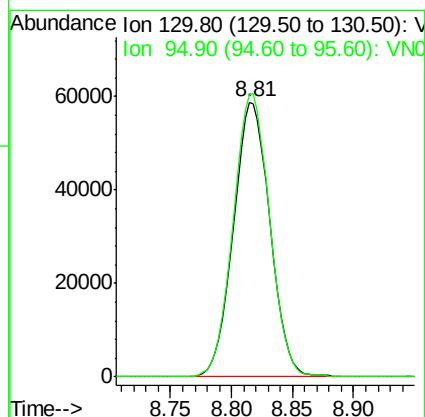
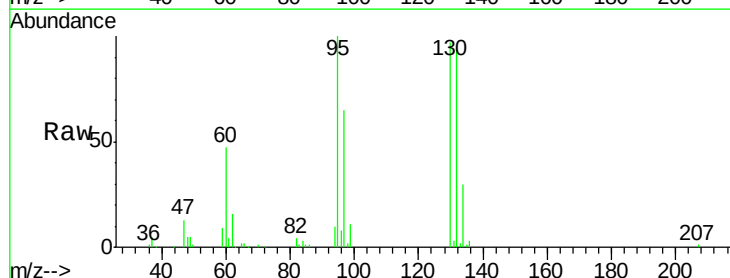
RT: 8.81 min Scan# 2190

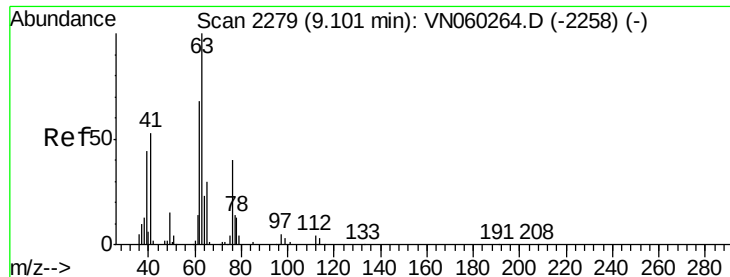
Delta R.T. -0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Tgt Ion:	130	Resp:	121785
Ion	Ratio	Lower	Upper
130	100		
95	102.8	0.0	203.4





#45

1,2-Dichloropropane

Concen: 53.509 ug/l

RT: 9.10 min Scan# 2278

Delta R.T. -0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 132943

Ion Ratio Lower Upper

63 100

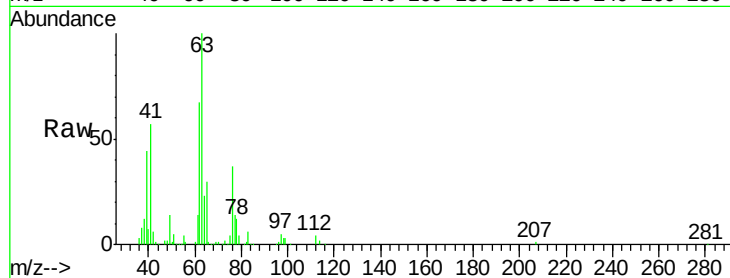
65 30.3 24.4 36.6

Manual Integrations

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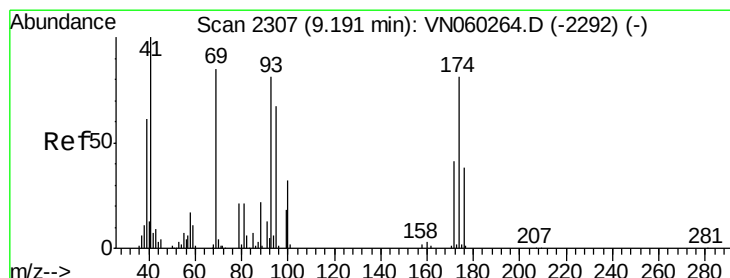
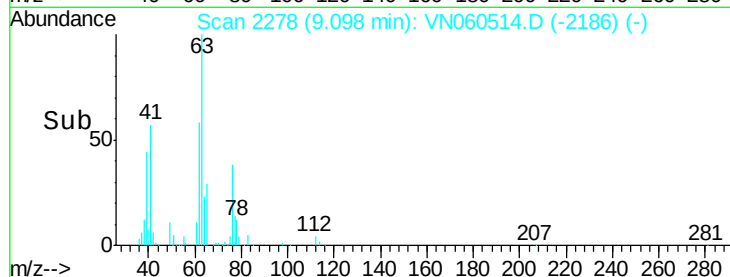
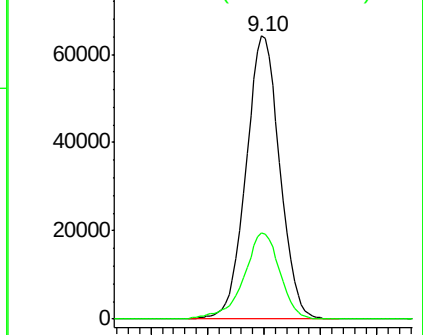
MMDadoda

3/17/2020 11:48:10 AM



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#46

Dibromomethane

Concen: 49.185 ug/l

RT: 9.19 min Scan# 2307

Delta R.T. 0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

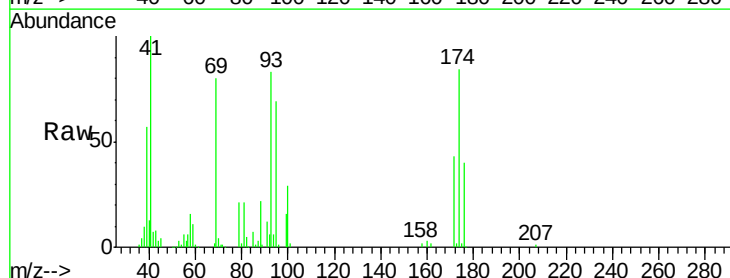
Tgt Ion: 93 Resp: 79292

Ion Ratio Lower Upper

93 100

95 82.4 65.9 98.9

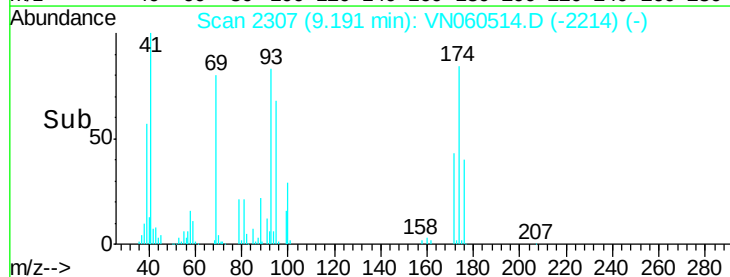
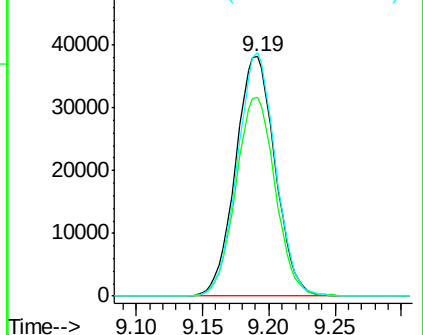
174 97.7 79.6 119.4

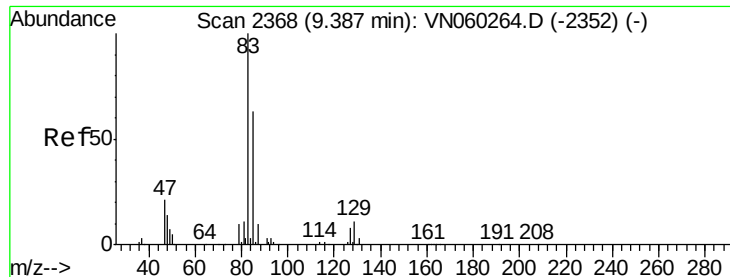


Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 51.920 ug/l

RT: 9.38 min Scan# 2367

Delta R.T. -0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Instrument :

MSVOA_N

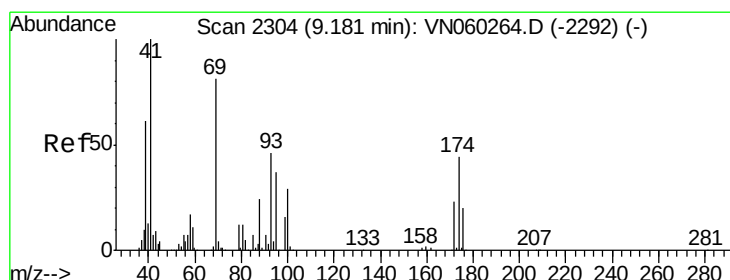
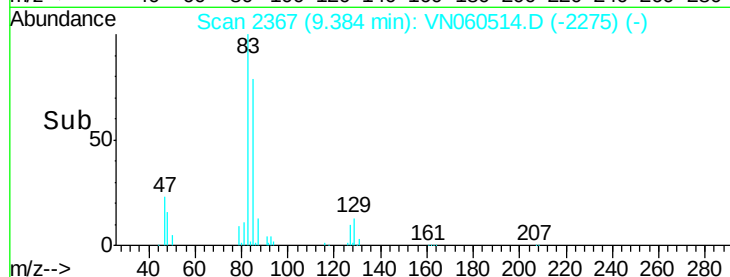
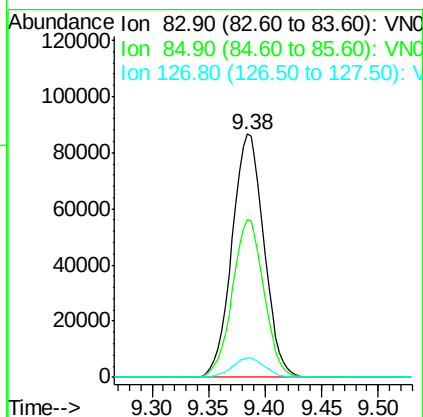
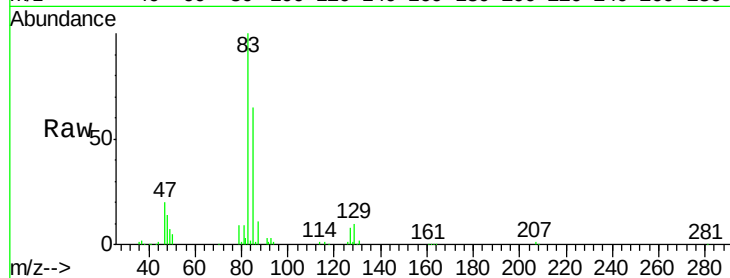
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	170235
Ion	Ratio	Lower	Upper
83	100		
85	64.7	50.7	76.1
127	8.1	6.8	10.2

Manual Integrations
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MMDadoda
3/17/2020 11:48:10 AM



#48

Methyl methacrylate

Concen: 51.208 ug/l

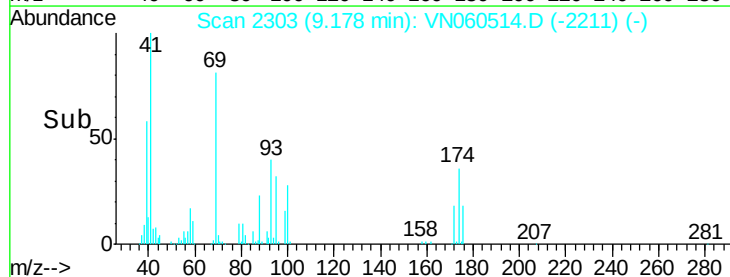
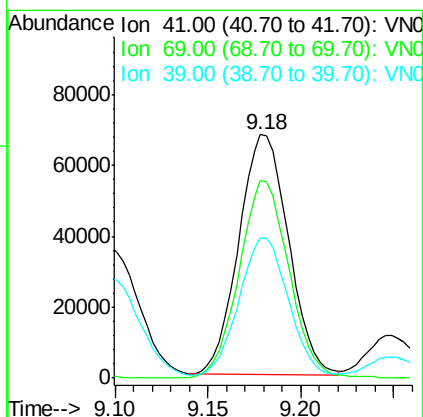
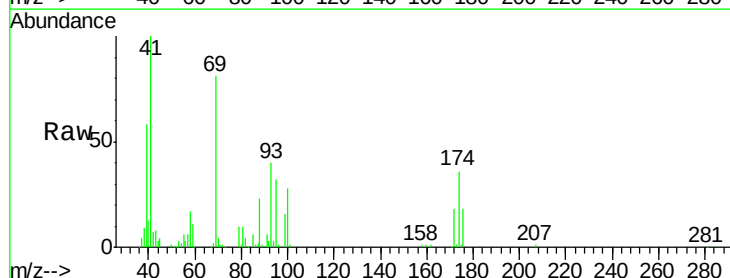
RT: 9.18 min Scan# 2303

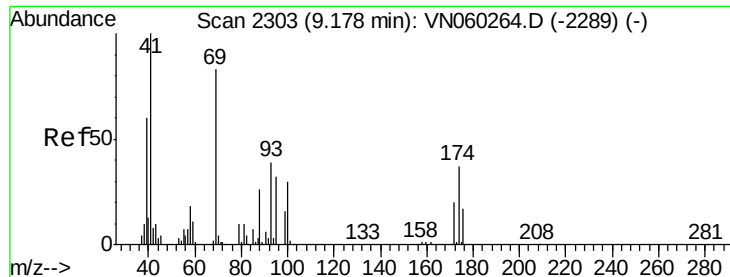
Delta R.T. -0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Tgt Ion:	41	Resp:	126382
Ion	Ratio	Lower	Upper
41	100		
69	82.2	66.7	100.1
39	59.1	50.1	75.1





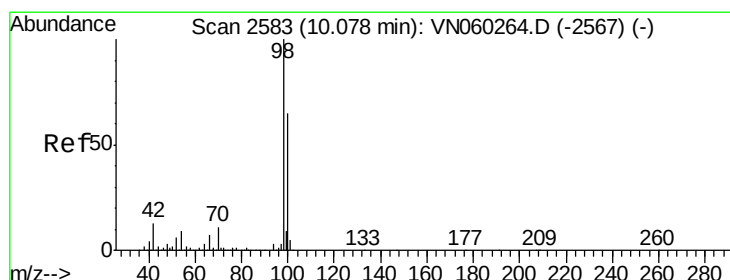
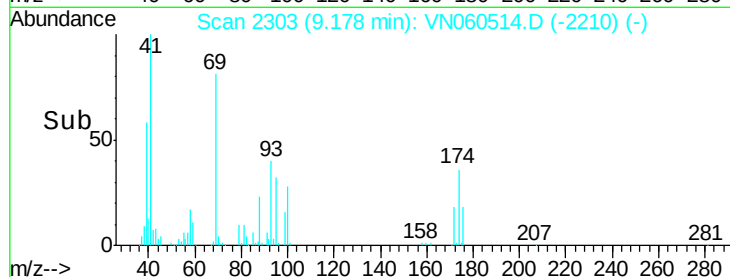
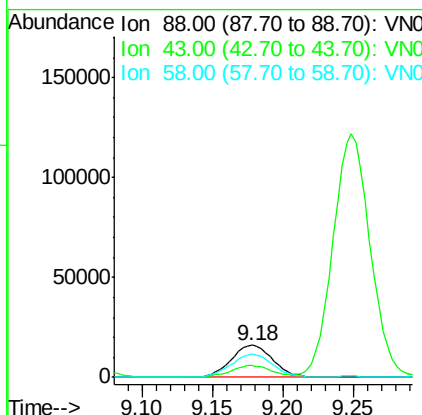
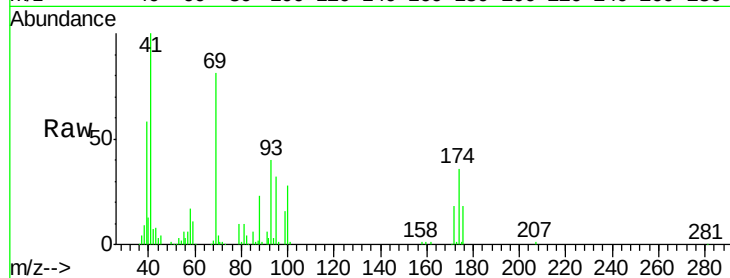
#49
1,4-Dioxane
Concen: 957.596 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. 0.00 min
Lab File: VN060514.D
Acq: 16 Mar 2020 11:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	88	Resp	33235
Ion	Ratio	Lower	Upper
88	100		
43	36.7	30.4	45.6
58	72.5	57.0	85.6

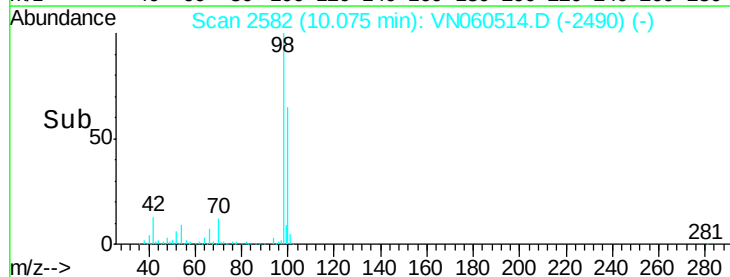
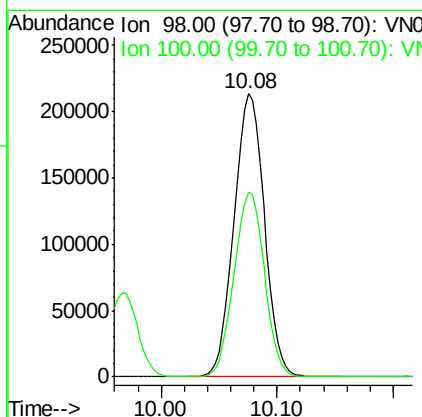
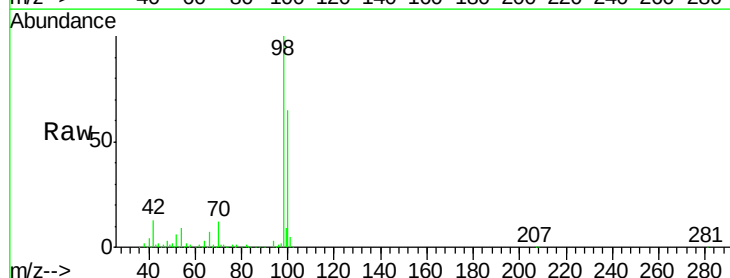
Manual Integrations
APPROVED

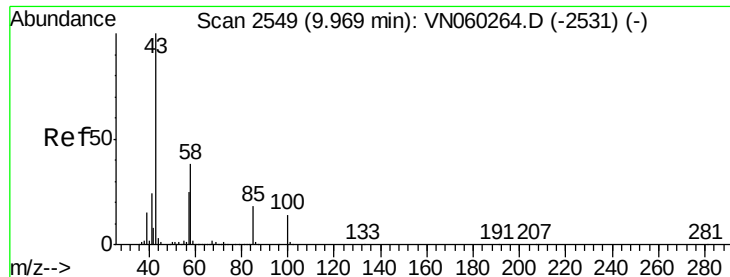
MMDadoda
3/17/2020 11:48:10 AM



#50
Toluene-d8
Concen: 48.113 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060514.D
Acq: 16 Mar 2020 11:15

Tgt Ion	98	Resp	387204
Ion	Ratio	Lower	Upper
98	100		
100	65.6	52.2	78.2





#51

4-Methyl-2-Pentanone

Concen: 270.844 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 43 Resp: 831103

Ion Ratio Lower Upper

43 100

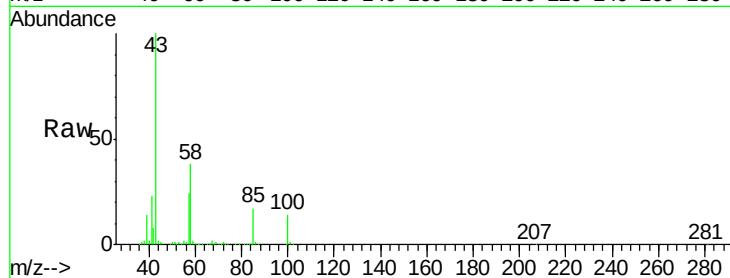
58 38.5 30.9 46.3

Manual Integrations

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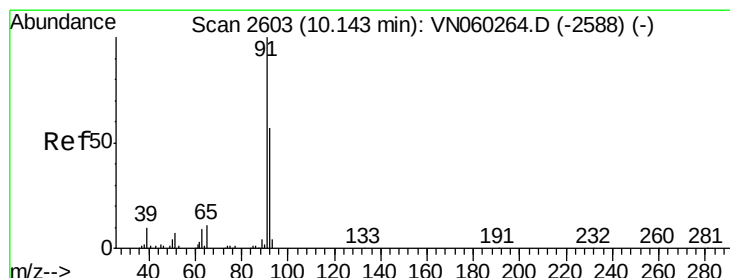
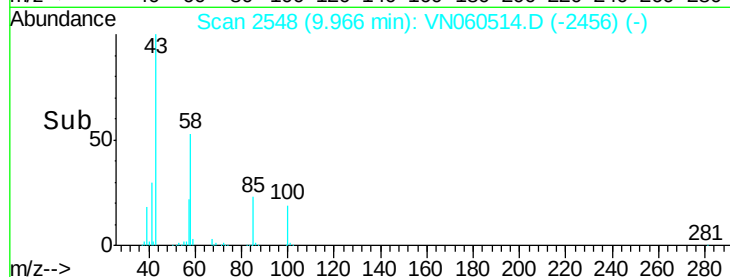
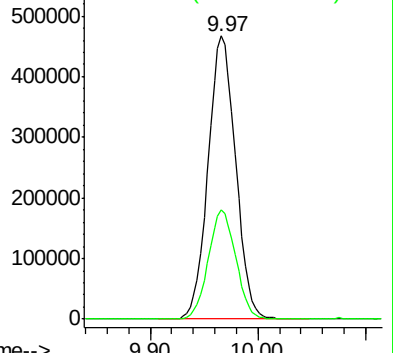
MMDadoda

3/17/2020 11:48:10 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 48.275 ug/l

RT: 10.14 min Scan# 2602

Delta R.T. -0.00 min

Lab File: VN060514.D

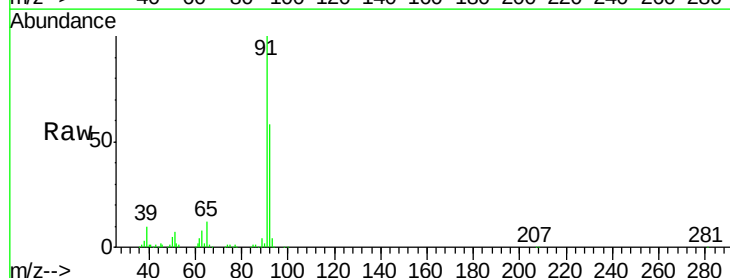
Acq: 16 Mar 2020 11:15

Tgt Ion: 92 Resp: 288164

Ion Ratio Lower Upper

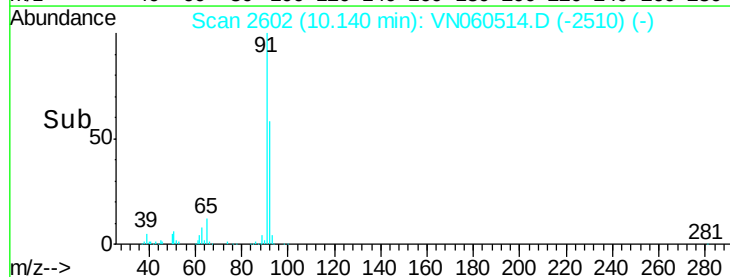
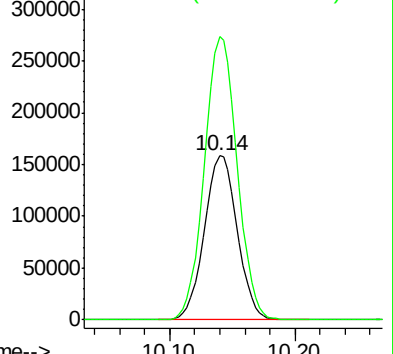
92 100

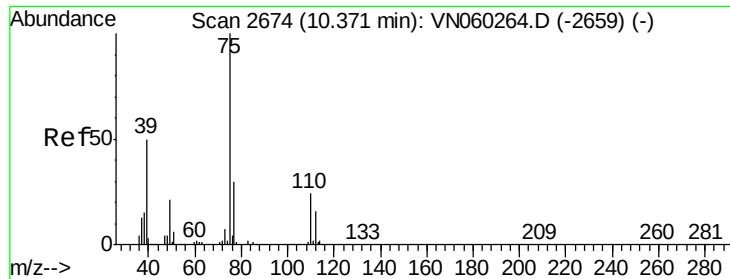
91 172.0 138.1 207.1



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





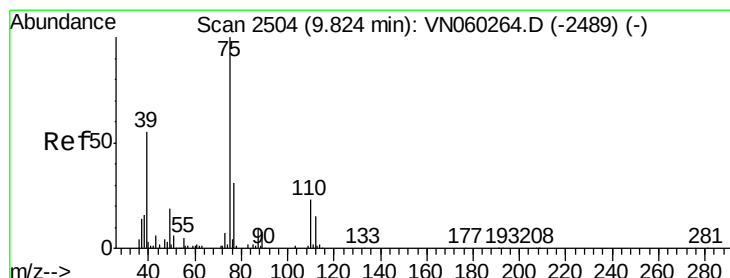
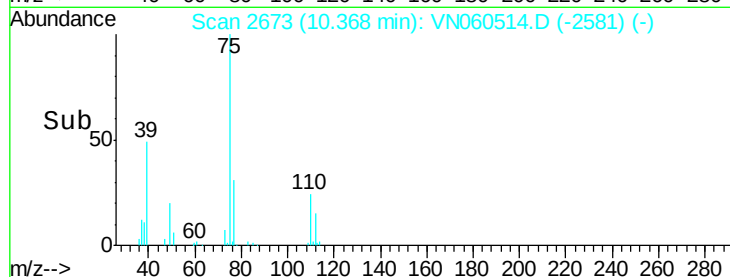
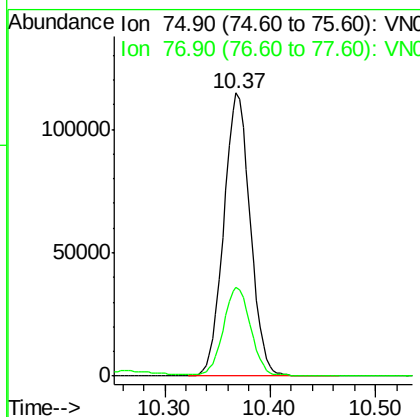
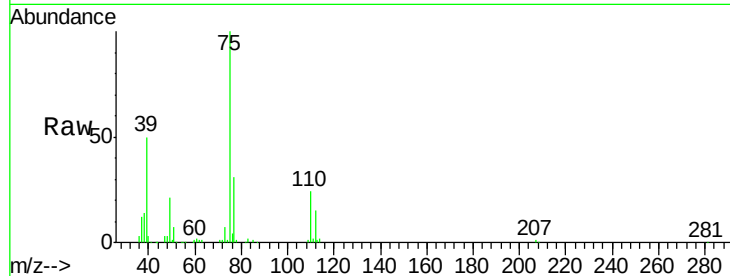
#53
t-1,3-Dichloropropene
Concen: 49.621 ug/l
RT: 10.37 min Scan# 2673
Delta R.T. -0.00 min
Lab File: VN060514.D
Acq: 16 Mar 2020 11:15

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.9	24.8	37.2

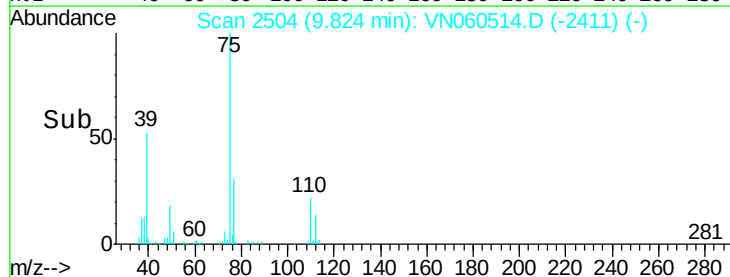
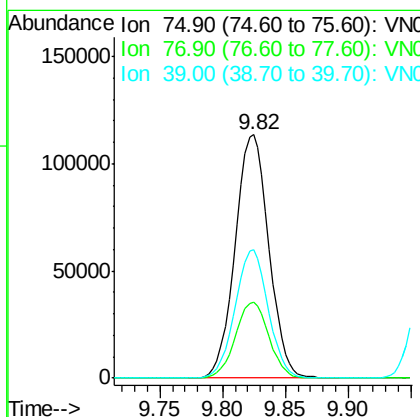
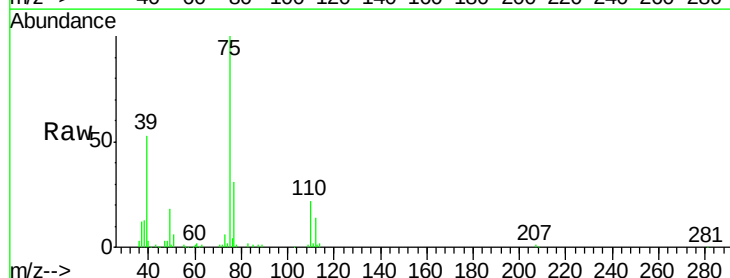
Manual Integrations
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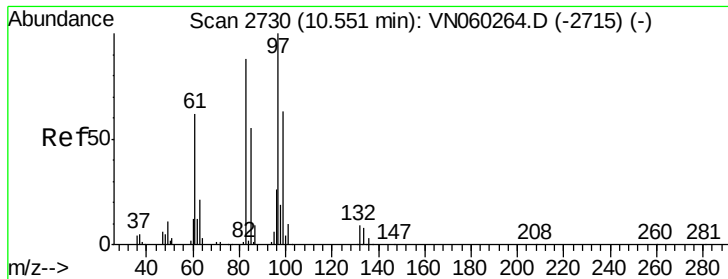
MMDadoda
3/17/2020 11:48:10 AM



#54
cis-1,3-Dichloropropene
Concen: 50.871 ug/l
RT: 9.82 min Scan# 2504
Delta R.T. 0.00 min
Lab File: VN060514.D
Acq: 16 Mar 2020 11:15

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.2	24.8	37.2
39	52.6	43.8	65.8





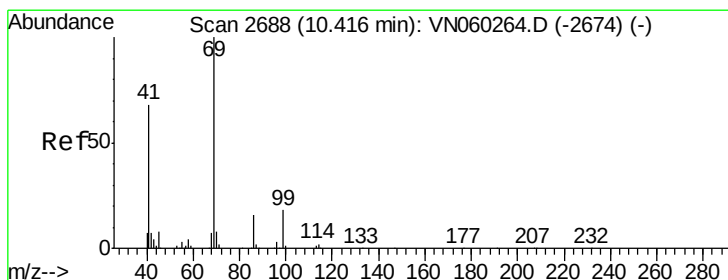
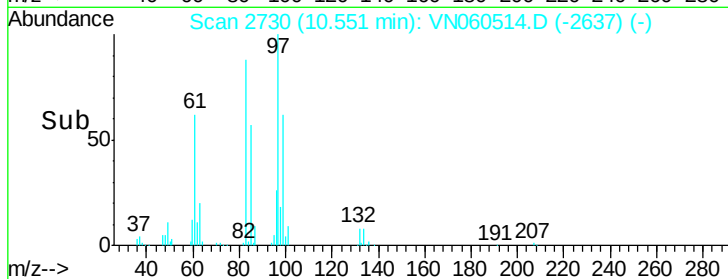
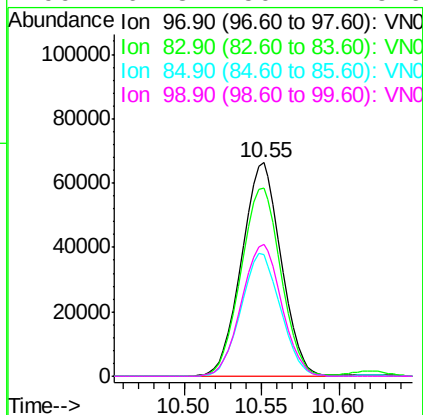
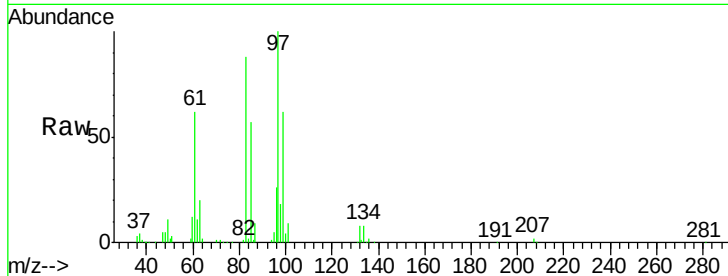
#55
 1,1,2-Trichloroethane
 Concen: 49.253 ug/l
 RT: 10.55 min Scan# 2730
 Delta R.T. 0.00 min
 Lab File: VN060514.D
 Acq: 16 Mar 2020 11:15

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
97	100		
83	88.1	70.0	105.0
85	56.8	44.0	66.0
99	61.8	50.4	75.6

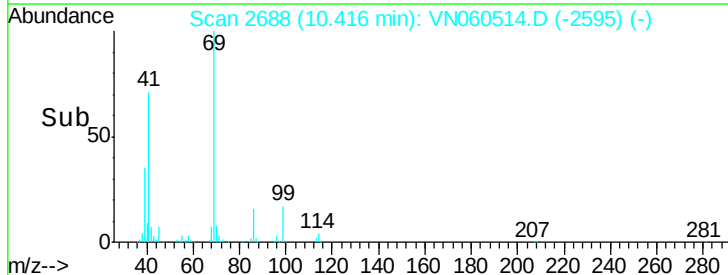
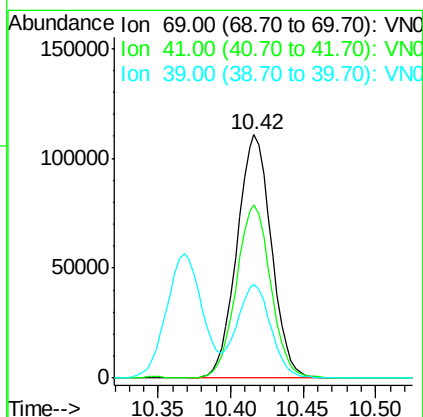
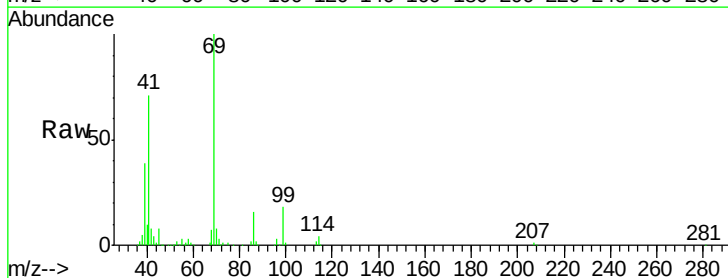
Manual Integrations
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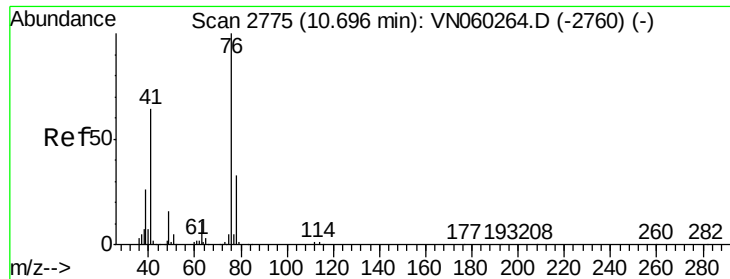
MMDadoda
 3/17/2020 11:48:10 AM



#56
 Ethyl methacrylate
 Concen: 53.018 ug/l
 RT: 10.42 min Scan# 2688
 Delta R.T. 0.00 min
 Lab File: VN060514.D
 Acq: 16 Mar 2020 11:15

Tgt Ion	Ratio	Lower	Upper
69	100		
41	70.7	54.1	81.1
39	37.8	32.5	48.7





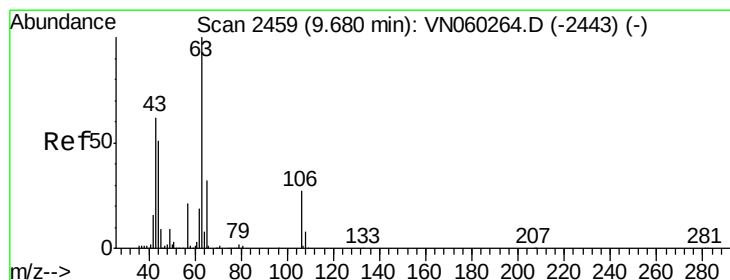
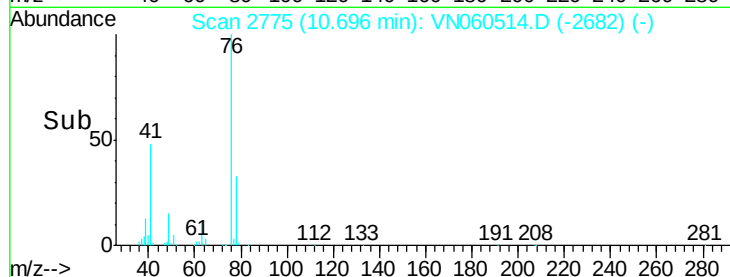
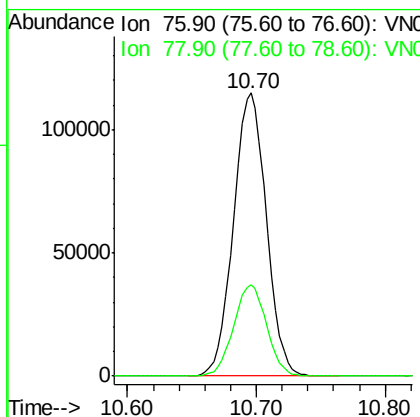
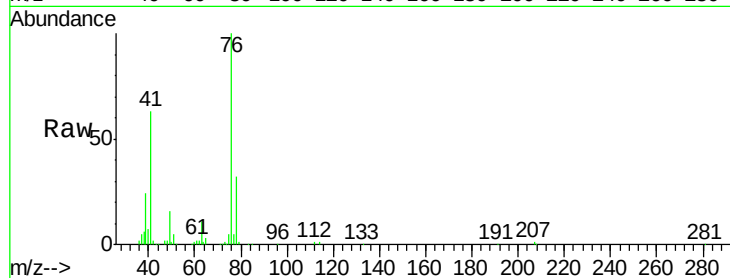
#57
 1,3-Dichloropropane
 Concen: 51.944 ug/l
 RT: 10.70 min Scan# 2775
 Delta R.T. 0.00 min
 Lab File: VN060514.D
 Acq: 16 Mar 2020 11:15

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.3	26.2	39.2

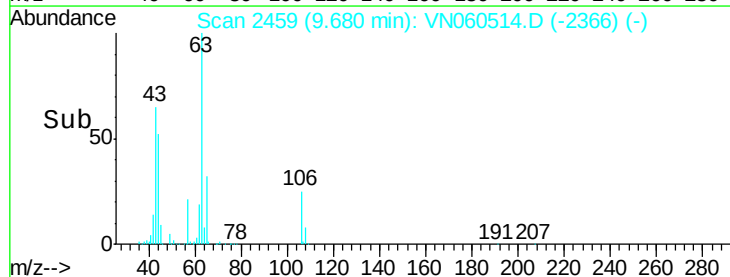
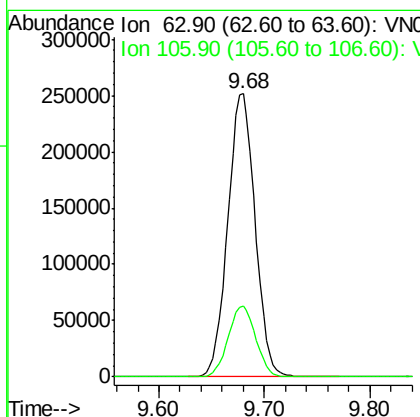
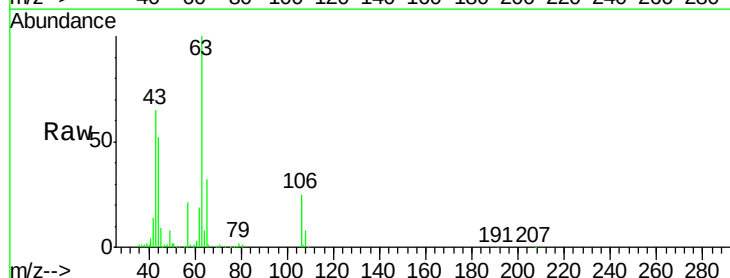
Manual Integrations
 APPROVED

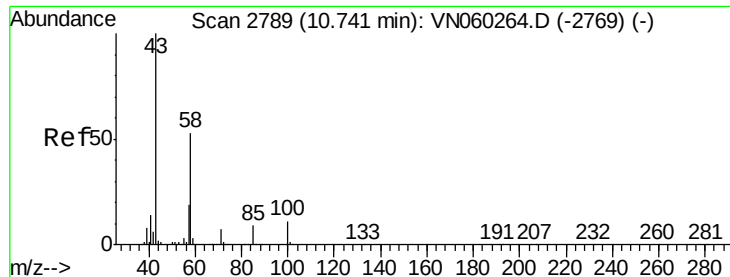
MMDadoda
 3/17/2020 11:48:10 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 249.300 ug/l
 RT: 9.68 min Scan# 2459
 Delta R.T. -0.00 min
 Lab File: VN060514.D
 Acq: 16 Mar 2020 11:15

Tgt Ion	Ratio	Lower	Upper
63	100		
106	25.2	21.1	31.7





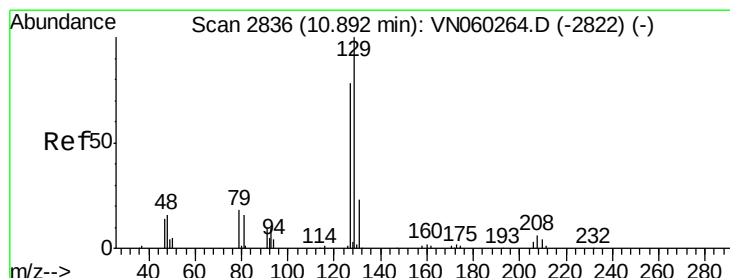
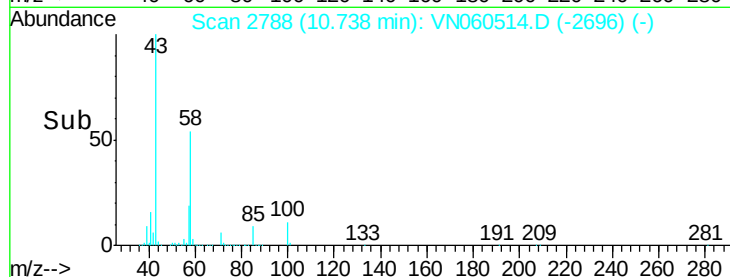
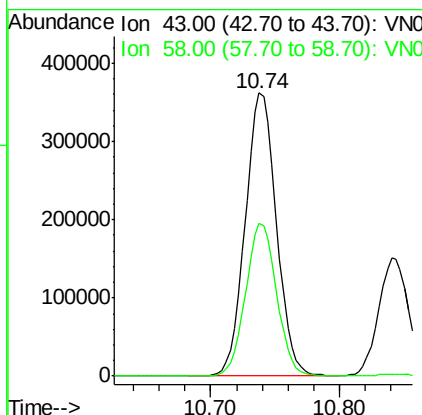
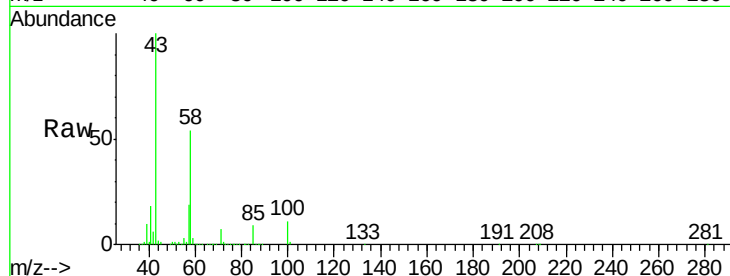
#59
2-Hexanone
Concen: 270.659 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. -0.00 min
Lab File: VN060514.D
Acq: 16 Mar 2020 11:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 609800
Ion Ratio Lower Upper
43 100
58 53.7 26.5 79.5

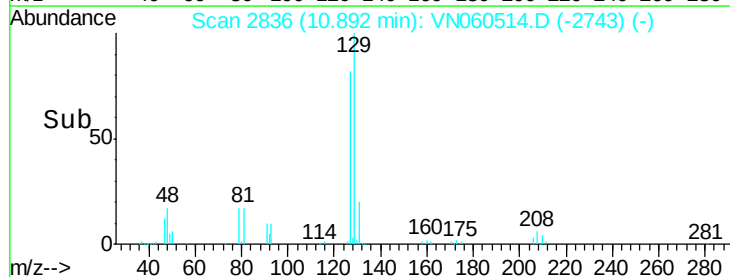
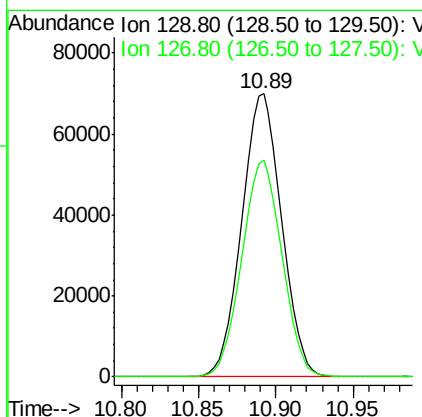
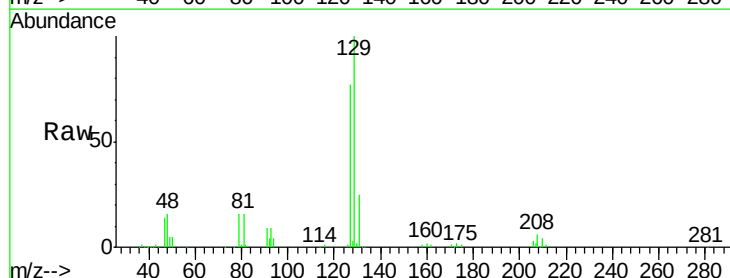
Manual Integrations
APPROVED

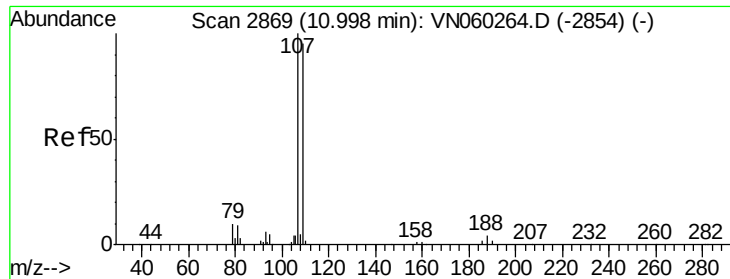
MMDadoda
3/17/2020 11:48:10 AM



#60
Dibromochloromethane
Concen: 51.396 ug/l
RT: 10.89 min Scan# 2836
Delta R.T. 0.00 min
Lab File: VN060514.D
Acq: 16 Mar 2020 11:15

Tgt Ion: 129 Resp: 125469
Ion Ratio Lower Upper
129 100
127 77.0 38.9 116.7





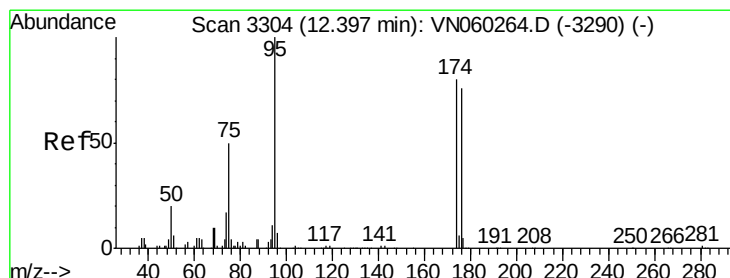
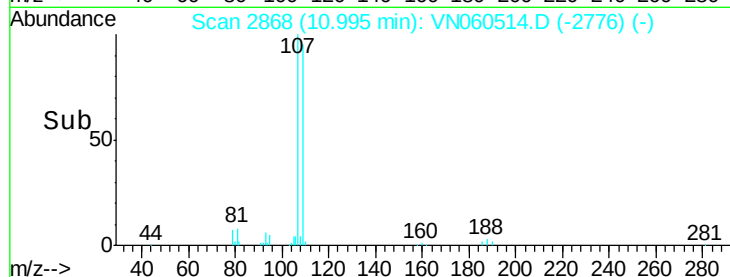
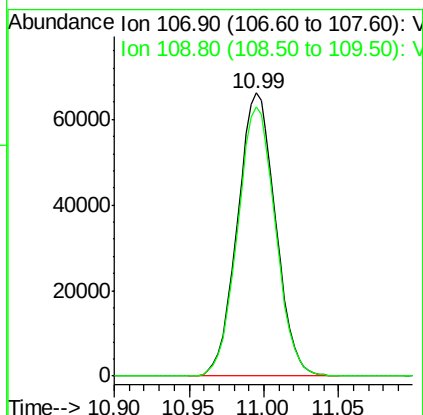
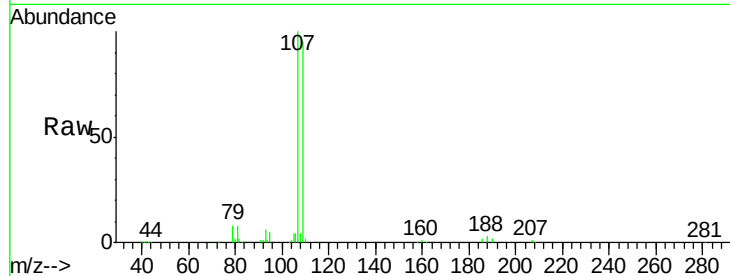
#61
 1,2-Dibromoethane
 Concen: 49.954 ug/l
 RT: 10.99 min Scan# 2868
 Delta R.T. -0.00 min
 Lab File: VN060514.D
 Acq: 16 Mar 2020 11:15

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.0	76.8	115.2

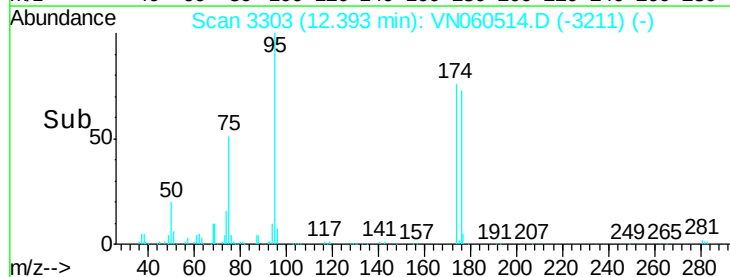
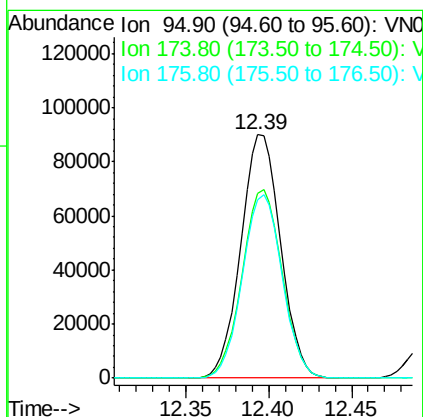
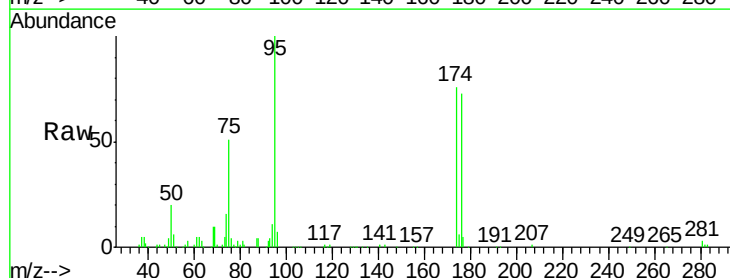
Manual Integrations
 APPROVED

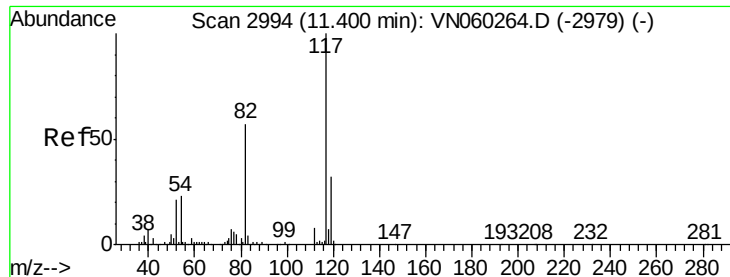
MMDadoda
 3/17/2020 11:48:10 AM



#62
 4-Bromofluorobenzene
 Concen: 49.166 ug/l
 RT: 12.39 min Scan# 3303
 Delta R.T. -0.00 min
 Lab File: VN060514.D
 Acq: 16 Mar 2020 11:15

Tgt Ion	Ratio	Lower	Upper
95	100		
174	77.9	0.0	159.2
176	75.5	0.0	153.8





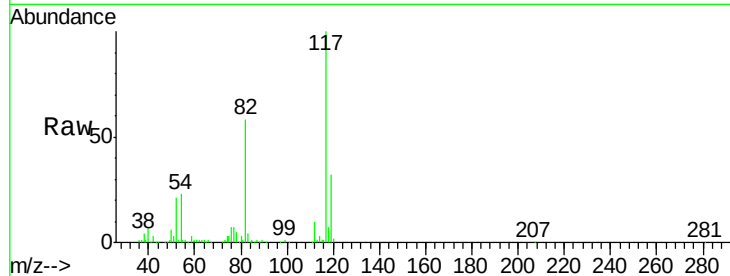
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060514.D
Acq: 16 Mar 2020 11:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.6	45.8	68.6
119	32.2	25.8	38.8

Manual Integrations
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3/17/2020 11:48:10 AM

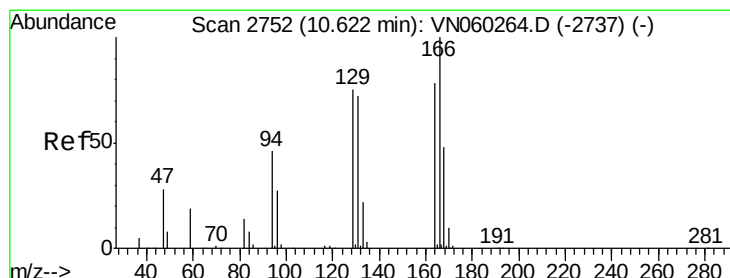
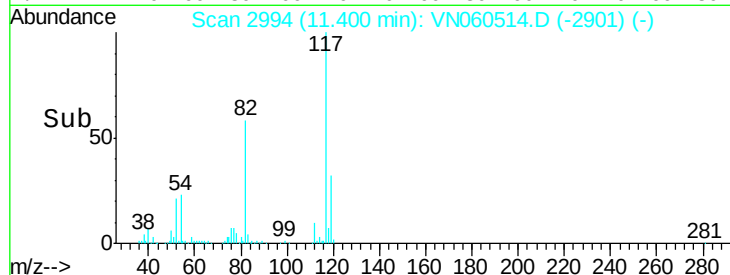
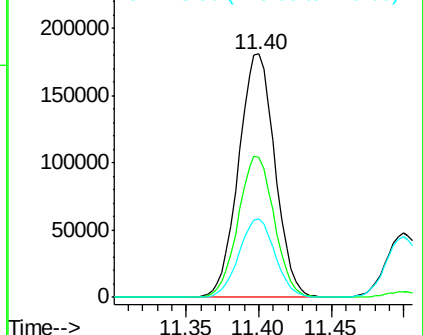


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 47.680 ug/l
RT: 10.62 min Scan# 2751
Delta R.T. -0.00 min
Lab File: VN060514.D
Acq: 16 Mar 2020 11:15

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.0	102.0	153.0
129	97.3	76.4	114.6
131	92.0	73.6	110.4

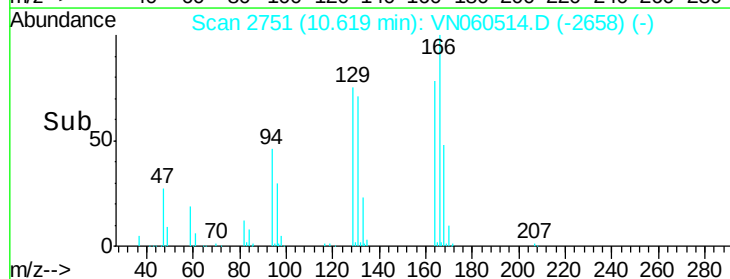
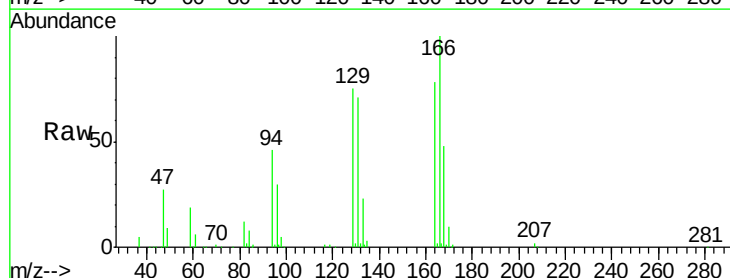
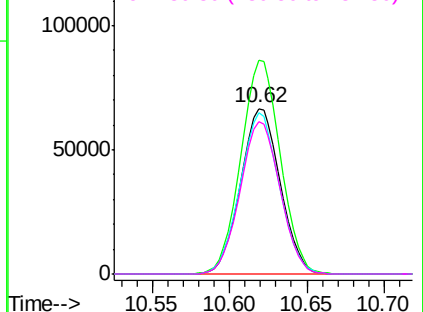
Abundance

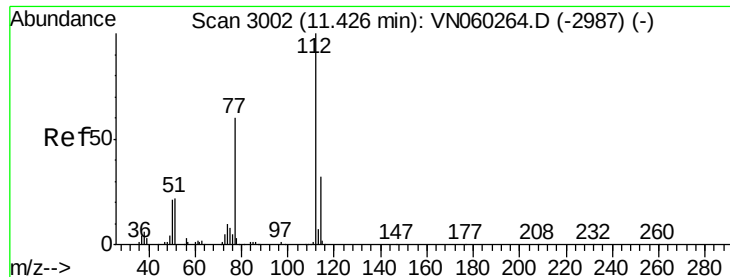
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





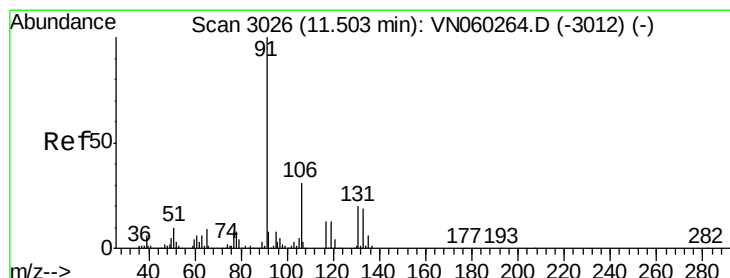
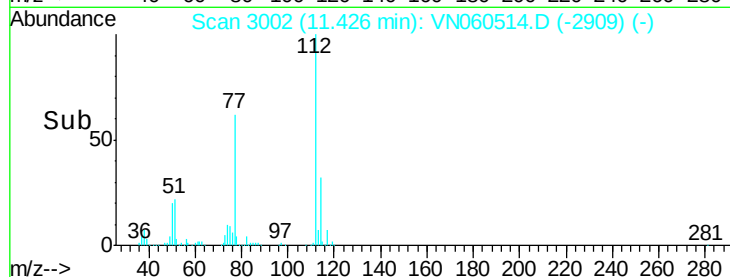
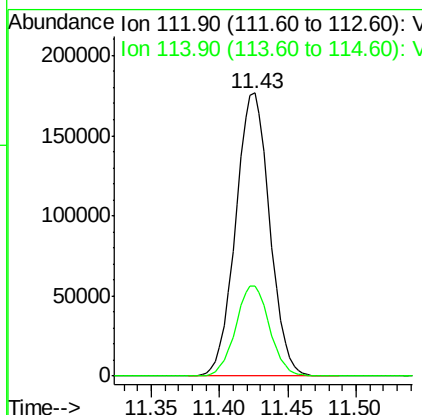
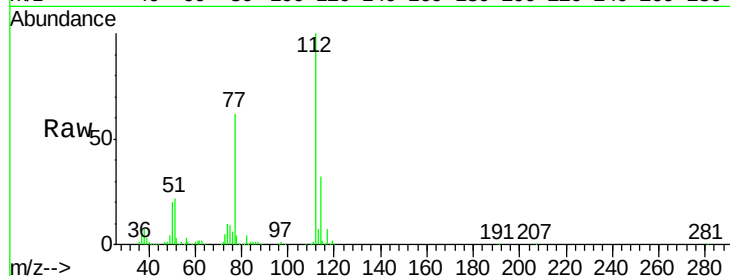
#65
Chlorobenzene
Concen: 48.040 ug/l
RT: 11.43 min Scan# 3002
Delta R.T. 0.00 min
Lab File: VN060514.D
Acq: 16 Mar 2020 11:15

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion:112 Resp: 305586
Ion Ratio Lower Upper
112 100
114 31.9 25.4 38.0

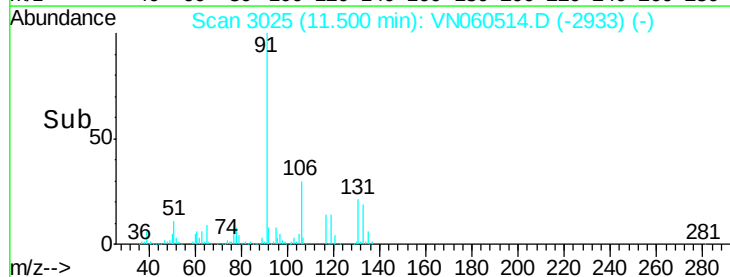
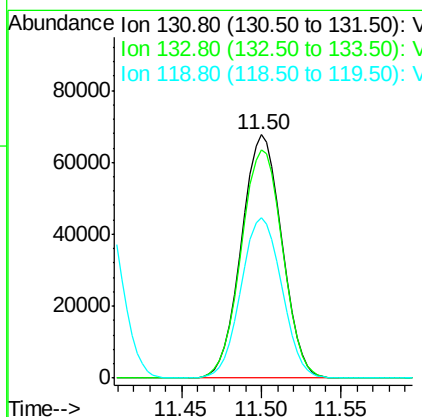
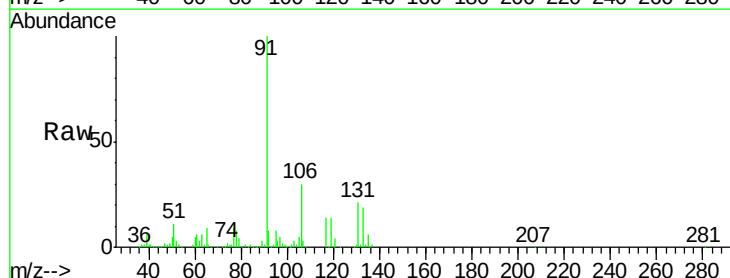
Manual Integrations
APPROVED

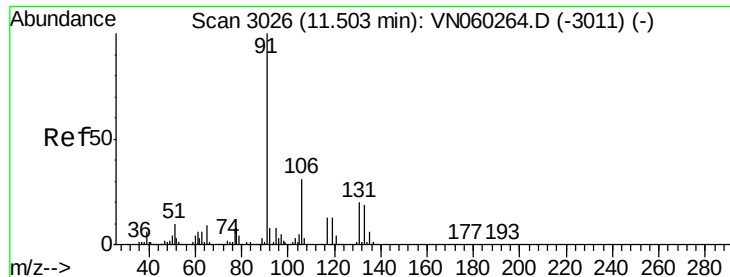
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#66
1,1,1,2-Tetrachloroethane
Concen: 49.722 ug/l
RT: 11.50 min Scan# 3025
Delta R.T. -0.00 min
Lab File: VN060514.D
Acq: 16 Mar 2020 11:15

Tgt Ion:131 Resp: 116946
Ion Ratio Lower Upper
131 100
133 96.4 47.7 143.1
119 66.7 33.2 99.6





#67

Ethyl Benzene

Concen: 48.874 ug/l

RT: 11.50 min Scan# 3026

Delta R.T. 0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 566159

Ion Ratio Lower Upper

91 100

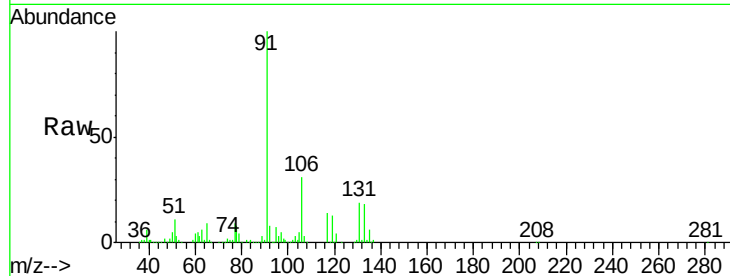
106 30.8 24.7 37.1

Manual Integrations

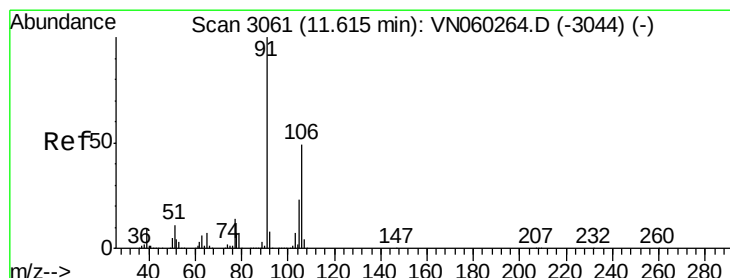
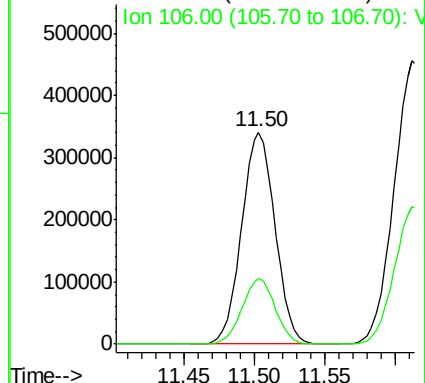
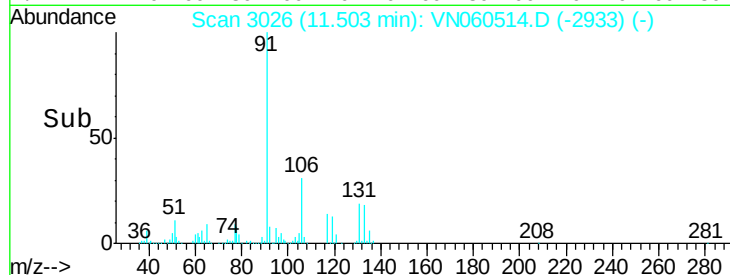
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Abundance Ion 91.00 (90.70 to 91.70): VN060514.D (-2933) (-)



#68

m/p-Xylenes

Concen: 95.798 ug/l

RT: 11.61 min Scan# 3060

Delta R.T. -0.00 min

Lab File: VN060514.D

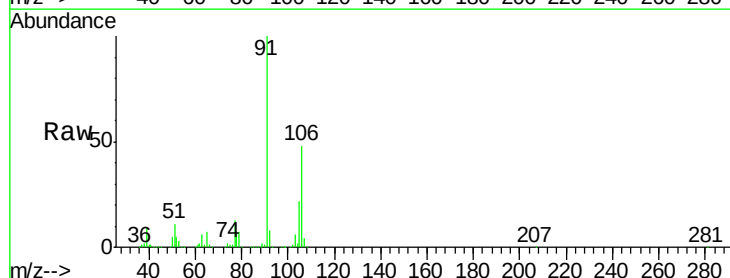
Acq: 16 Mar 2020 11:15

Tgt Ion: 106 Resp: 418693

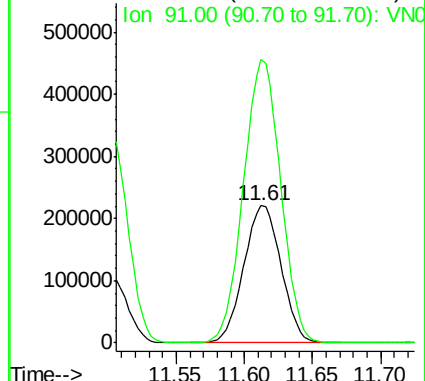
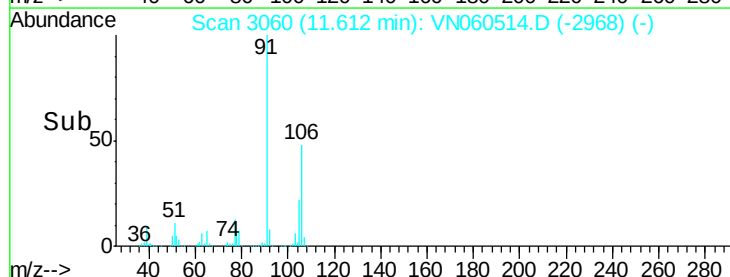
Ion Ratio Lower Upper

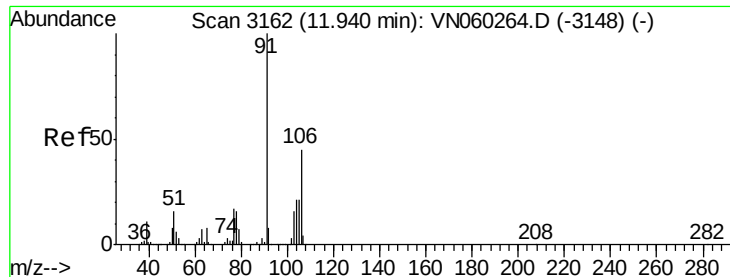
106 100

91 206.0 164.5 246.7



Abundance Ion 106.00 (105.70 to 106.70): VN060514.D (-2968) (-)





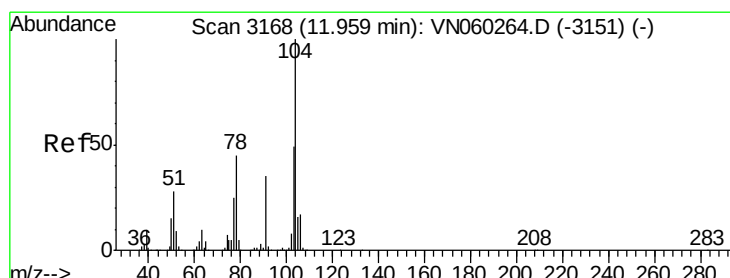
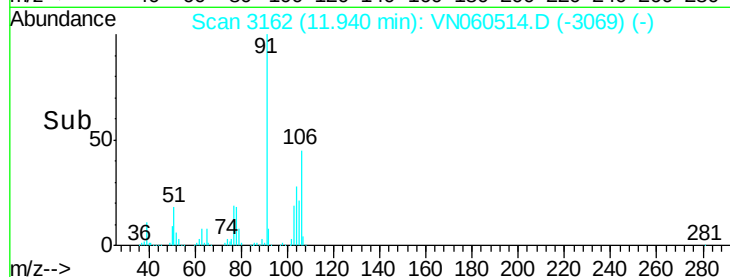
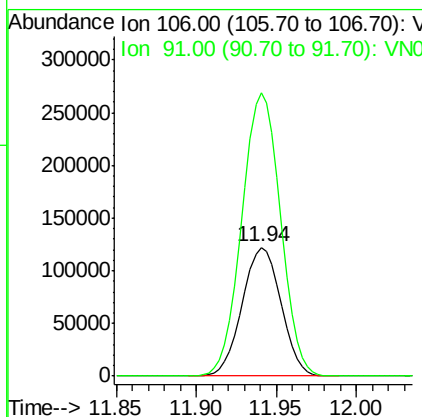
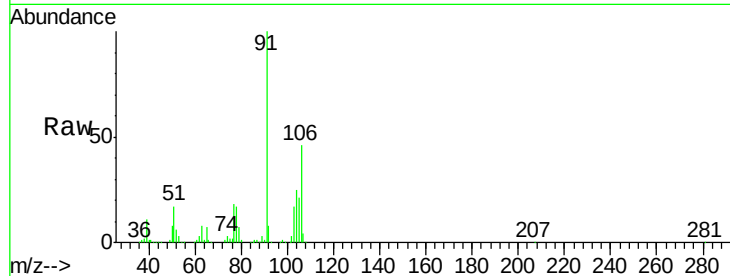
#69
o-Xylene
Concen: 48.735 ug/l
RT: 11.94 min Scan# 3162
Delta R.T. 0.00 min
Lab File: VN060514.D
Acq: 16 Mar 2020 11:15

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
106	100		
91	218.3	109.5	328.4

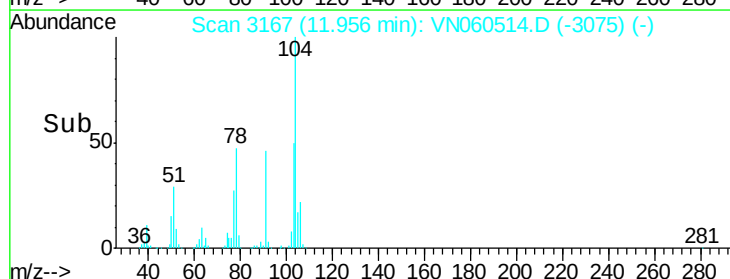
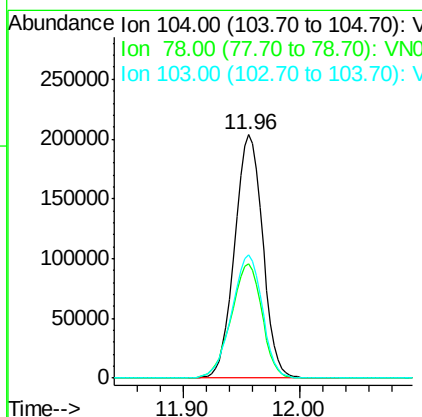
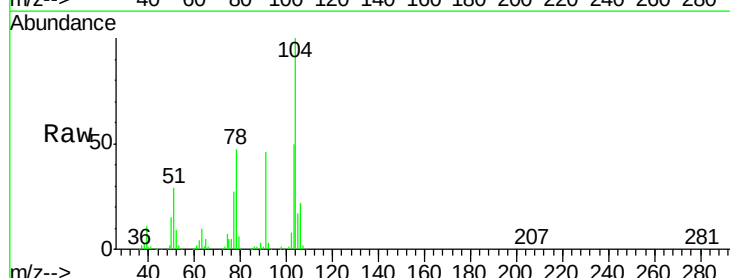
Manual Integrations
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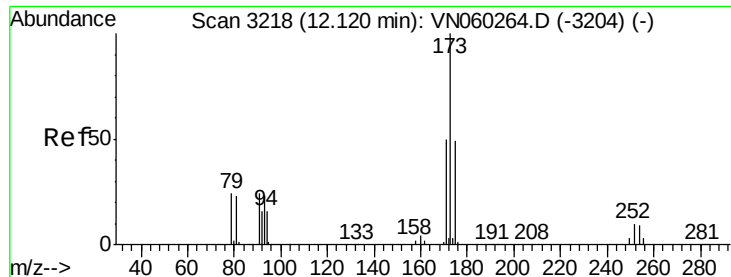
MMDadoda
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#70
Styrene
Concen: 49.699 ug/l
RT: 11.96 min Scan# 3167
Delta R.T. -0.00 min
Lab File: VN060514.D
Acq: 16 Mar 2020 11:15

Tgt Ion	Ratio	Lower	Upper
104	100		
78	51.6	41.2	61.8
103	55.0	43.9	65.9





#71

Bromoform

Concen: 52.851 ug/l

RT: 12.12 min Scan# 3218

Delta R.T. -0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Instrument :

MSVOA_N

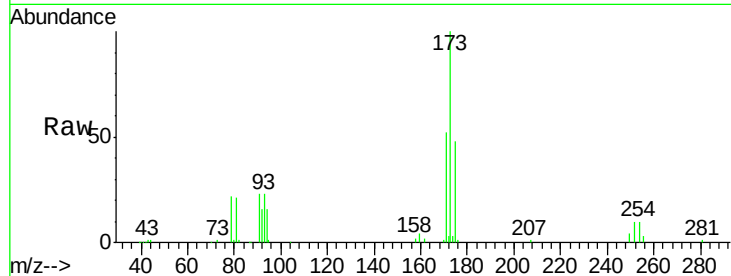
ClientSampleId :

VSTDCCC050

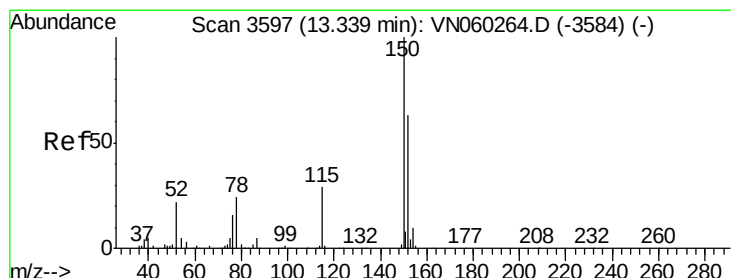
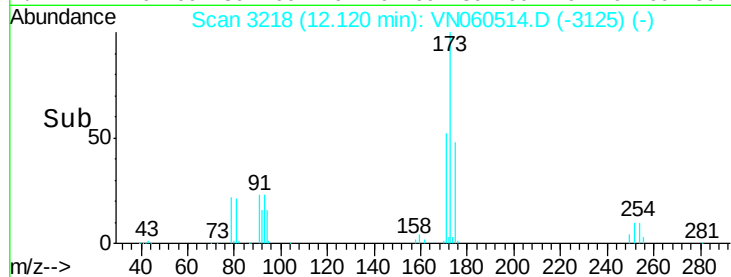
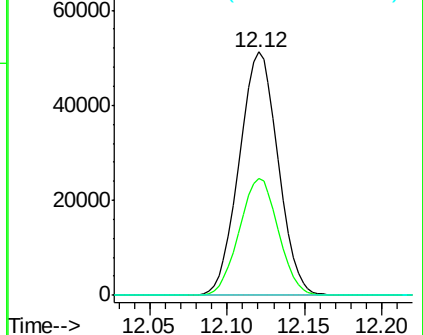
Tot Ion:	173	Resp:	89587
Ion Ratio	Lower	Upper	
173	100		
175	48.2	24.1	72.2
254	0.0	0.0	0.0

Manual Integrations
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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

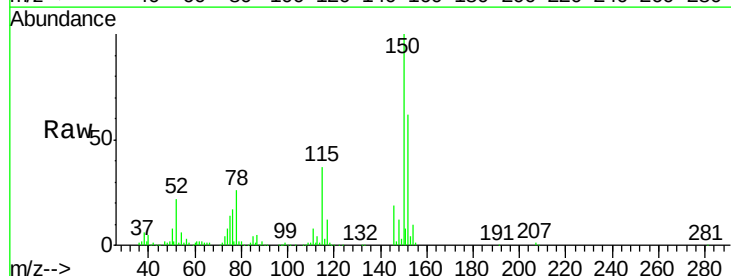
RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

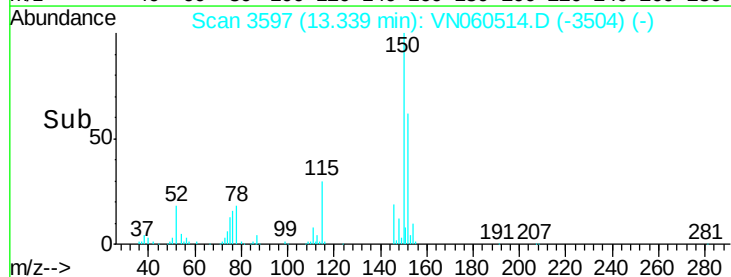
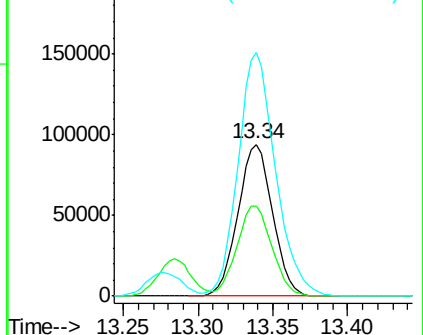
Lab File: VN060514.D

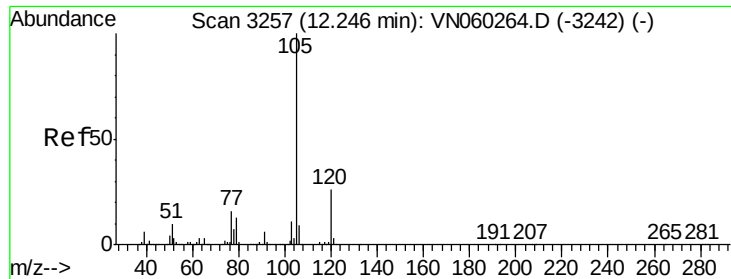
Acq: 16 Mar 2020 11:15

Tgt Ion:	152	Resp:	152026
Ion Ratio	Lower	Upper	
152	100		
115	59.8	30.0	90.0
150	173.1	0.0	349.6



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: 49.256 ug/l

RT: 12.24 min Scan# 3256

Delta R.T. -0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 105 Resp: 555015

Ion Ratio Lower Upper

105 100

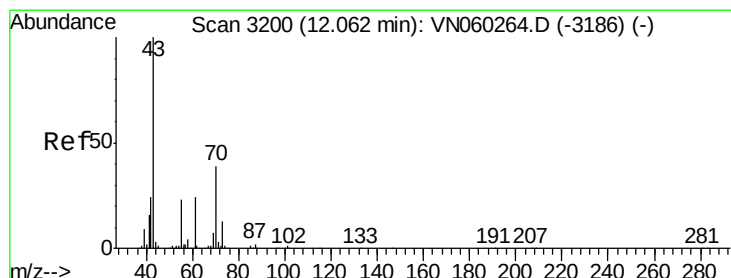
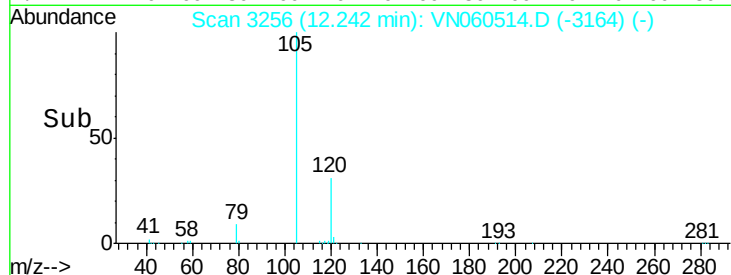
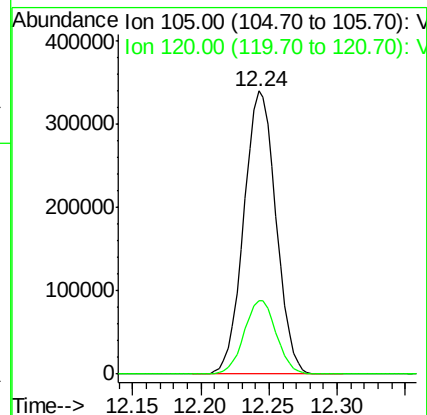
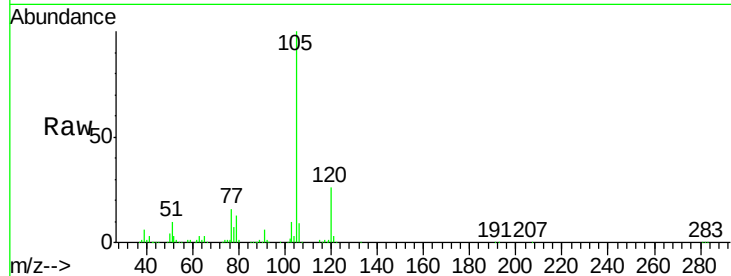
120 26.0 13.0 38.9

Manual Integrations

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#74

N-ethyl acetate

Concen: 51.607 ug/l

RT: 12.06 min Scan# 3200

Delta R.T. 0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Tgt Ion: 43 Resp: 254105

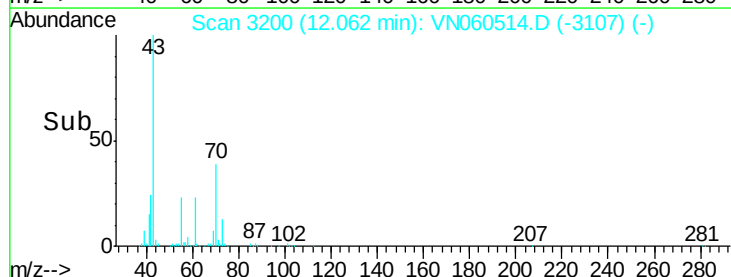
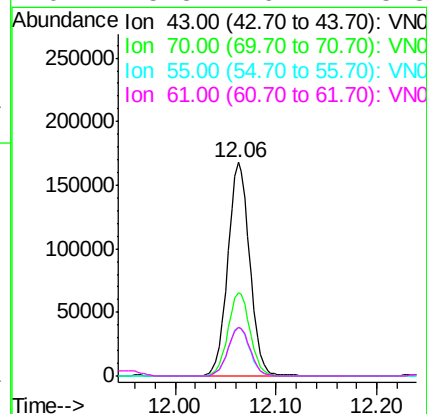
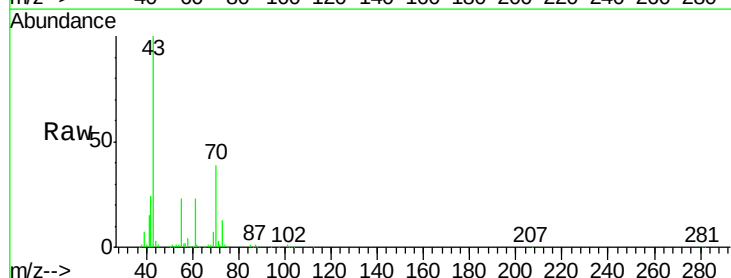
Ion Ratio Lower Upper

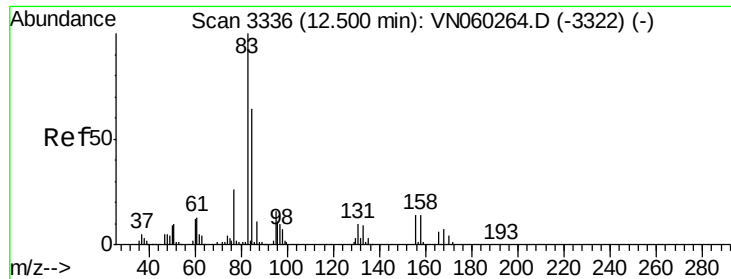
43 100

70 39.4 32.2 48.2

55 22.9 18.2 27.4

61 23.3 19.2 28.8





#75

1,1,2,2-Tetrachloroethane

Concen: 54.016 ug/l

RT: 12.50 min Scan# 3336

Delta R.T. 0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Instrument :

MSVOA_N

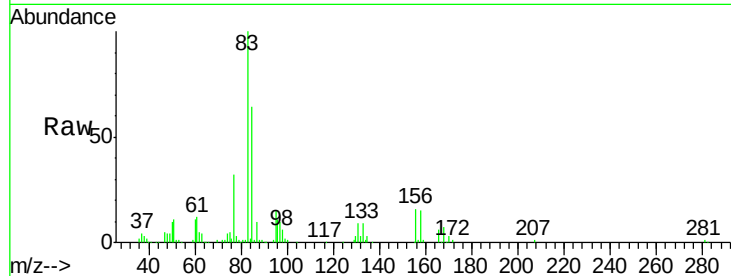
ClientSampled :

VSTDCCC050

Tot Ion:	83	Resp:	165447
Ion Ratio	Lower	Upper	
83	100		
131	9.5	5.1	15.3
85	64.8	32.3	96.8

Manual Integrations
APPROVED

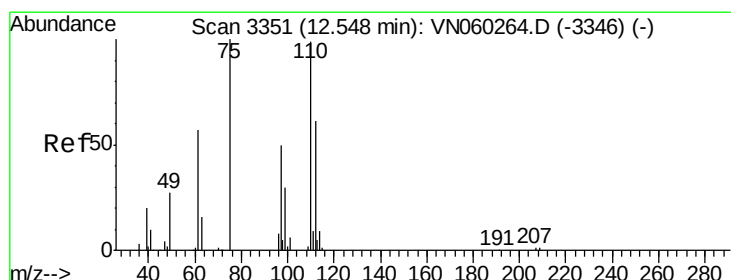
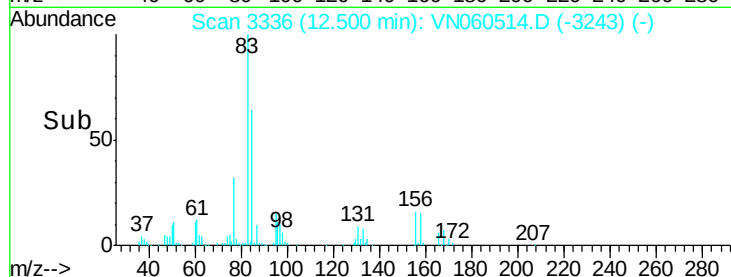
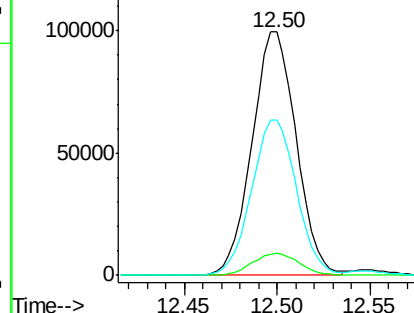
MMDadoda
3/17/2020 11:48:10 AM



Abundance Ion 82.90 (82.60 to 83.60): VN060514.D (-3243) (-)

Ion 130.80 (130.50 to 131.50): VN060514.D (-3243) (-)

Ion 84.90 (84.60 to 85.60): VN060514.D (-3243) (-)



#76

1,2,3-Trichloropropane

Concen: 45.023 ug/l m

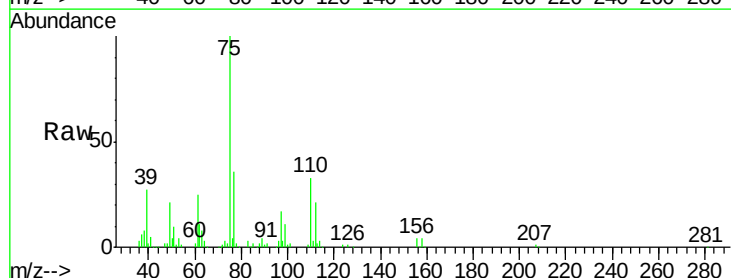
RT: 12.55 min Scan# 3351

Delta R.T. 0.00 min

Lab File: VN060514.D

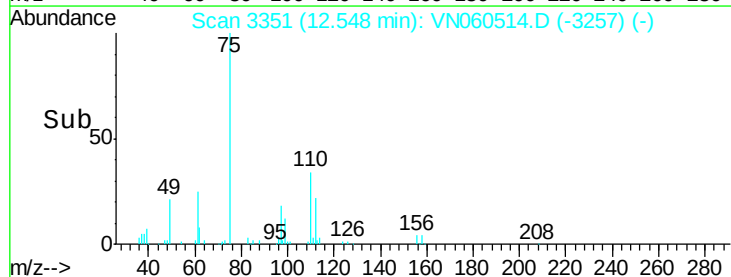
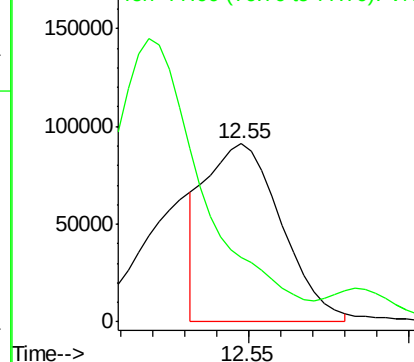
Acq: 16 Mar 2020 11:15

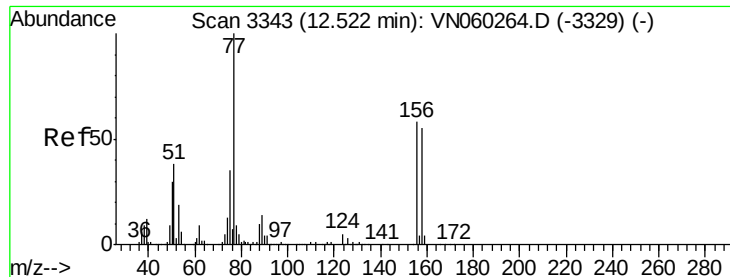
Tgt Ion:	75	Resp:	150173
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN060514.D (-3257) (-)

Ion 77.00 (76.70 to 77.70): VN060514.D (-3257) (-)





#77

Bromobenzene

Concen: 47.350 ug/l

RT: 12.52 min Scan# 3342

Delta R.T. -0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Instrument :

MSVOA_N

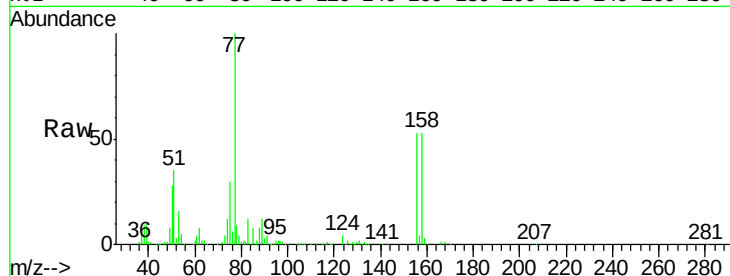
ClientSampleId :

VSTDCCC050

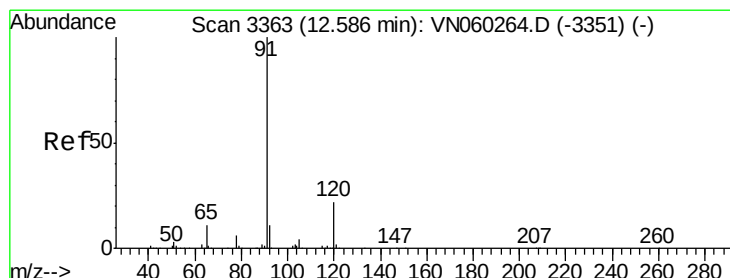
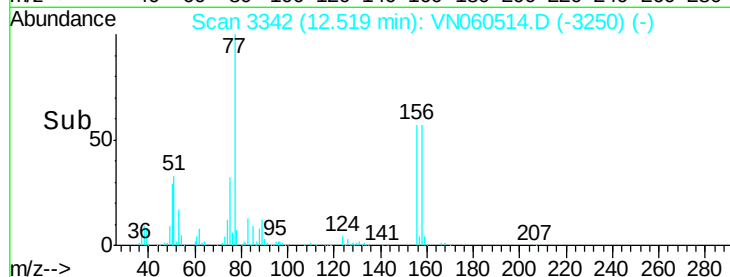
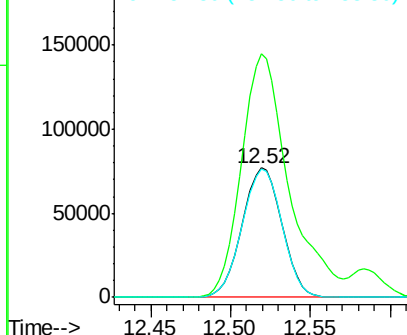
Tot Ion:	156	Resp:	130784
Ion Ratio	Lower	Upper	
156	100		
77	225.1	106.1	318.3
158	99.2	48.3	144.8

Manual Integrations
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Abundance Ion 155.80 (155.50 to 156.50): V
Ion 77.00 (76.70 to 77.70): VN
Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 49.616 ug/l

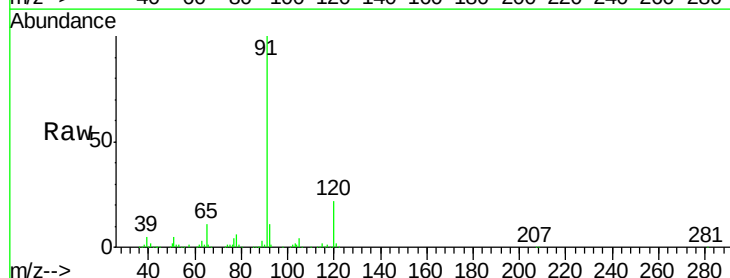
RT: 12.59 min Scan# 3363

Delta R.T. 0.00 min

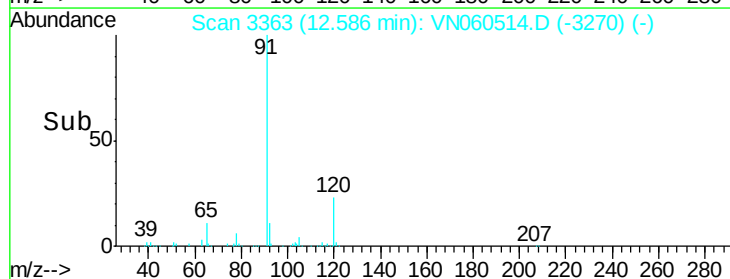
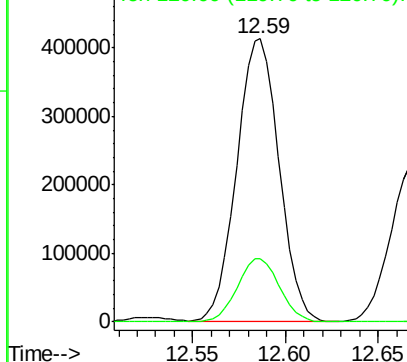
Lab File: VN060514.D

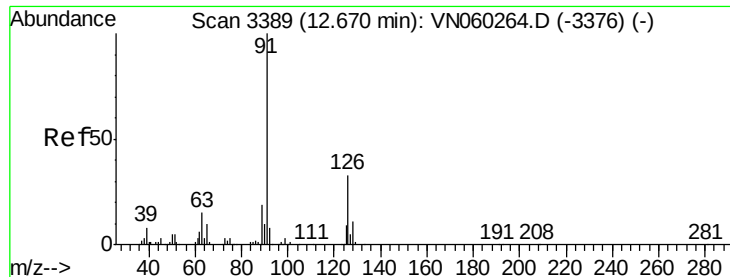
Acq: 16 Mar 2020 11:15

Tgt Ion:	91	Resp:	655339
Ion Ratio	Lower	Upper	
91	100		
120	22.3	11.3	33.9



Abundance Ion 91.00 (90.70 to 91.70): VN
Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 49.462 ug/l

RT: 12.67 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 384025

Ion Ratio Lower Upper

91 100

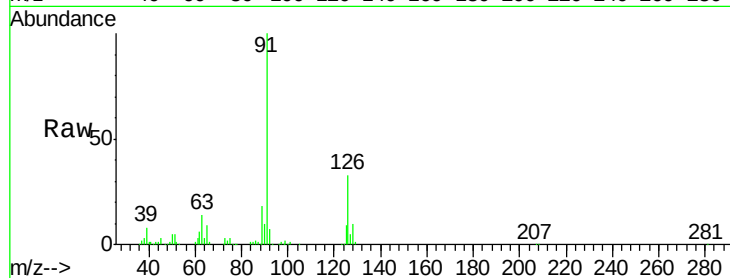
126 32.7 16.6 49.8

Manual Integrations

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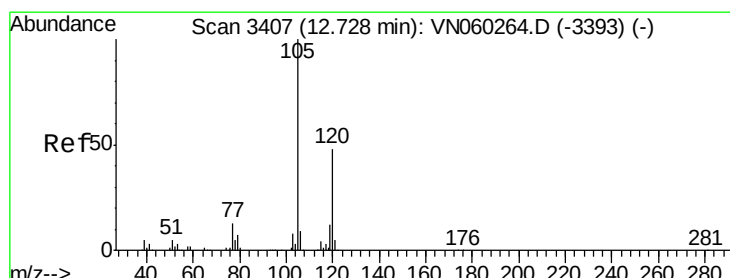
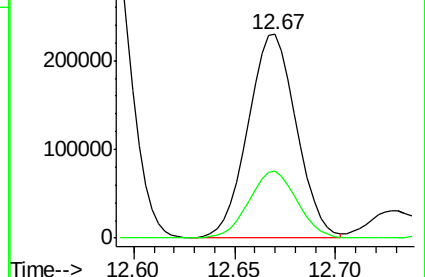
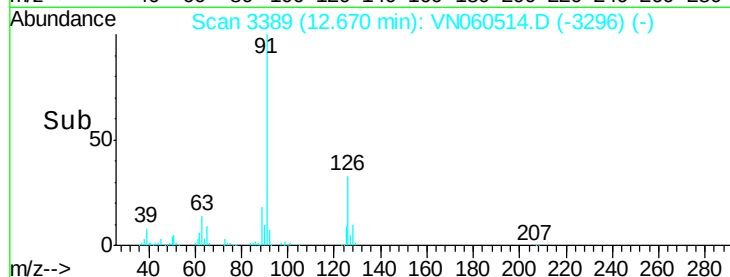


Abundance Ion 91.00 (90.70 to 91.70): VN060514.D (-3296) (-)

Ion 125.90 (125.60 to 126.60): VN060514.D (-3296) (-)

Time-->

12.67



#80

1,3,5-Trimethylbenzene

Concen: 48.974 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN060514.D

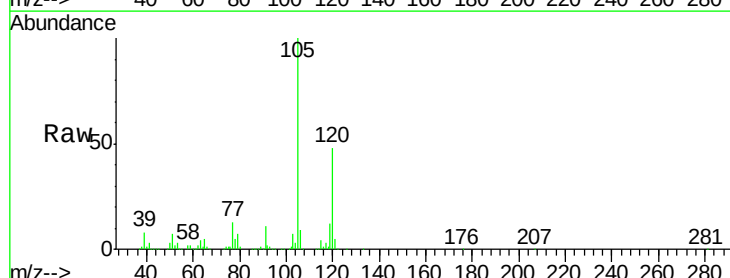
Acq: 16 Mar 2020 11:15

Tgt Ion: 105 Resp: 464621

Ion Ratio Lower Upper

105 100

120 48.1 24.1 72.4

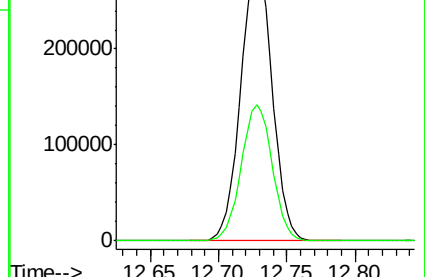
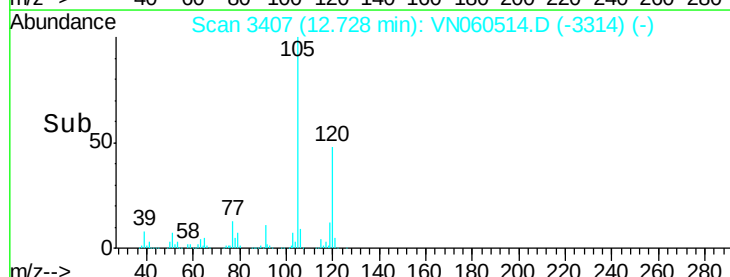


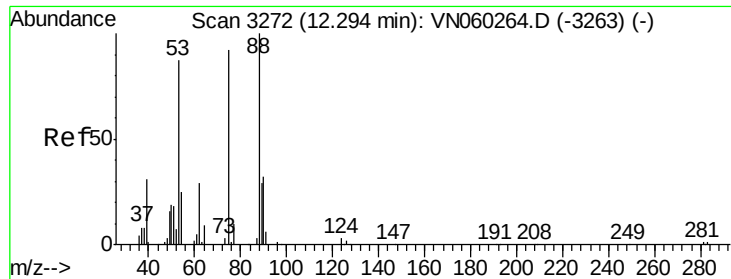
Abundance Ion 105.00 (104.70 to 105.70): VN060514.D (-3314) (-)

Ion 120.00 (119.70 to 120.70): VN060514.D (-3314) (-)

Time-->

12.73





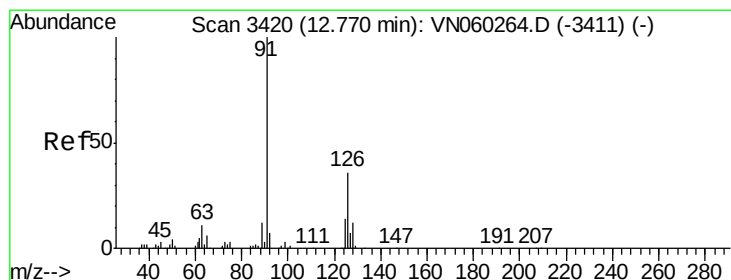
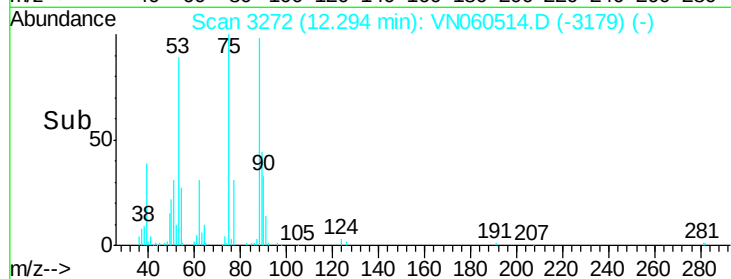
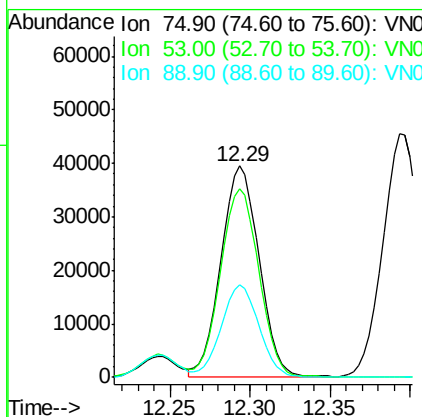
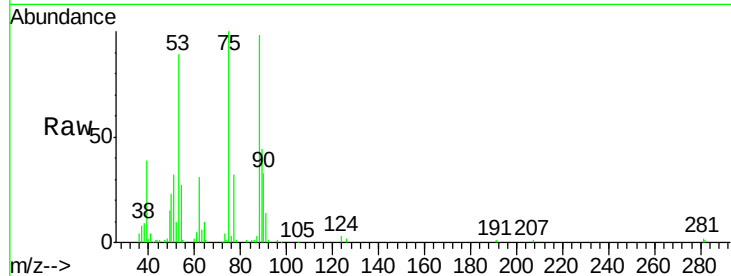
#81
trans-1,4-Dichloro-2-butene
Concen: 53.441 ug/l
RT: 12.29 min Scan# 3272
Delta R.T. 0.00 min
Lab File: VN060514.D
Acq: 16 Mar 2020 11:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	90.4	73.8	110.6
89	43.1	57.1	85.7#

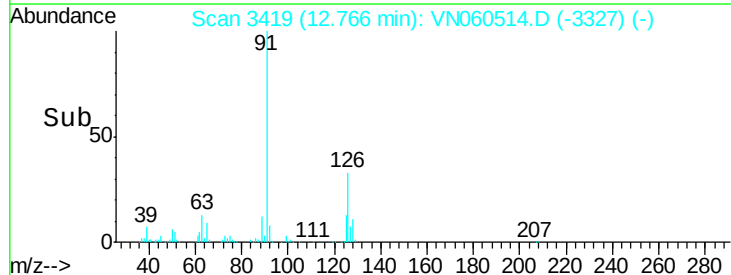
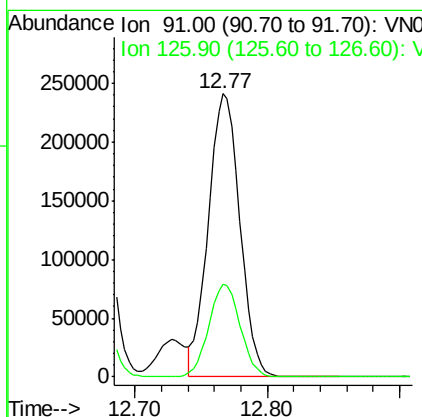
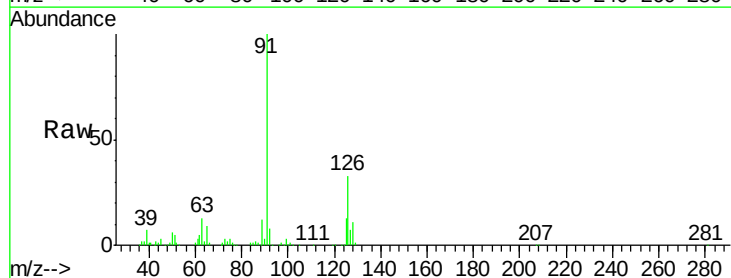
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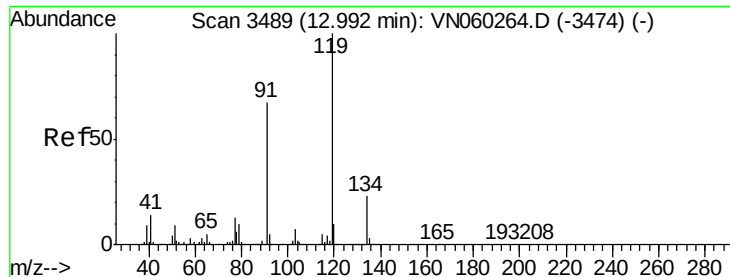
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#82
4-Chlorotoluene
Concen: 48.366 ug/l
RT: 12.77 min Scan# 3419
Delta R.T. -0.00 min
Lab File: VN060514.D
Acq: 16 Mar 2020 11:15

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.6	16.7	50.1





#83

tert-Butylbenzene

Concen: 47.906 ug/l

RT: 12.99 min Scan# 3488

Delta R.T. -0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Instrument :

MSVOA_N

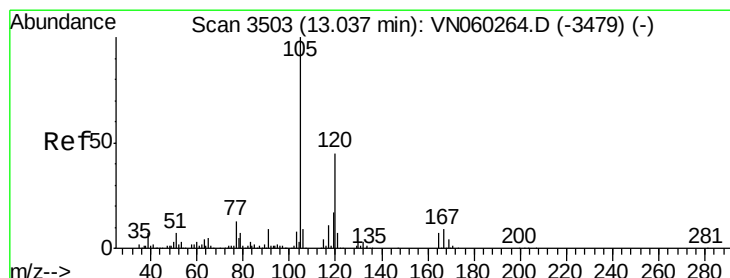
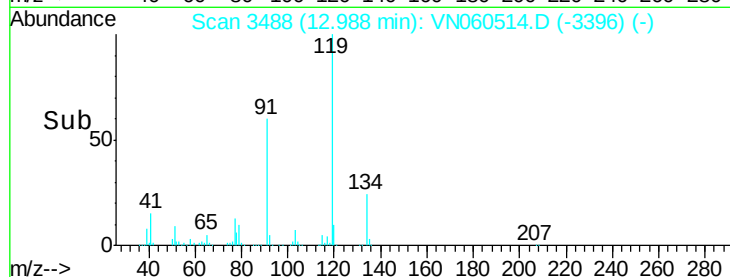
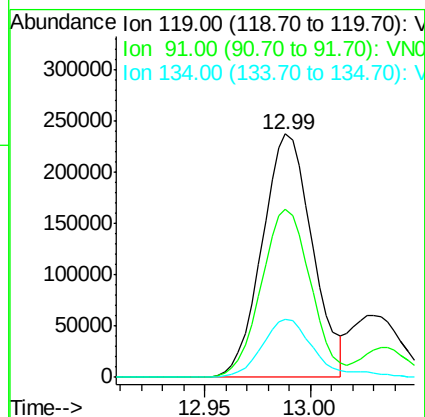
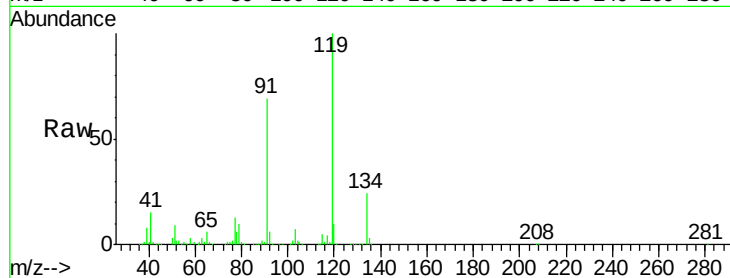
ClientSampleId :

VSTDCCC050

Tot Ion:	119	Resp:	393499
Ion Ratio	Lower	Upper	
119	100		
91	68.3	33.1	99.2
134	25.0	12.4	37.0

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#84

1,2,4-Trimethylbenzene

Concen: 48.595 ug/l

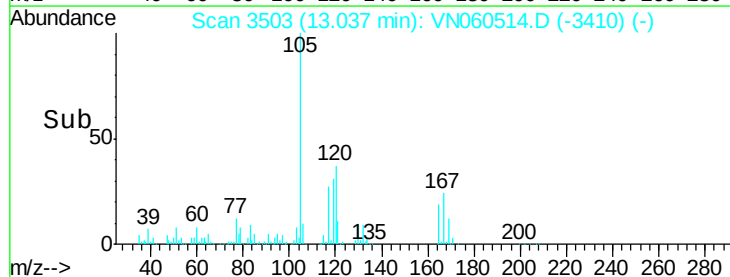
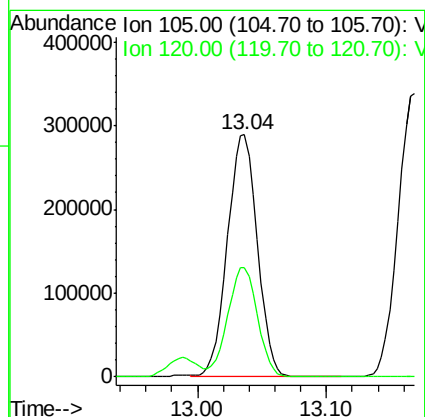
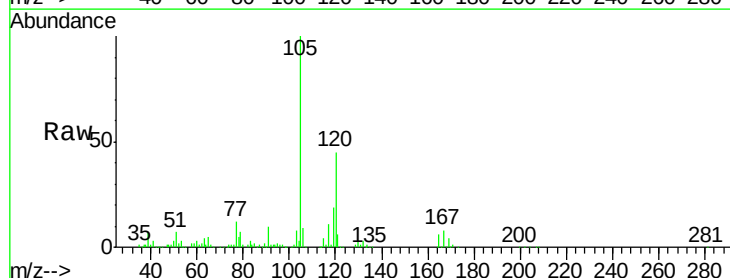
RT: 13.04 min Scan# 3503

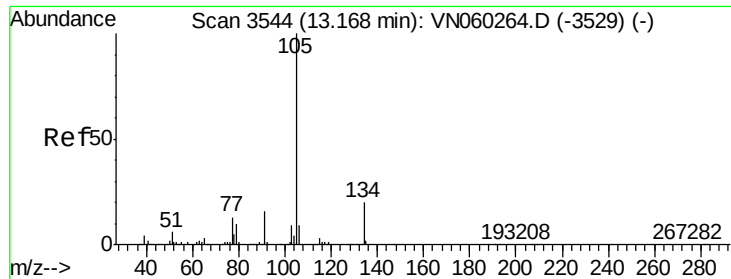
Delta R.T. 0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Tgt Ion:	105	Resp:	465335
Ion Ratio	Lower	Upper	
105	100		
120	44.7	22.3	66.9





#85

sec-Butylbenzene

Concen: 48.490 ug/l

RT: 13.17 min Scan# 3544

Delta R.T. 0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Instrument :

MSVOA_N

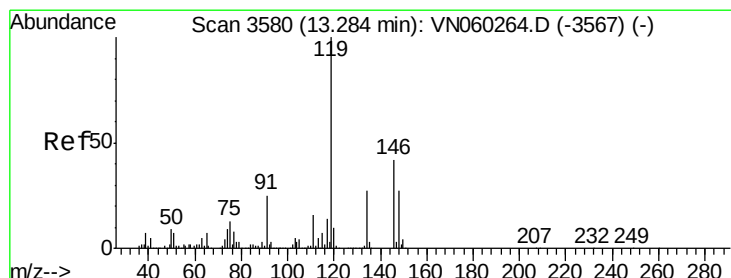
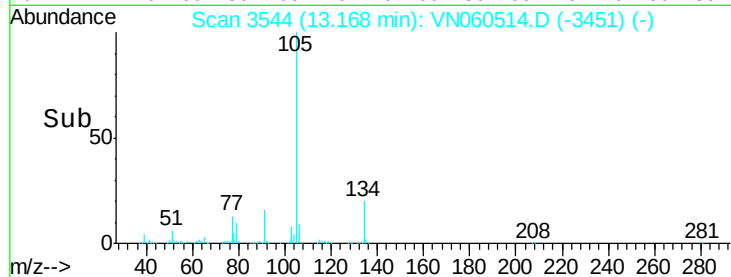
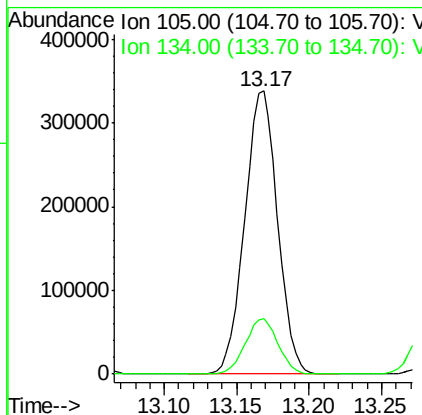
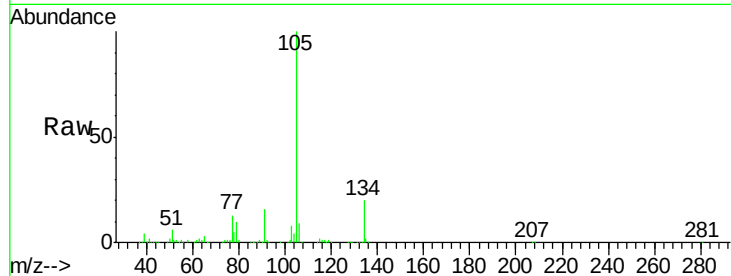
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
105	100	533366		
134	19.4	9.8	29.5	

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#86

p-Isopropyltoluene

Concen: 46.843 ug/l

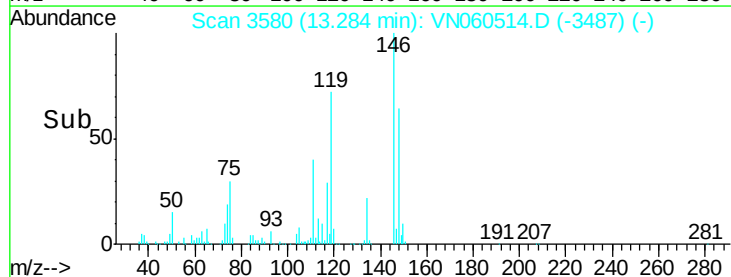
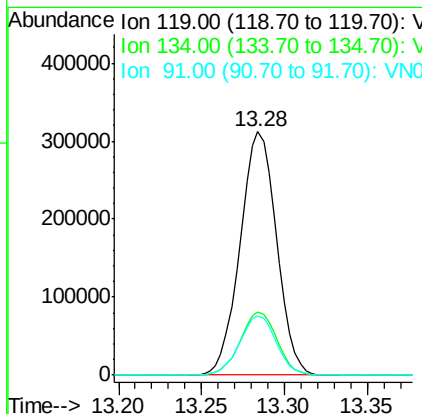
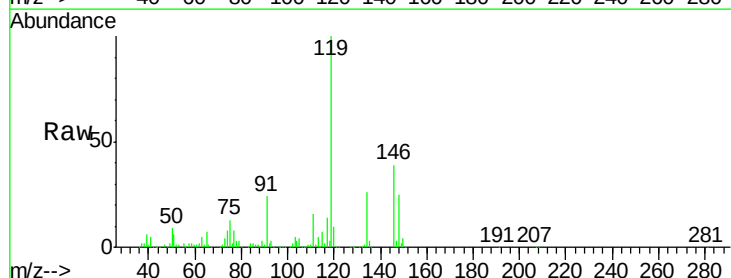
RT: 13.28 min Scan# 3580

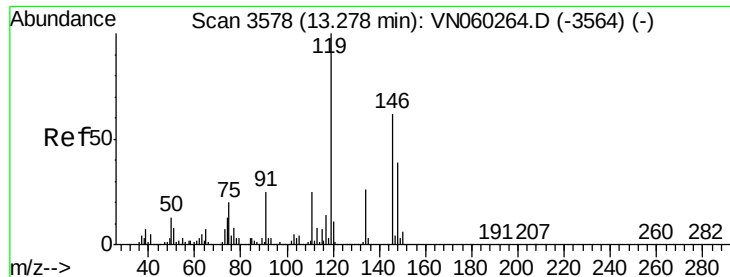
Delta R.T. 0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	476894		
134	26.2	13.2	39.6	
91	24.4	12.2	36.6	





#87

1,3-Dichlorobenzene

Concen: 50.331 ug/l

RT: 13.28 min Scan# 3578

Delta R.T. 0.00 min

Lab File: VN060514.D

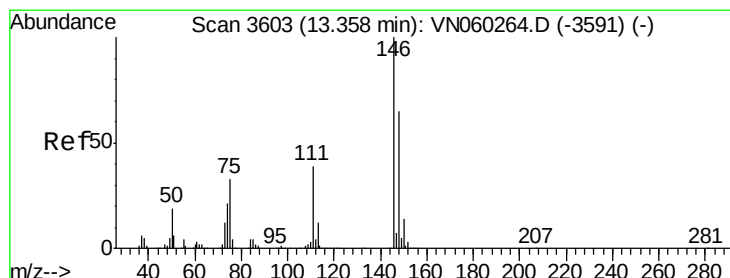
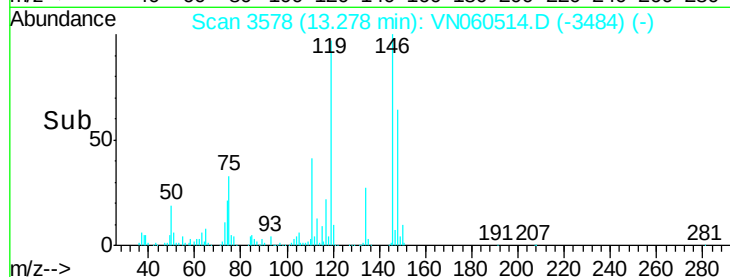
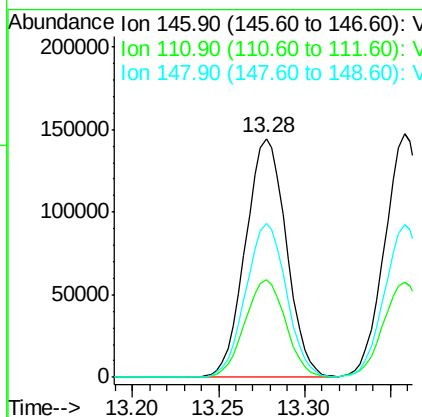
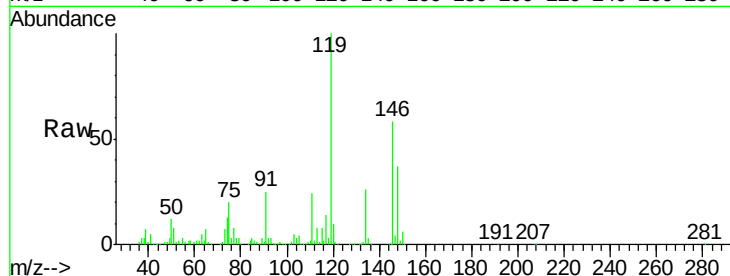
Acq: 16 Mar 2020 11:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.8	20.0	59.9
148	64.1	32.1	96.3

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#88

1,4-Dichlorobenzene

Concen: 50.886 ug/l

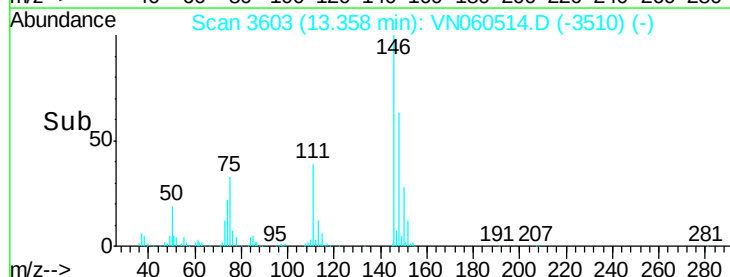
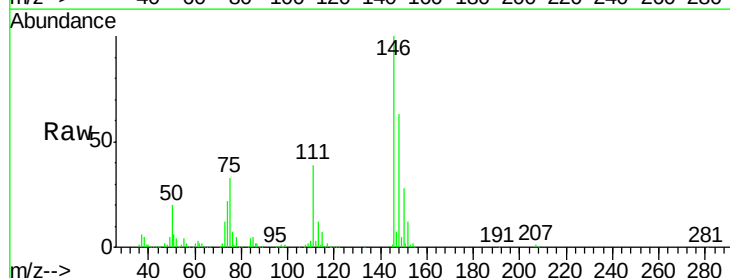
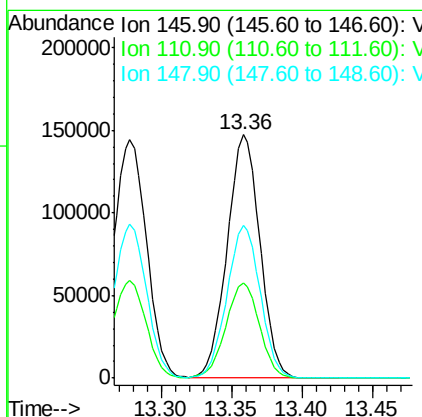
RT: 13.36 min Scan# 3603

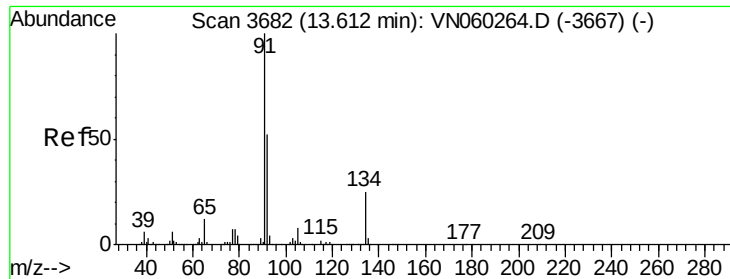
Delta R.T. 0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.1	19.8	59.4
148	63.6	32.3	96.9





#89

n-Butylbenzene

Concen: 47.775 ug/l

RT: 13.61 min Scan# 3681

Delta R.T. -0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Instrument :

MSVOA_N

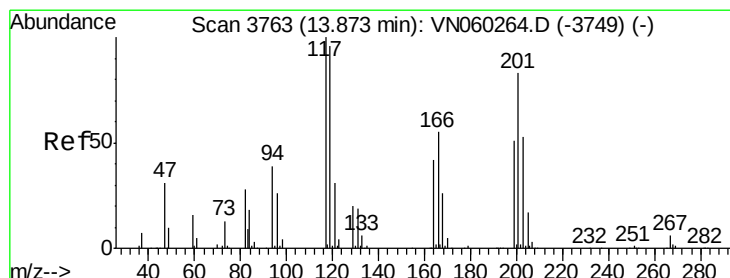
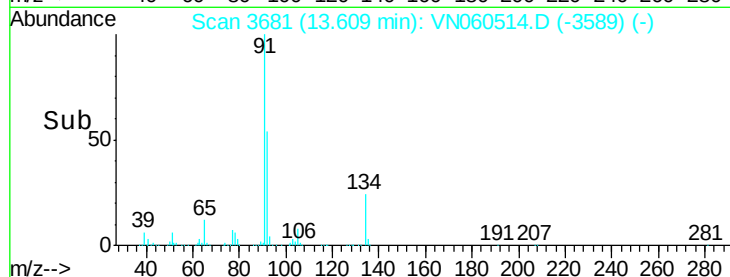
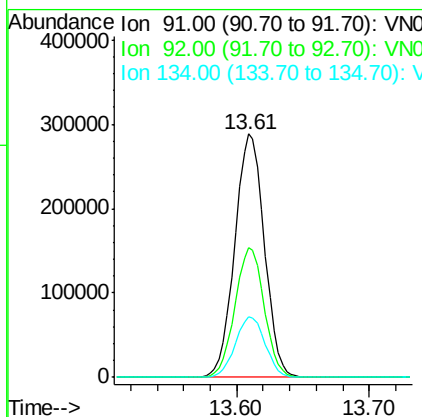
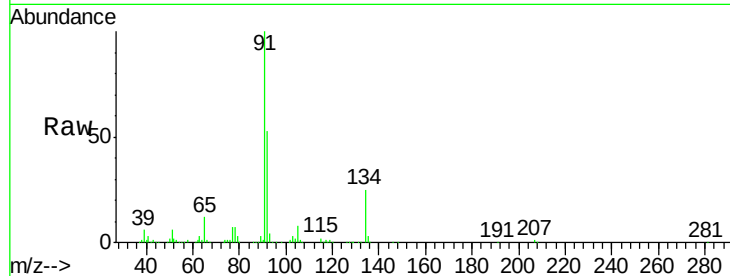
ClientSampleId :

VSTDCCC050

Tot Ion:	91	Resp:	446482
Ion Ratio	Lower	Upper	
91	100		
92	52.6	26.0	78.0
134	25.0	12.7	38.1

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#90

Hexachloroethane

Concen: 47.555 ug/l

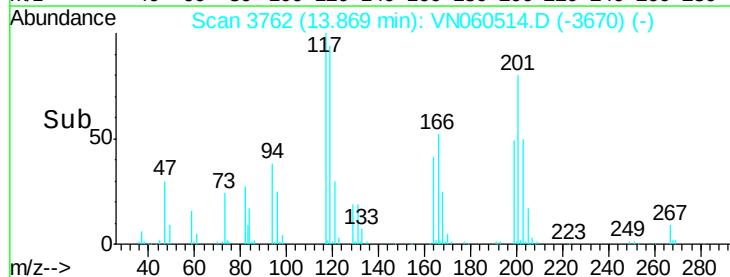
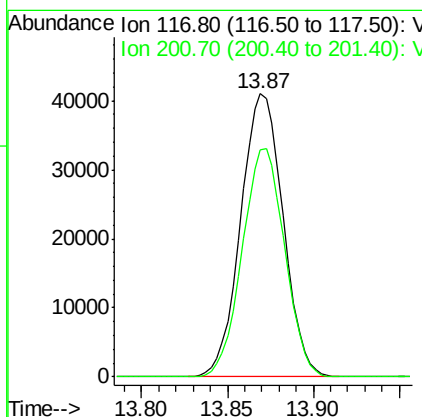
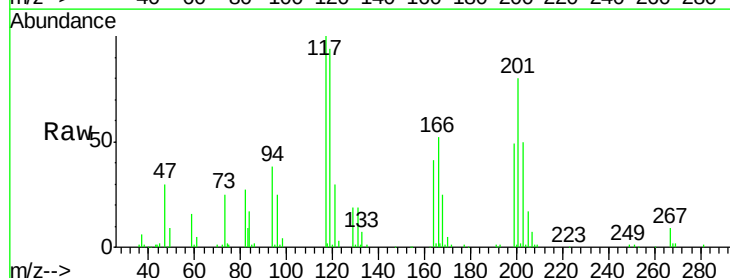
RT: 13.87 min Scan# 3762

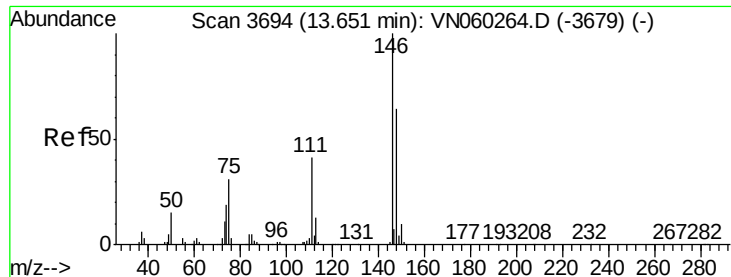
Delta R.T. -0.00 min

Lab File: VN060514.D

Acq: 16 Mar 2020 11:15

Tgt Ion:	117	Resp:	70077
Ion Ratio	Lower	Upper	
117	100		
201	80.8	41.0	123.0





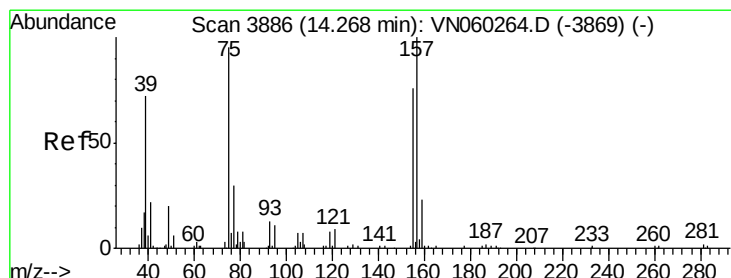
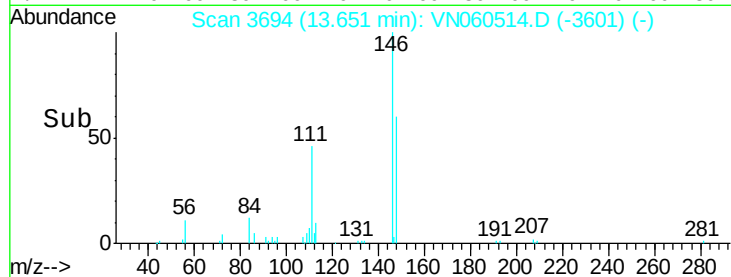
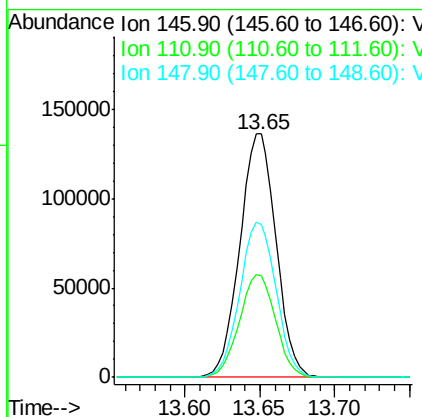
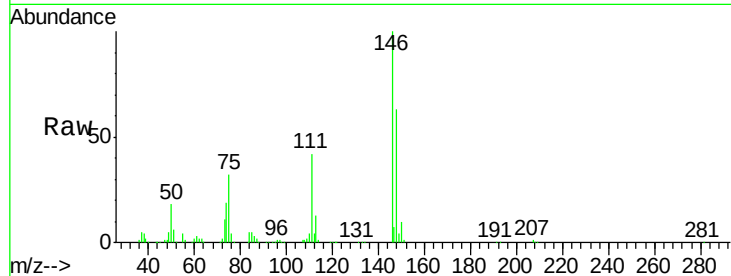
#91
 1,2-Dichlorobenzene
 Concen: 47.383 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN060514.D
 Acq: 16 Mar 2020 11:15

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.1	20.3	61.0
148	63.8	31.8	95.3

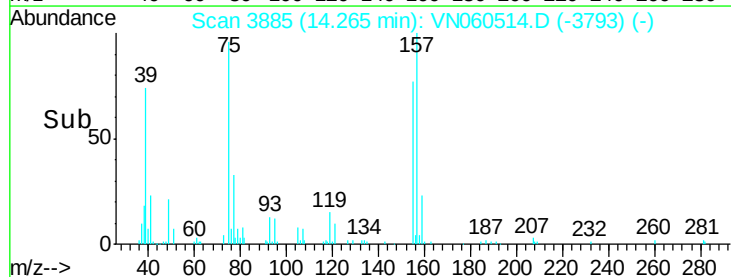
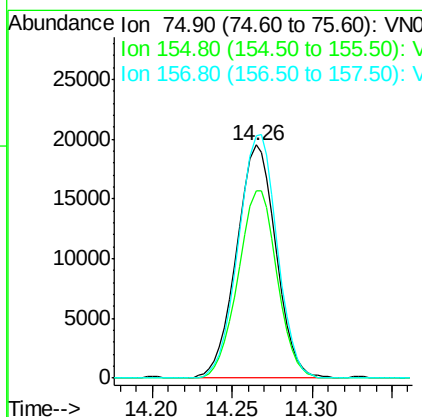
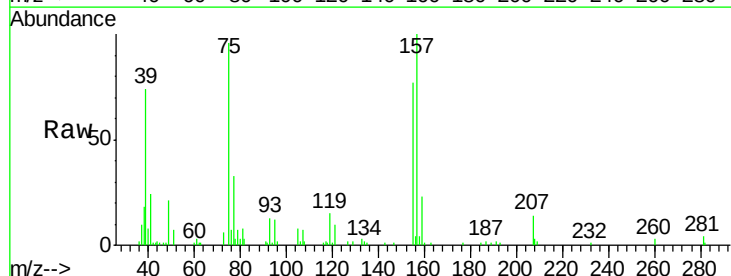
Manual Integrations
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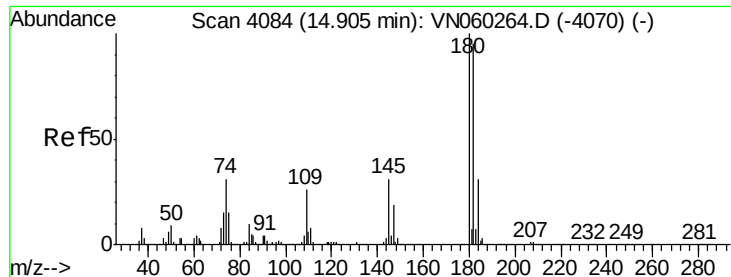
MMDadoda
 3/17/2020 11:48:10 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 47.094 ug/l
 RT: 14.26 min Scan# 3885
 Delta R.T. -0.00 min
 Lab File: VN060514.D
 Acq: 16 Mar 2020 11:15

Tgt Ion	Ratio	Lower	Upper
75	100		
155	79.5	40.4	121.2
157	102.6	52.5	157.5





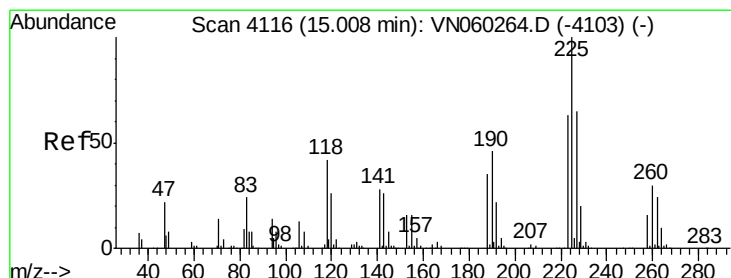
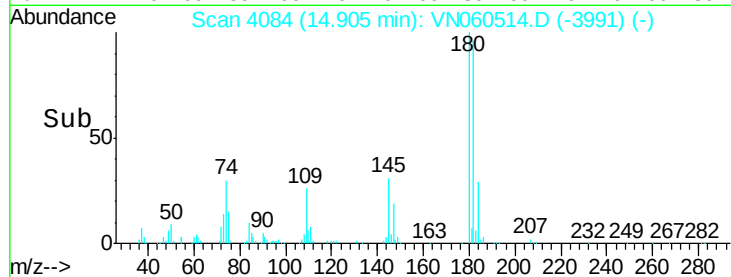
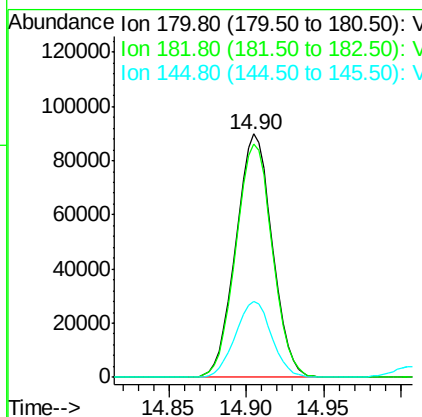
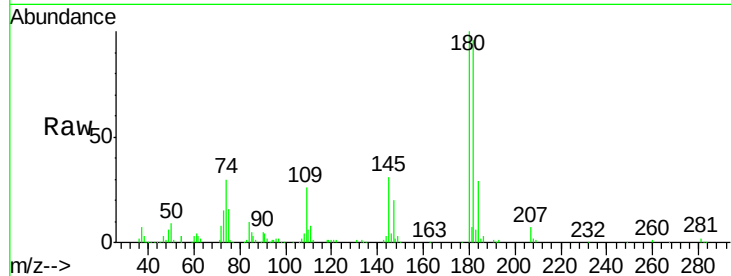
#93
 1,2,4-Trichlorobenzene
 Concen: 47.630 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. 0.00 min
 Lab File: VN060514.D
 Acq: 16 Mar 2020 11:15

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	146464		
182	96.5	47.8	143.3	
145	31.1	15.4	46.1	

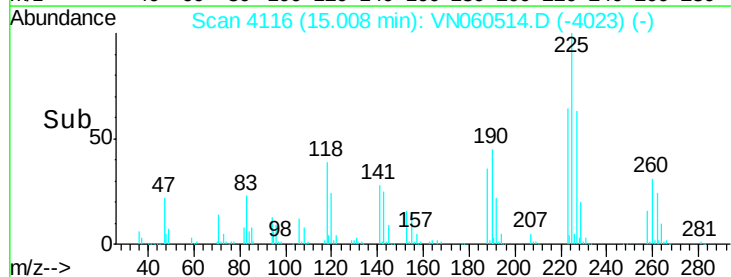
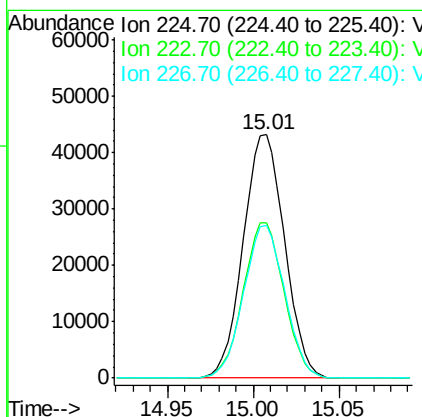
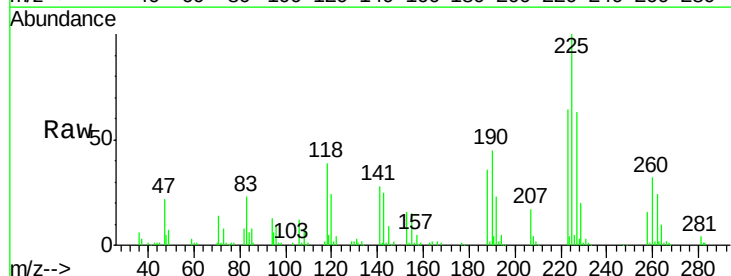
Manual Integrations
 APPROVED

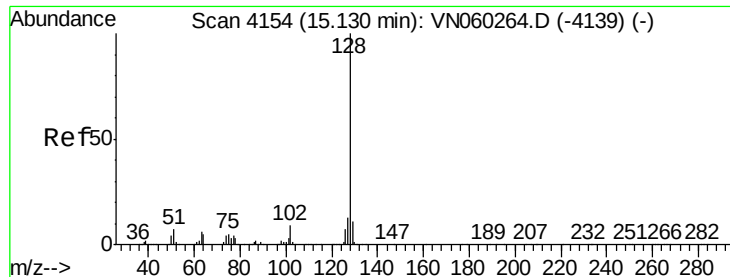
MMDadoda
 3/17/2020 11:48:10 AM



#94
 Hexachlorobutadiene
 Concen: 51.161 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN060514.D
 Acq: 16 Mar 2020 11:15

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	72306		
223	62.9	31.3	93.9	
227	62.3	32.3	96.9	





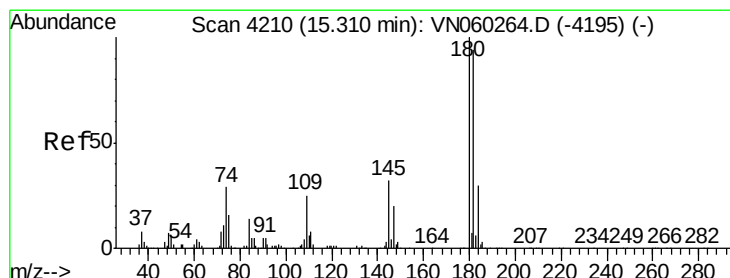
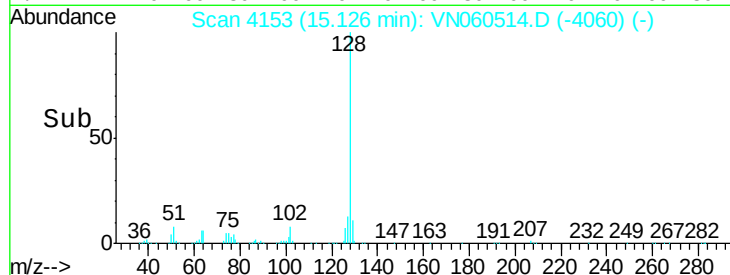
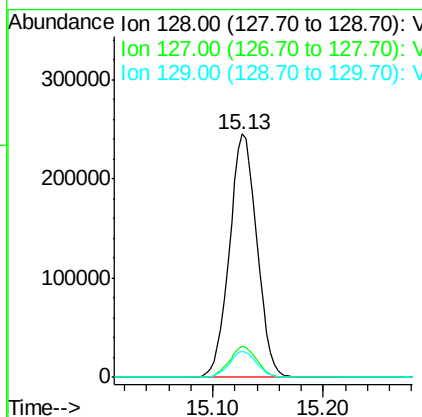
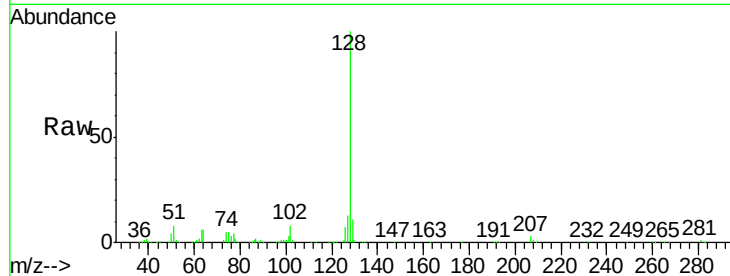
#95
Naphthalene
Concen: 46.650 ug/l
RT: 15.13 min Scan# 4153
Delta R.T. -0.00 min
Lab File: VN060514.D
Acq: 16 Mar 2020 11:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.4	15.6
129	10.7	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
3/17/2020 11:48:10 AM



#96
1,2,3-Trichlorobenzene
Concen: 48.160 ug/l
RT: 15.31 min Scan# 4210
Delta R.T. 0.00 min
Lab File: VN060514.D
Acq: 16 Mar 2020 11:15

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.3	142.0
145	31.9	16.2	48.5

