

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081418\
 Data File : VN050586.D
 Acq On : 14 Aug 2018 00:35
 Operator : MD\SY
 Sample : VSTDIC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 8/15/2018 3:21:04 PM

Quant Time: Aug 14 07:41:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 07:26:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	633245	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	929429	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	850474	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	419908	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	157329	18.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	37.48%	
35) Dibromofluoromethane	7.59	113	143750	19.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	38.50%	
50) Toluene-d8	10.09	98	536169	19.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	38.20%	
62) 4-Bromofluorobenzene	12.40	95	169483	17.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	35.60%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	143232	20.36	ug/l	99
3) Chloromethane	2.06	50	179992	19.16	ug/l	99
4) Vinyl Chloride	2.18	62	186987	20.51	ug/l	99
5) Bromomethane	2.56	94	103292	18.48	ug/l	100
6) Chloroethane	2.70	64	111344	19.91	ug/l	98
7) Trichlorofluoromethane	3.01	101	243531	20.72	ug/l	97
8) Diethyl Ether	3.41	74	80297	18.79	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.76	101	149015	20.50	ug/l	99
10) Methyl Iodide	3.95	142	81313	23.15	ug/l	100
11) Tert butyl alcohol	4.80	59	43585	69.10	ug/l	99
12) 1,1-Dichloroethene	3.73	96	132143	19.32	ug/l	98
13) Acrolein	3.61	56	15720	23.29	ug/l	96
14) Allyl chloride	4.32	41	199972	18.35	ug/l	99
15) Acrylonitrile	4.99	53	234570	84.65	ug/l	99
16) Acetone	3.82	43	201240	76.11	ug/l	98
17) Carbon Disulfide	4.05	76	416499	18.72	ug/l	99
18) Methyl Acetate	4.33	43	114200	15.15	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	341293	17.89	ug/l	100
20) Methylene Chloride	4.55	84	156921	16.67	ug/l	98
21) trans-1,2-Dichloroethene	5.04	96	144392	19.52	ug/l	98
22) Diisopropyl ether	5.96	45	447885	20.03	ug/l	97
23) Vinyl Acetate	5.90	43	1418319	90.34	ug/l	99
24) 1,1-Dichloroethane	5.85	63	270981	19.69	ug/l	99
25) 2-Butanone	6.84	43	316027	78.52	ug/l	98
26) 2,2-Dichloropropane	6.83	77	180288	16.39	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	159802	19.52	ug/l	100
28) Bromochloromethane	7.20	49	130974	20.65	ug/l	100
29) Tetrahydrofuran	7.22	42	167631	77.64	ug/l	100
30) Chloroform	7.37	83	277529	20.18	ug/l	99
31) Cyclohexane	7.66	56	234916	17.05	ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	232786	19.71	ug/l	99
36) 1,1-Dichloropropene	7.80	75	204286	20.03	ug/l	98
37) Ethyl Acetate	6.93	43	118938	16.85	ug/l	98
38) Carbon Tetrachloride	7.78	117	208617	19.61	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	207768	18.68	ug/l	96
40) Benzene	8.04	78	628460	20.02	ug/l	100
41) Methacrylonitrile	7.18	41	62543	16.41	ug/l	98
42) 1,2-Dichloroethane	8.13	62	193137	19.56	ug/l	99
43) Isopropyl Acetate	8.17	43	214165	17.39	ug/l	99
44) Trichloroethene	8.84	130	164045	19.43	ug/l	97
45) 1,2-Dichloropropane	9.12	63	165100	20.01	ug/l	99
46) Dibromomethane	9.21	93	96860	19.22	ug/l	98
47) Bromodichloromethane	9.40	83	205060	19.45	ug/l	100
48) Methyl methacrylate	9.20	41	103404	16.82	ug/l	98
49) 1,4-Dioxane	9.20	88	27544	294.69	ug/l	99
51) 4-Methyl-2-Pentanone	9.99	43	735883	83.68	ug/l	99
52) Toluene	10.16	92	387083	20.55	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	189801	18.14	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	224381	19.11	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	138518	19.01	ug/l	99
56) Ethyl methacrylate	10.43	69	157945	17.41	ug/l	99
57) 1,3-Dichloropropane	10.71	76	231341	19.32	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	377032	88.98	ug/l	100
59) 2-Hexanone	10.75	43	466274	76.46	ug/l	99
60) Dibromochloromethane	10.90	129	153384	19.08	ug/l	99
61) 1,2-Dibromoethane	11.01	107	132556	18.53	ug/l	99
64) Tetrachloroethene	10.63	164	158710	20.00	ug/l	97
65) Chlorobenzene	11.43	112	416943	19.55	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	154568	19.86	ug/l	99
67) Ethyl Benzene	11.51	91	682406	19.79	ug/l	99
68) m/p-Xylenes	11.62	106	538449	40.98	ug/l	99
69) o-Xylene	11.95	106	252233	19.97	ug/l	98
70) Styrene	11.96	104	415736	20.29	ug/l	100
71) Bromoform	12.13	173	102623	18.38	ug/l #	100
73) Isopropylbenzene	12.25	105	667380	21.02	ug/l	99
74) N-amyl acetate	12.07	43	169835	17.11	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	169019	18.86	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	150927m	19.89	ug/l	
77) Bromobenzene	12.53	156	173694	20.45	ug/l	98
78) n-propylbenzene	12.59	91	756549	21.07	ug/l	99
79) 2-Chlorotoluene	12.67	91	461743	20.81	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	556486	21.64	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	35931	17.13	ug/l	96
82) 4-Chlorotoluene	12.77	91	470535	21.28	ug/l	99
83) tert-Butylbenzene	12.99	119	458109	20.47	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	566422	21.75	ug/l	99
85) sec-Butylbenzene	13.17	105	616851	20.64	ug/l	100
86) p-Isopropyltoluene	13.29	119	527638	20.63	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	301471	20.01	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	291932	19.42	ug/l	99
89) n-Butylbenzene	13.62	91	398246	18.42	ug/l	98
90) Hexachloroethane	13.88	117	94579	20.61	ug/l	100
91) 1,2-Dichlorobenzene	13.65	146	293579	19.52	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	22087	14.78	ug/l	96

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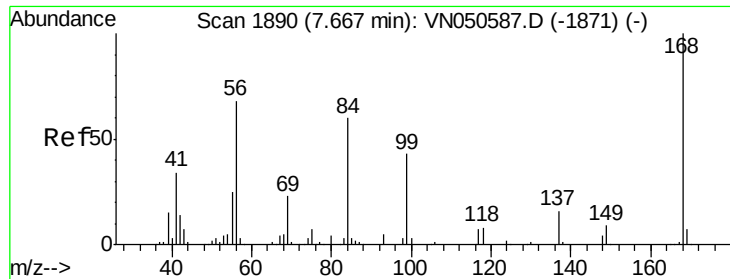
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	124128	16.42	ug/l	98
94) Hexachlorobutadiene	15.01	225	86763	15.75	ug/l	98
95) Naphthalene	15.13	128	241886	14.15	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	122308	16.01	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN050586.D

Acq: 14 Aug 2018 00:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 633245

Ion Ratio Lower Upper

168 100

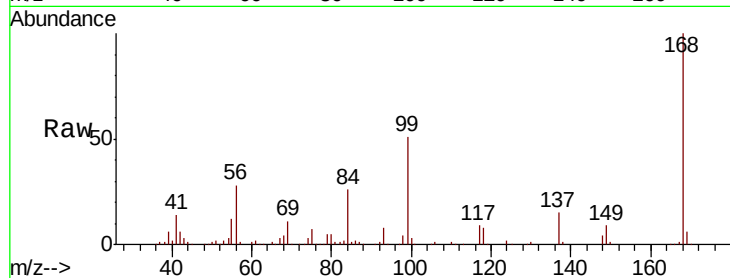
99 50.9 40.8 61.2

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

300000

250000

200000

150000

100000

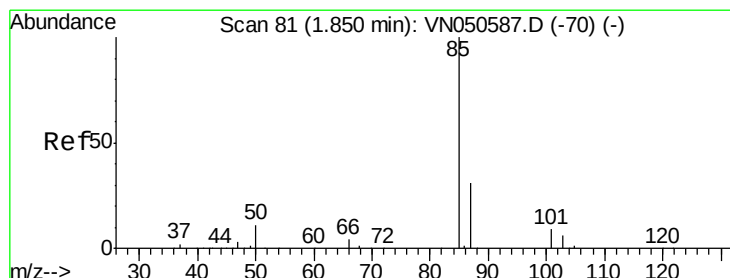
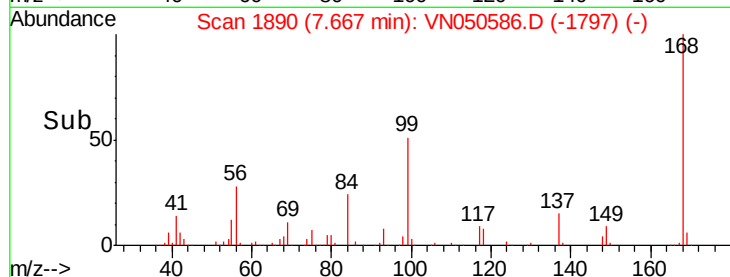
50000

0

7.60

7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 20.36 ug/l

RT: 1.85 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN050586.D

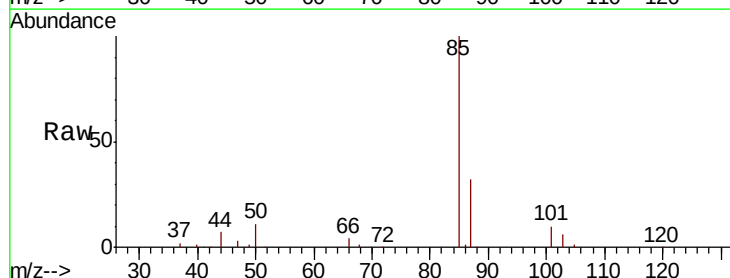
Acq: 14 Aug 2018 00:35

Tgt Ion: 85 Resp: 143232

Ion Ratio Lower Upper

85 100

87 32.2 15.8 47.3



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

120000

100000

80000

60000

40000

20000

0

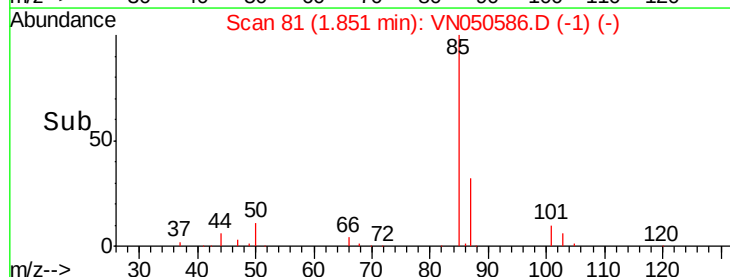
1.80

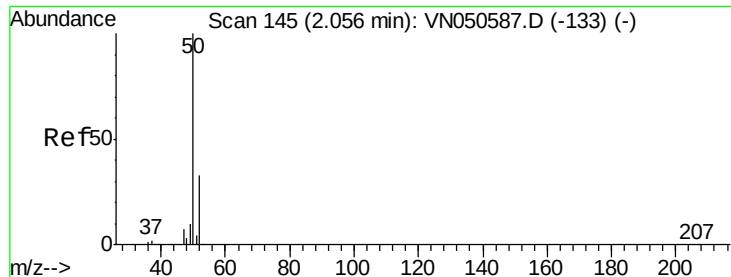
1.85

1.90

1.95

Time-->





#3

Chloromethane

Concen: 19.16 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050586.D

Acq: 14 Aug 2018 00:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 179992

Ion Ratio Lower Upper

50 100

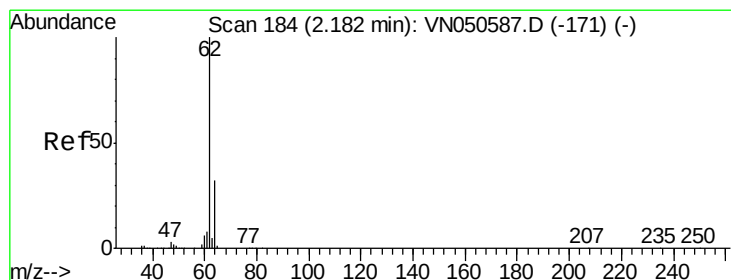
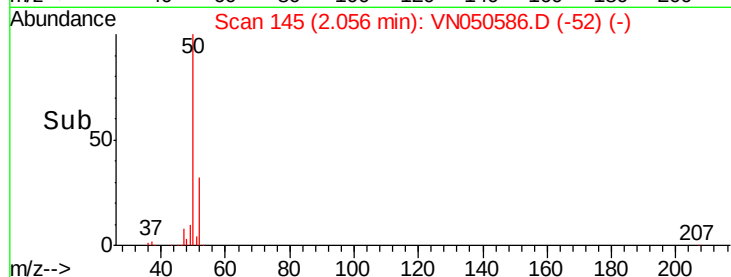
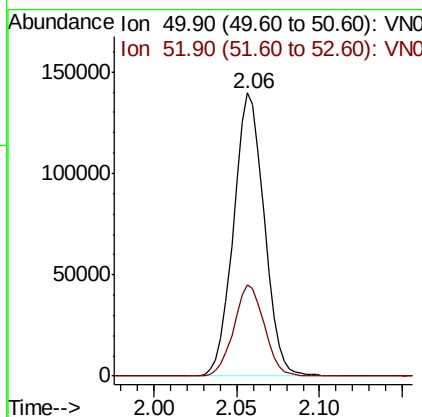
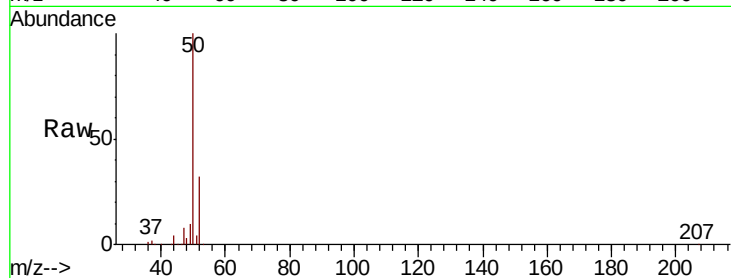
52 32.1 26.0 39.0

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#4

Vinyl Chloride

Concen: 20.51 ug/l

RT: 2.18 min Scan# 184

Delta R.T. 0.00 min

Lab File: VN050586.D

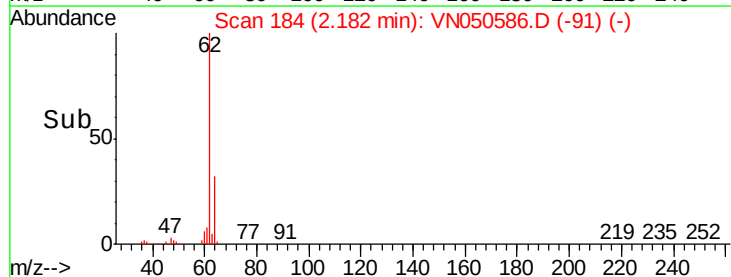
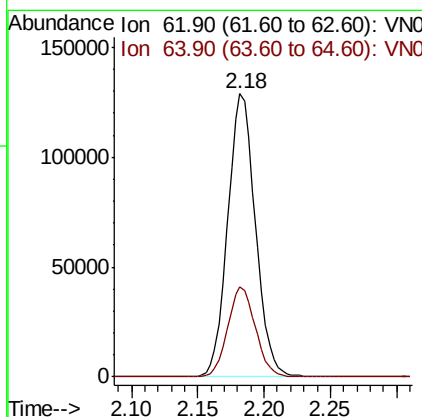
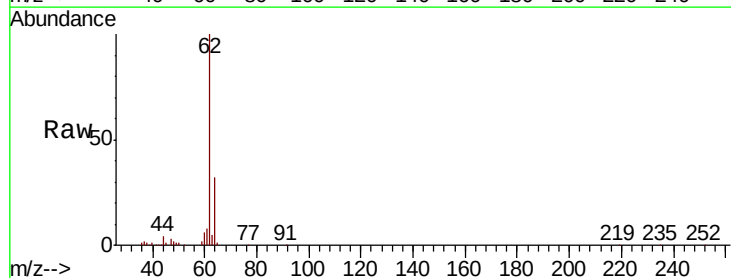
Acq: 14 Aug 2018 00:35

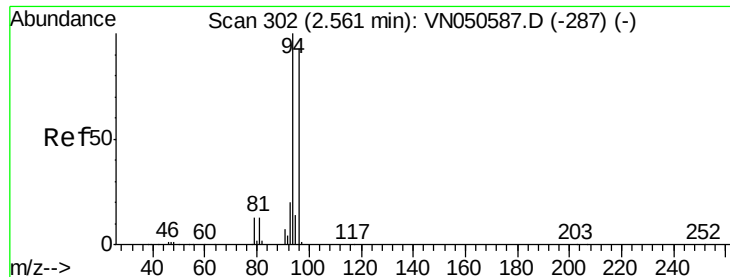
Tgt Ion: 62 Resp: 186987

Ion Ratio Lower Upper

62 100

64 31.8 25.2 37.8





#5

Bromomethane

Concen: 18.48 ug/l

RT: 2.56 min Scan# 303

Delta R.T. 0.00 min

Lab File: VN050586.D

Acq: 14 Aug 2018 00:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 94 Resp: 103292

Ion Ratio Lower Upper

94 100

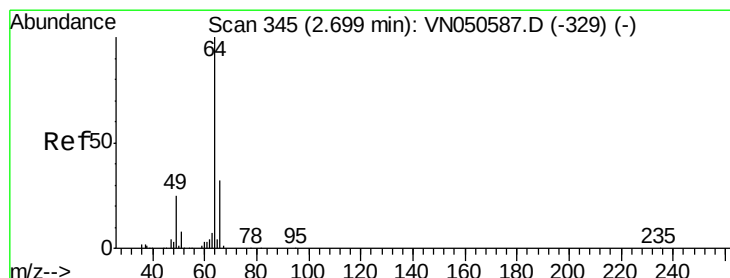
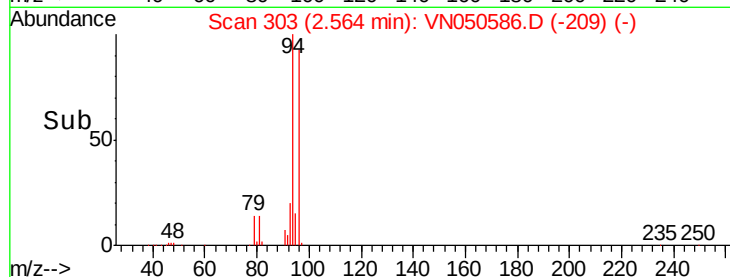
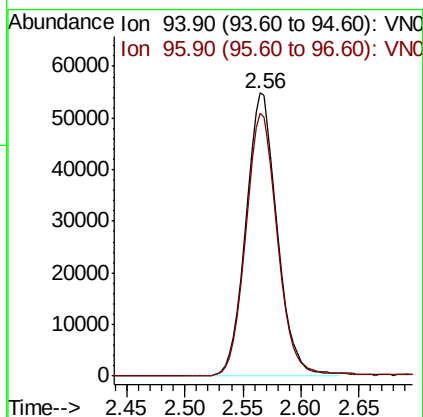
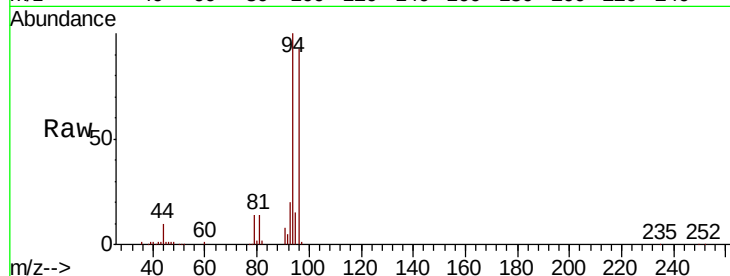
96 92.7 74.0 111.0

Manual Integrations

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#6

Chloroethane

Concen: 19.91 ug/l

RT: 2.70 min Scan# 345

Delta R.T. 0.00 min

Lab File: VN050586.D

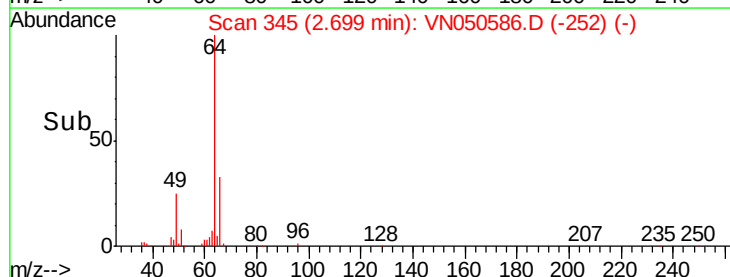
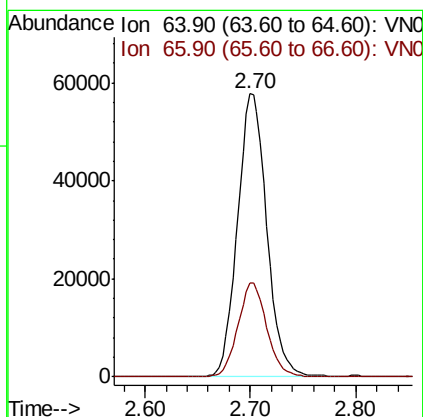
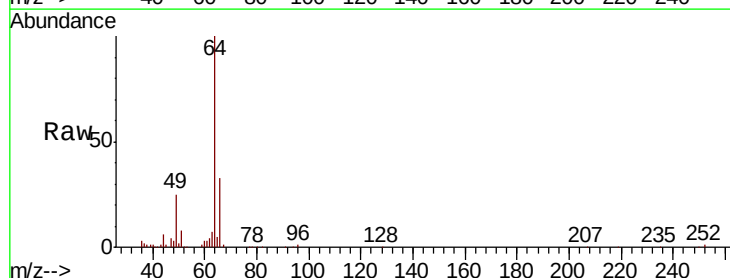
Acq: 14 Aug 2018 00:35

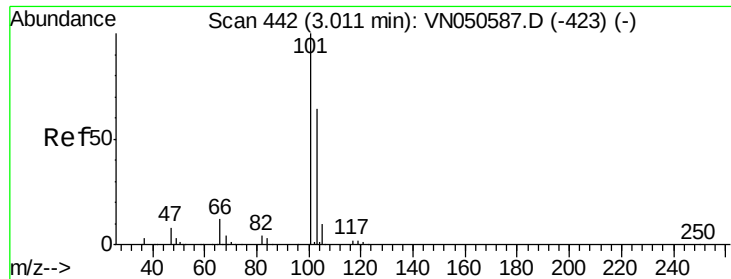
Tgt Ion: 64 Resp: 111344

Ion Ratio Lower Upper

64 100

66 33.1 25.7 38.5





#7

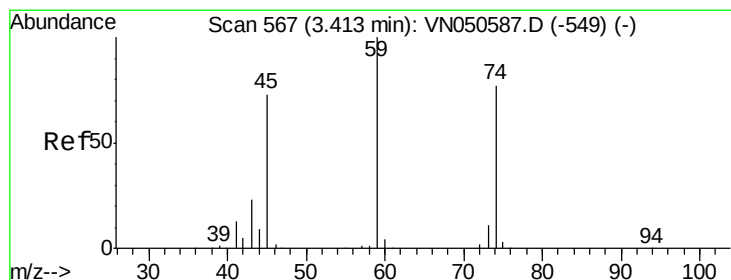
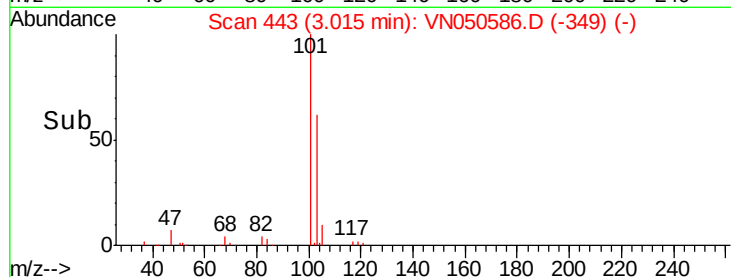
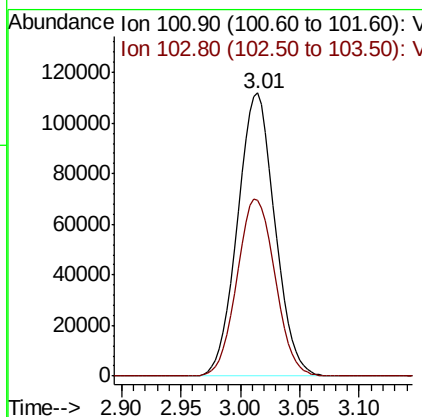
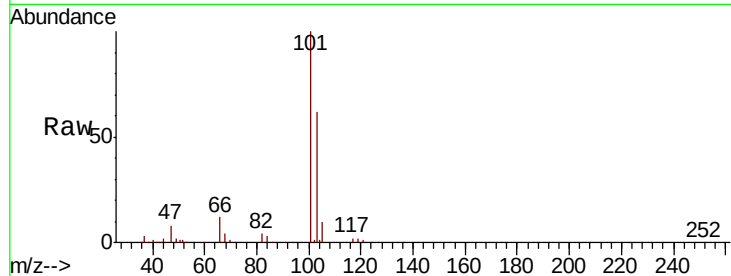
Trichlorofluoromethane
Concen: 20.72 ug/l
RT: 3.01 min Scan# 443
Delta R.T. 0.00 min
Lab File: VN050586.D
Acq: 14 Aug 2018 00:35

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ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
101	100		
103	62.0	51.4	77.0

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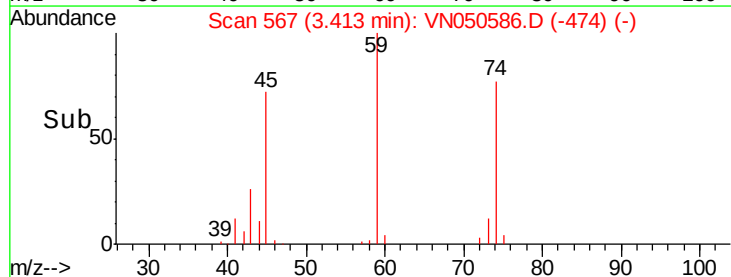
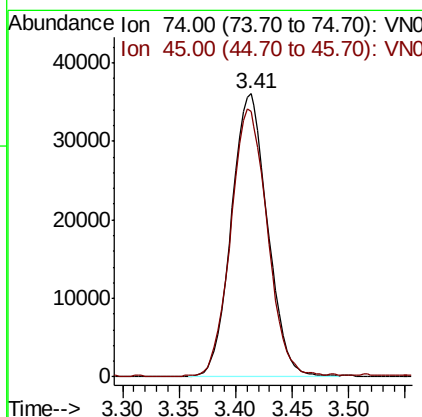
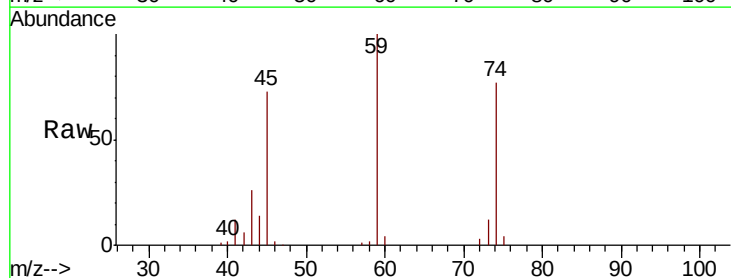
MMDadoda
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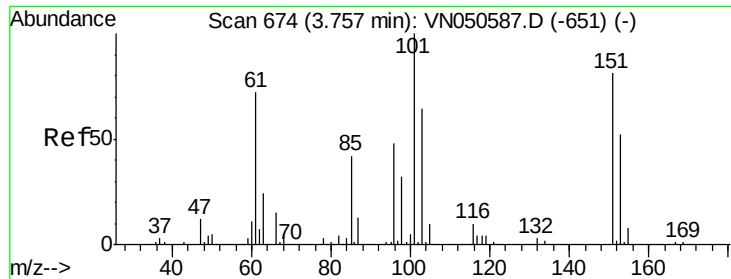


#8

Diethyl Ether
Concen: 18.79 ug/l
RT: 3.41 min Scan# 567
Delta R.T. 0.00 min
Lab File: VN050586.D
Acq: 14 Aug 2018 00:35

Tgt Ion	Ratio	Lower	Upper
74	100		
45	96.2	48.0	144.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.50 ug/l

RT: 3.76 min Scan# 674

Delta R.T. 0.00 min

Lab File: VN050586.D

Acq: 14 Aug 2018 00:35

Instrument :

MSVOA_N

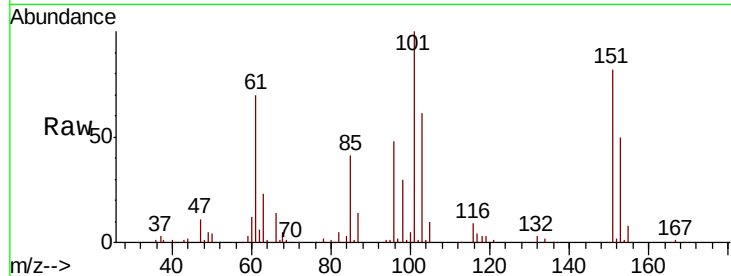
ClientSampleId :

VSTDIC020

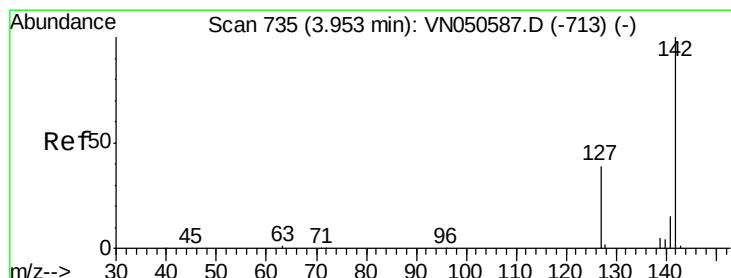
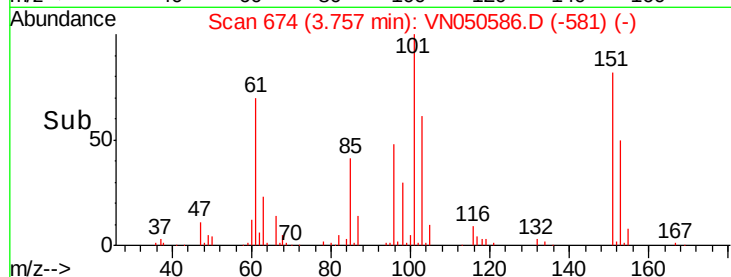
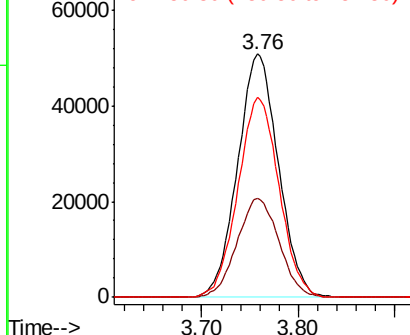
Tot Ion:	101	Resp:	149015
Ion Ratio	Lower	Upper	
101	100		
85	41.9	33.4	50.0
151	82.6	66.6	100.0

Manual Integrations
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Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 23.15 ug/l

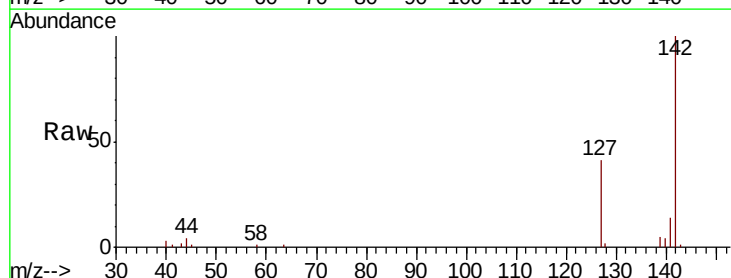
RT: 3.95 min Scan# 735

Delta R.T. 0.00 min

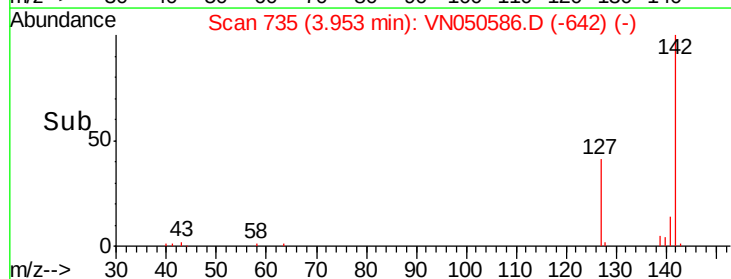
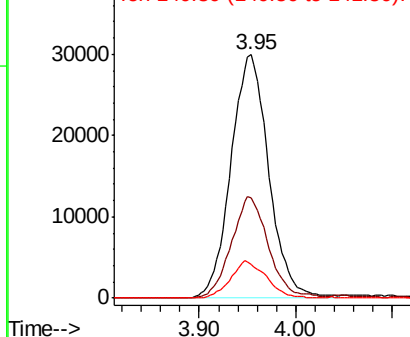
Lab File: VN050586.D

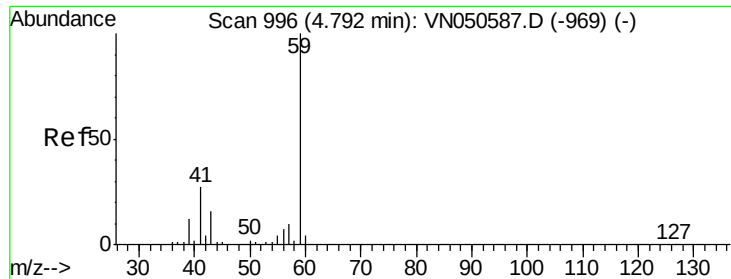
Acq: 14 Aug 2018 00:35

Tgt Ion:	142	Resp:	81313
Ion Ratio	Lower	Upper	
142	100		
127	40.9	32.6	49.0
141	14.3	11.5	17.3



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





#11

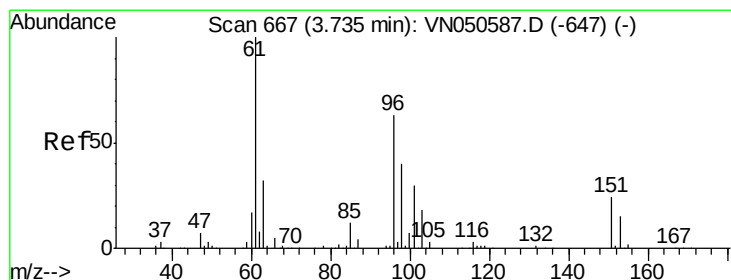
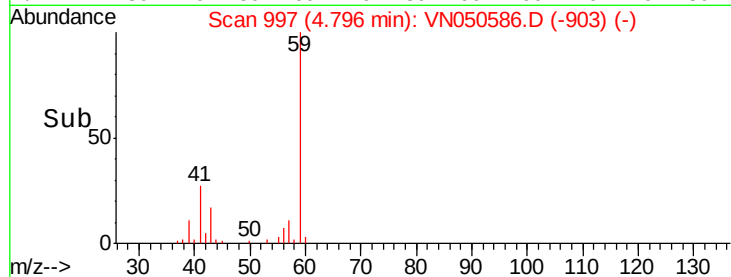
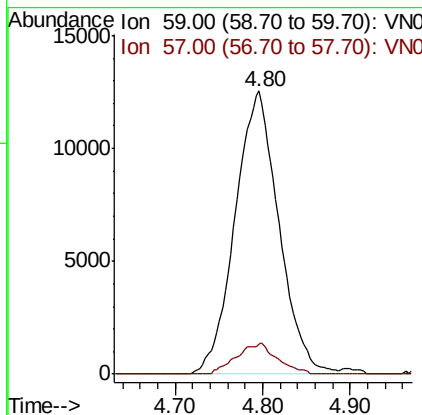
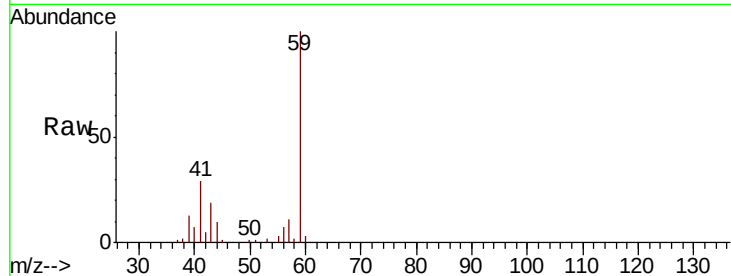
Tert butyl alcohol
 Concen: 69.10 ug/l
 RT: 4.80 min Scan# 997
 Delta R.T. 0.00 min
 Lab File: VN050586.D
 Acq: 14 Aug 2018 00:35

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion	59	Resp	43585
Ion Ratio	100	Lower	Upper
57	10.1	8.4	12.6

Manual Integrations
 APPROVED

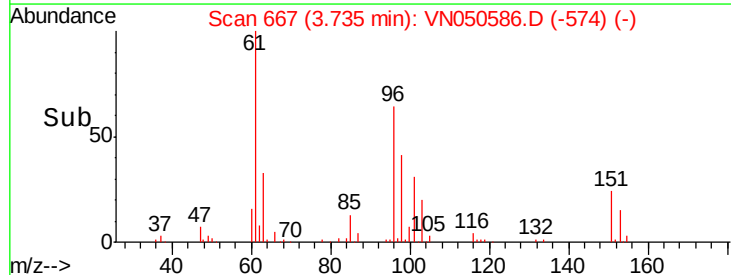
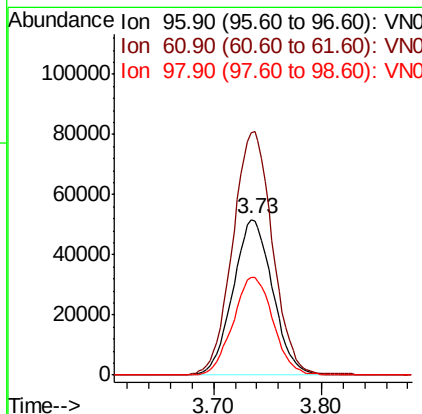
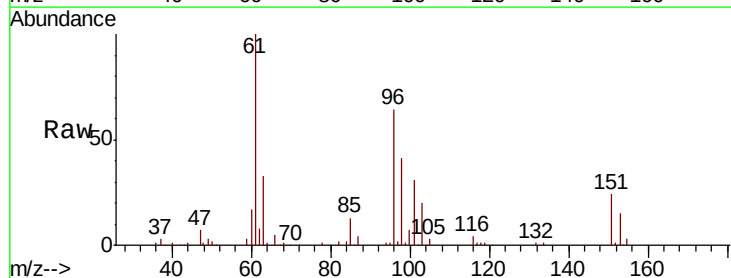
MMDadoda
 8/15/2018 3:21:04 PM

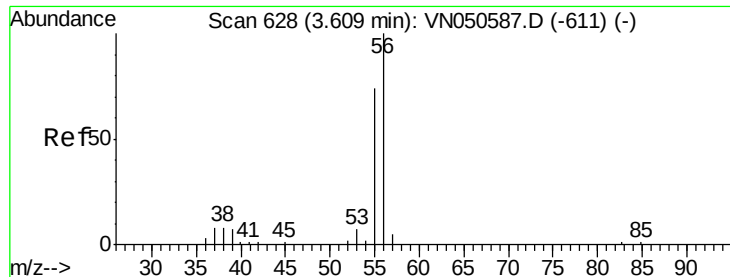


#12

1,1-Dichloroethene
 Concen: 19.32 ug/l
 RT: 3.73 min Scan# 667
 Delta R.T. 0.00 min
 Lab File: VN050586.D
 Acq: 14 Aug 2018 00:35

Tgt Ion	96	Resp	132143
Ion Ratio	100	Lower	Upper
61	155.1	126.9	190.3
98	63.0	51.1	76.7





#13

Acrolein

Concen: 23.29 ug/l

RT: 3.61 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN050586.D

Acq: 14 Aug 2018 00:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 56 Resp: 15720

Ion Ratio Lower Upper

56 100

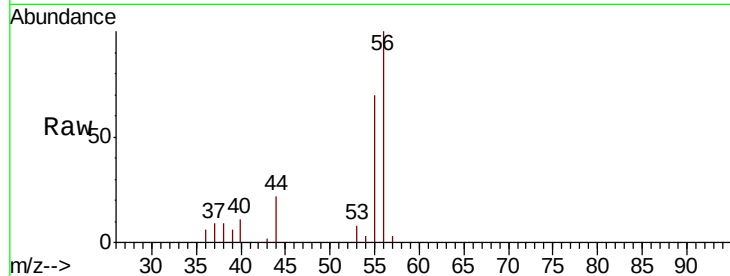
55 73.9 56.3 84.5

Manual Integrations

APPROVED

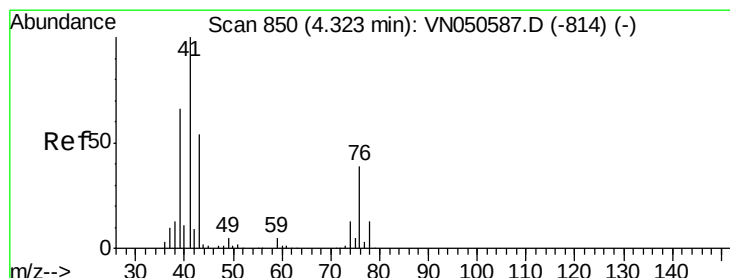
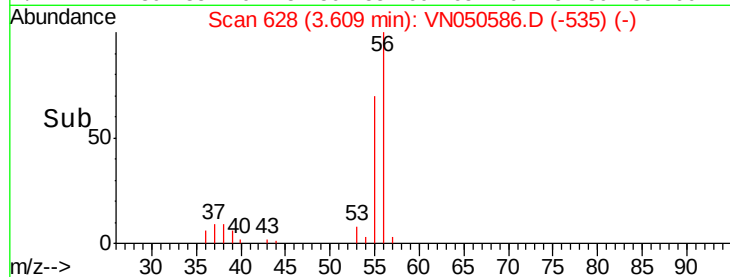
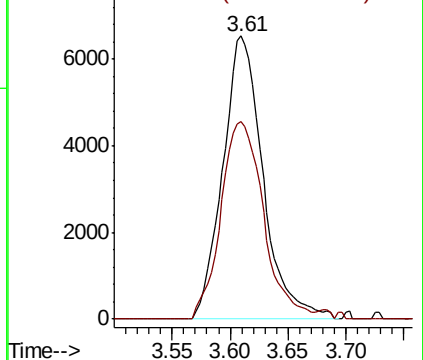
MMDadoda

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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: 18.35 ug/l

RT: 4.32 min Scan# 850

Delta R.T. 0.00 min

Lab File: VN050586.D

Acq: 14 Aug 2018 00:35

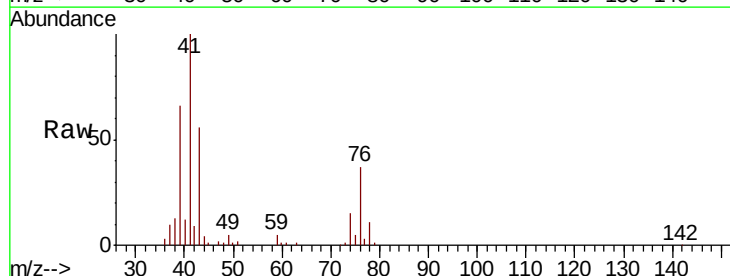
Tgt Ion: 41 Resp: 199972

Ion Ratio Lower Upper

41 100

39 64.8 51.4 77.0

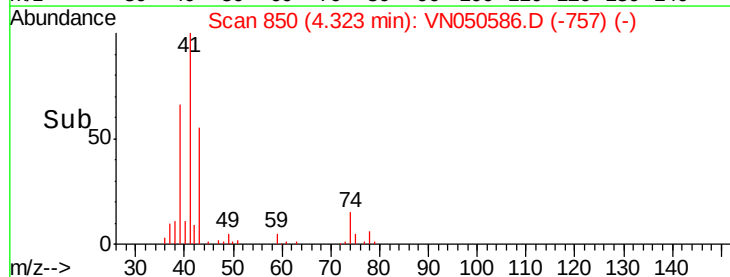
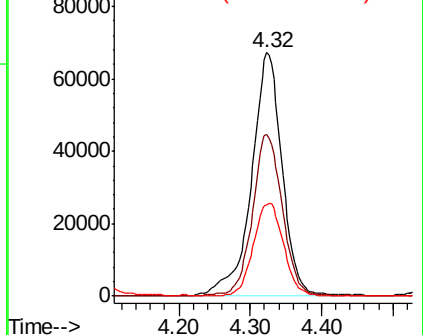
76 37.7 29.4 44.0

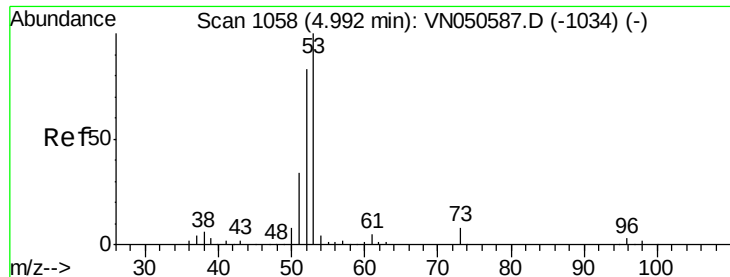


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO





#15

Acrylonitrile

Concen: 84.65 ug/l

RT: 4.99 min Scan# 1057

Delta R.T. -0.00 min

Lab File: VN050586.D

Acq: 14 Aug 2018 00:35

Instrument :

MSVOA_N

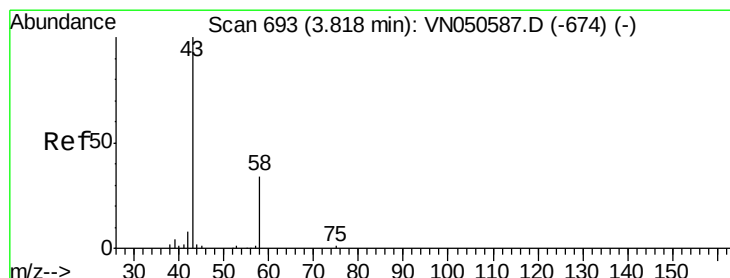
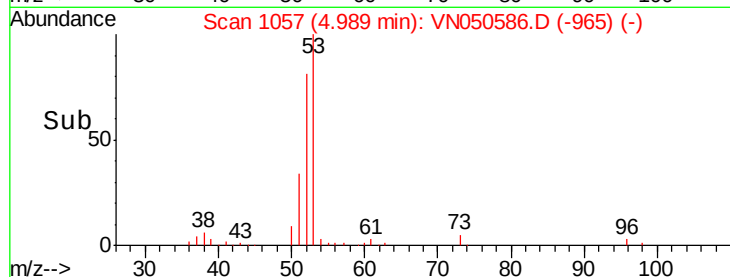
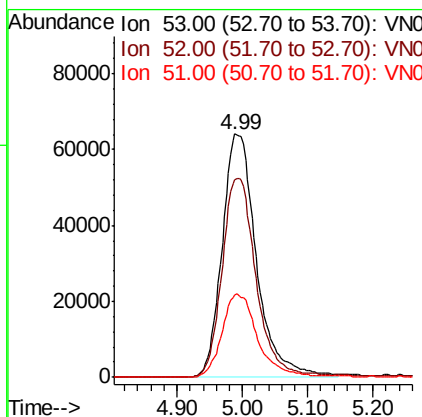
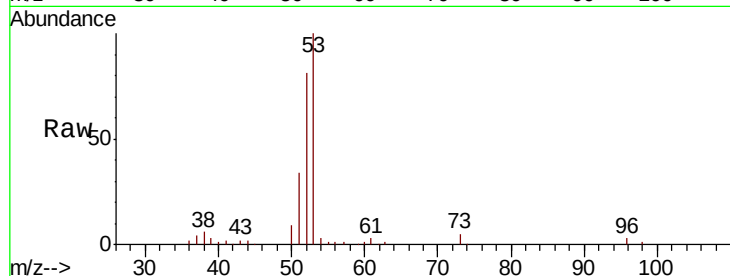
ClientSampleId :

VSTDIC020

Tot Ion:	53	Resp:	234570
Ion	Ratio	Lower	Upper
53	100		
52	81.1	66.2	99.2
51	35.4	28.6	43.0

Manual Integrations
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MMDadoda
8/15/2018 3:21:04 PM



#16

Acetone

Concen: 76.11 ug/l

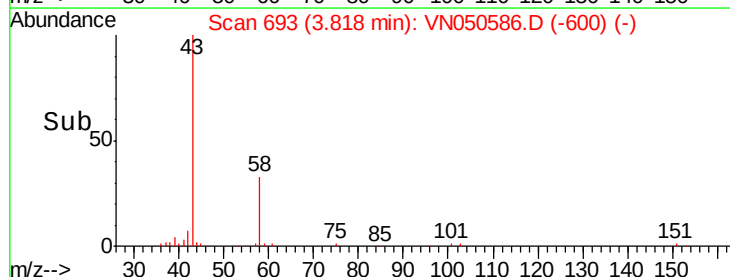
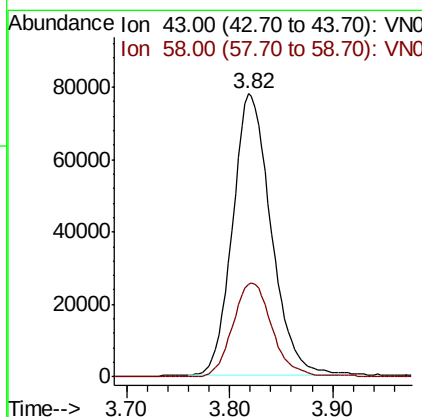
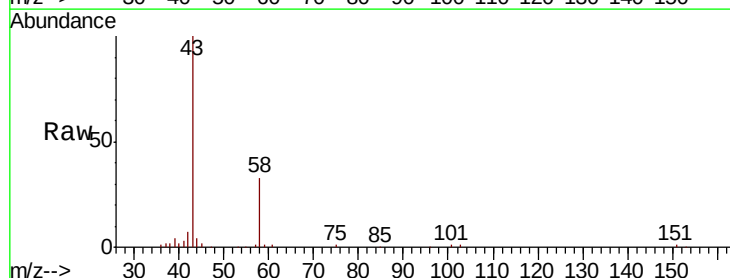
RT: 3.82 min Scan# 693

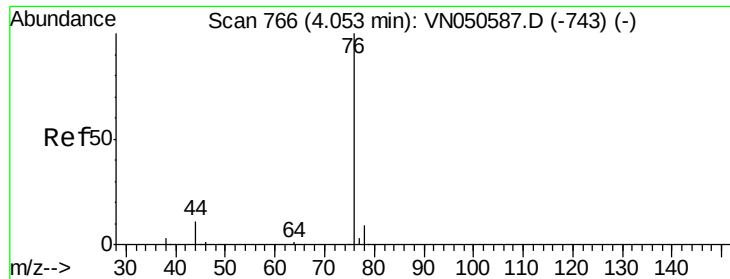
Delta R.T. 0.00 min

Lab File: VN050586.D

Acq: 14 Aug 2018 00:35

Tgt Ion:	43	Resp:	201240
Ion	Ratio	Lower	Upper
43	100		
58	32.9	27.1	40.7





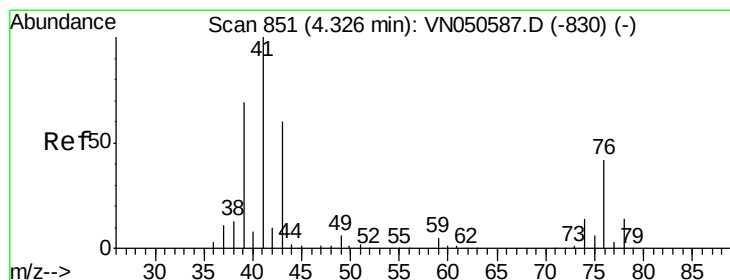
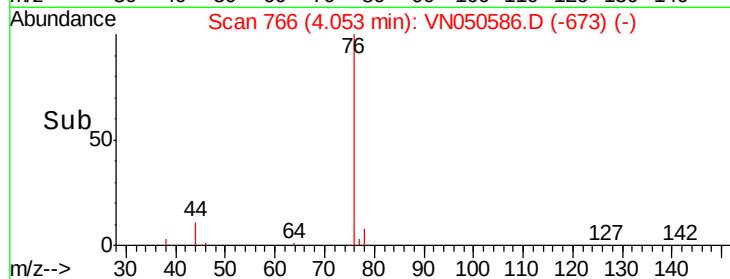
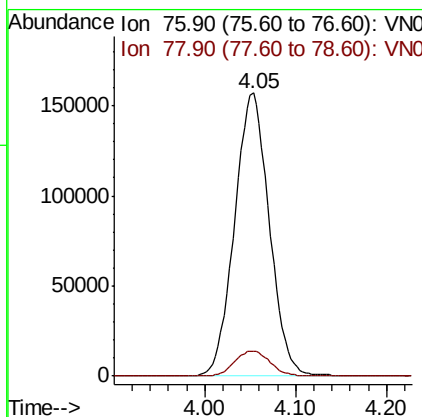
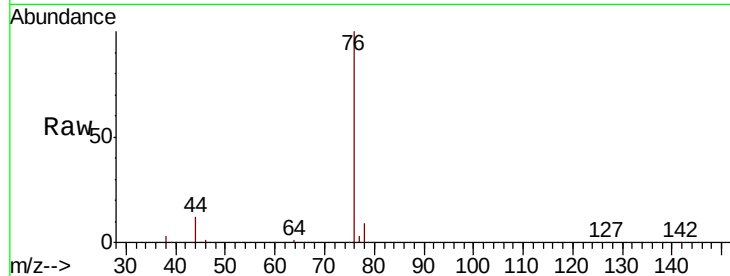
#17
Carbon Disulfide
Concen: 18.72 ug/l
RT: 4.05 min Scan# 766
Delta R.T. 0.00 min
Lab File: VN050586.D
Acq: 14 Aug 2018 00:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.3	10.9

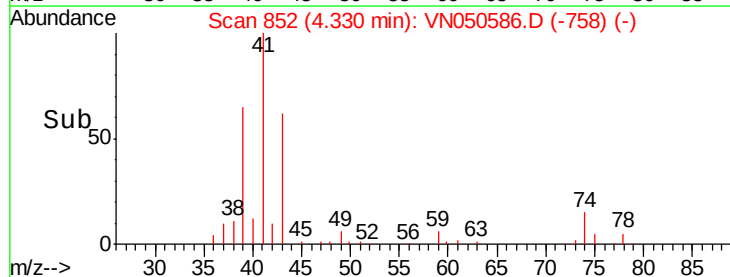
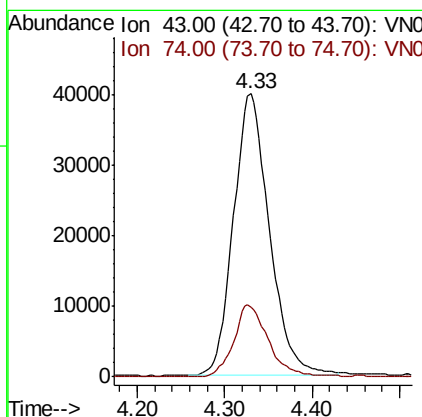
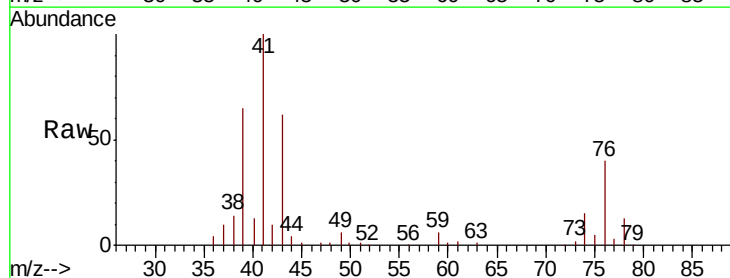
Manual Integrations
APPROVED

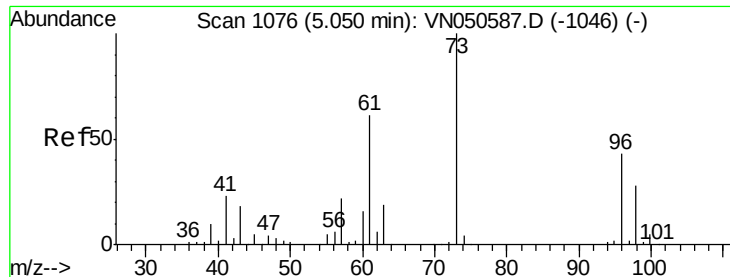
MMDadoda
8/15/2018 3:21:04 PM



#18
Methyl Acetate
Concen: 15.15 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN050586.D
Acq: 14 Aug 2018 00:35

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.4	19.7	29.5





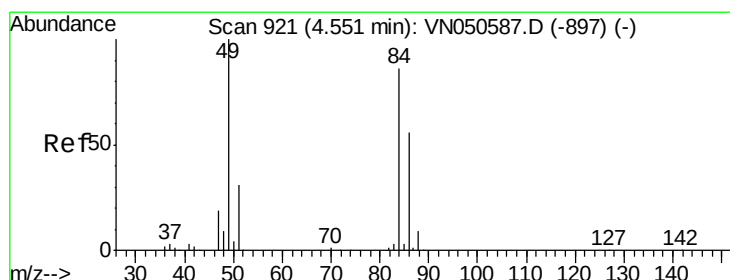
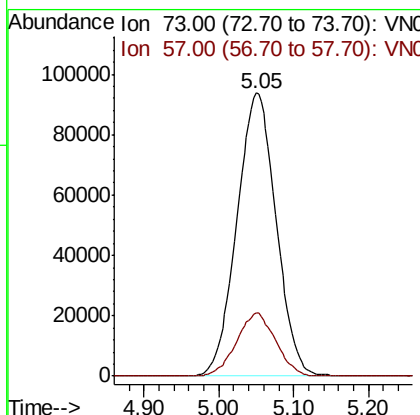
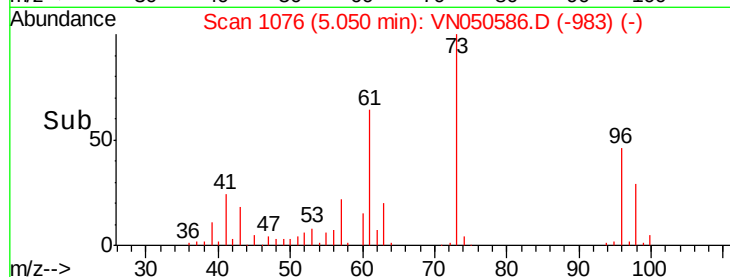
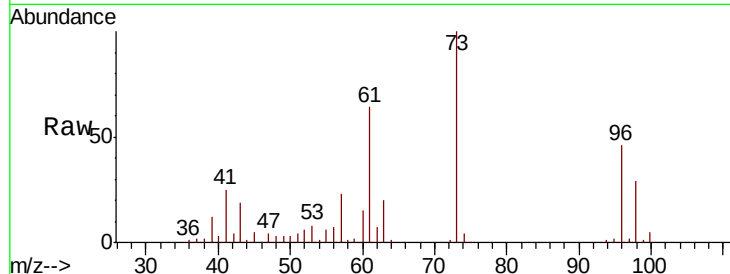
#19
Methvl tert-butvl Ether
Concen: 17.89 ug/l
RT: 5.05 min Scan# 1076
Delta R.T. 0.00 min
Lab File: VN050586.D
Acq: 14 Aug 2018 00:35

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion: 73 Resp: 341293
Ion Ratio Lower Upper
73 100
57 22.5 17.9 26.9

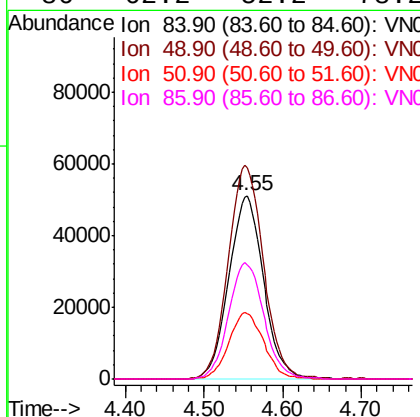
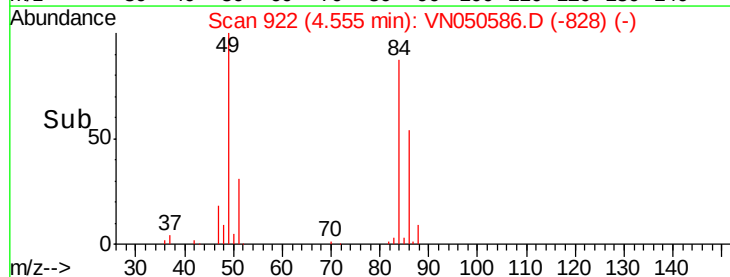
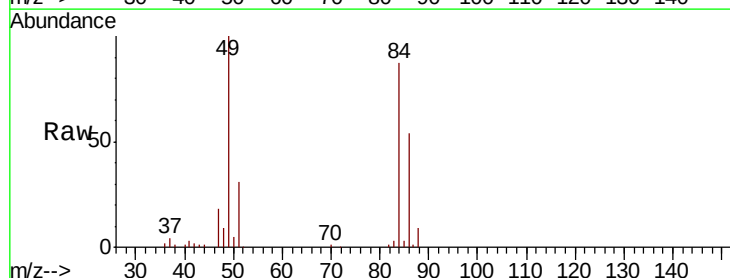
Manual Integrations
APPROVED

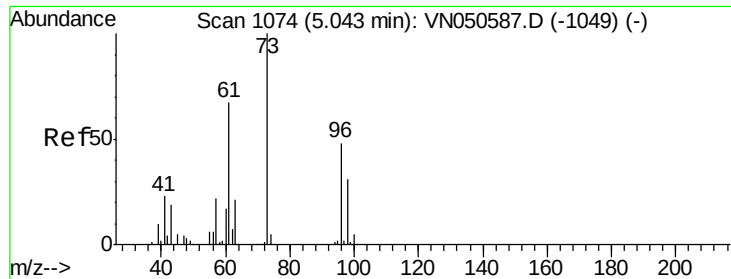
MMDadoda
8/15/2018 3:21:04 PM



#20
Methylene Chloride
Concen: 16.67 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050586.D
Acq: 14 Aug 2018 00:35

Tgt Ion: 84 Resp: 156921
Ion Ratio Lower Upper
84 100
49 114.8 92.6 138.8
51 35.6 28.6 43.0
86 62.2 52.2 78.2





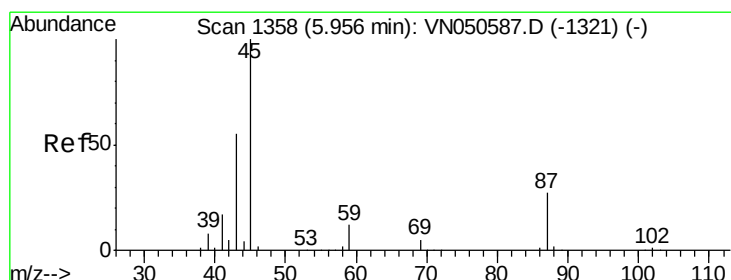
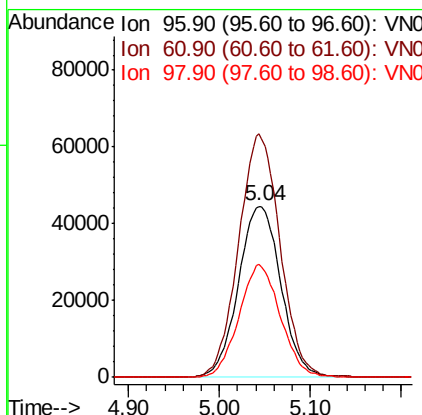
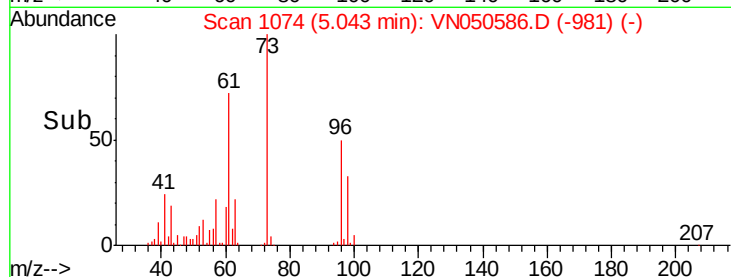
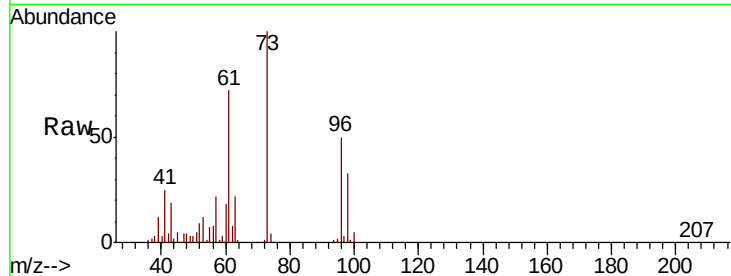
#21
trans-1,2-Dichloroethene
Concen: 19.52 ug/l
RT: 5.04 min Scan# 1074
Delta R.T. 0.00 min
Lab File: VN050586.D
Acq: 14 Aug 2018 00:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
96	100		
61	142.2	111.2	166.8
98	66.1	51.6	77.4

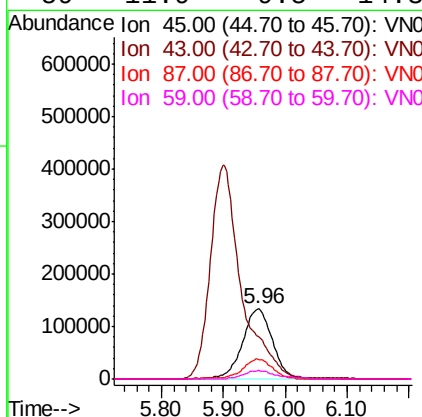
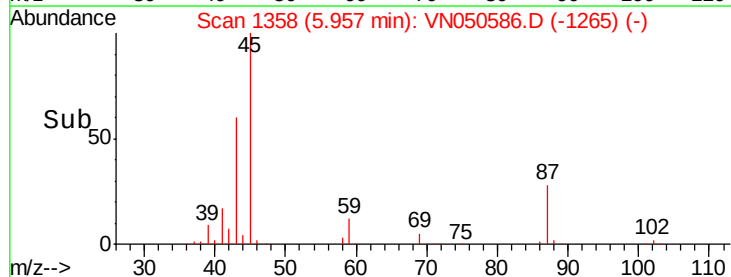
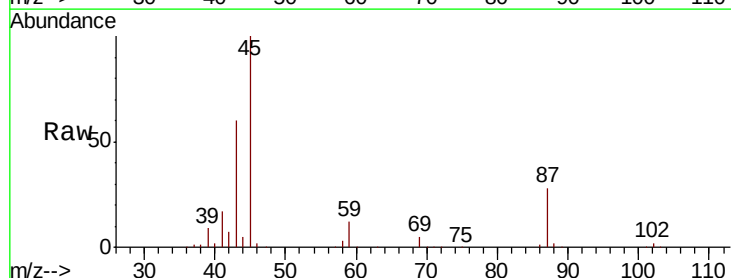
Manual Integrations
APPROVED

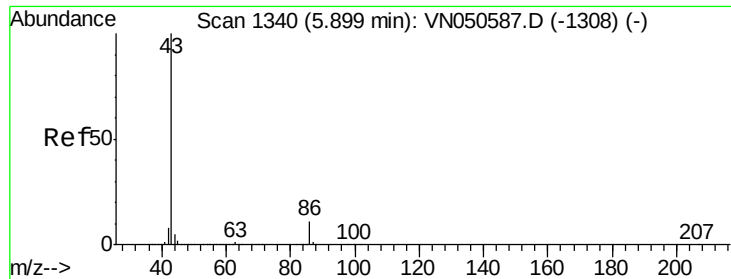
MMDadoda
8/15/2018 3:21:04 PM



#22
Diisopropyl ether
Concen: 20.03 ug/l
RT: 5.96 min Scan# 1358
Delta R.T. 0.00 min
Lab File: VN050586.D
Acq: 14 Aug 2018 00:35

Tgt Ion	Ratio	Lower	Upper
45	100		
43	58.8	44.5	66.7
87	27.9	22.2	33.2
59	11.9	9.5	14.3





#23

Vinyl Acetate

Concen: 90.34 ug/l

RT: 5.90 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VN050586.D

Acq: 14 Aug 2018 00:35

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 43 Resp: 1418319

Ion Ratio Lower Upper

43 100

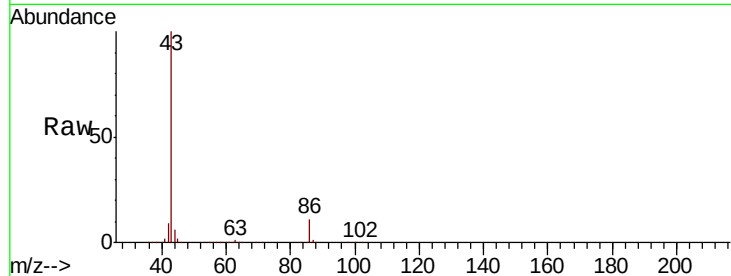
86 10.8 8.4 12.6

Manual Integrations

APPROVED

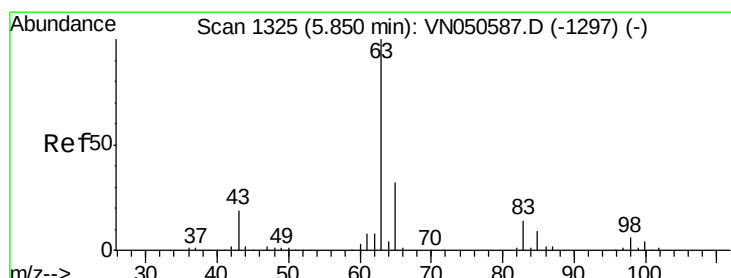
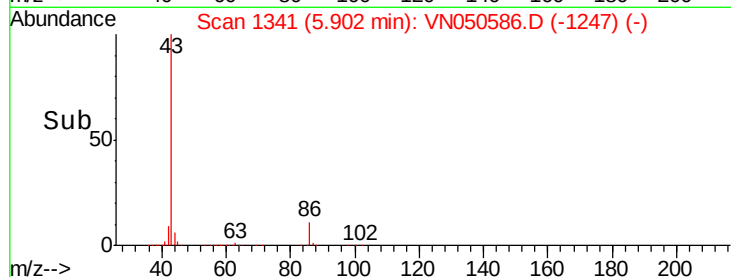
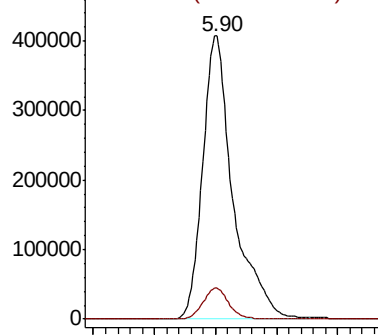
MMDadoda

8/15/2018 3:21:04 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 19.69 ug/l

RT: 5.85 min Scan# 1326

Delta R.T. 0.00 min

Lab File: VN050586.D

Acq: 14 Aug 2018 00:35

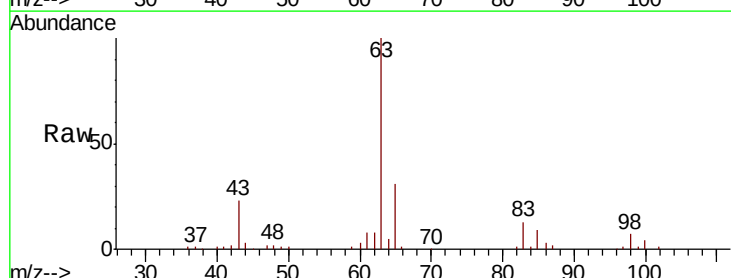
Tgt Ion: 63 Resp: 270981

Ion Ratio Lower Upper

63 100

98 6.9 3.2 9.6

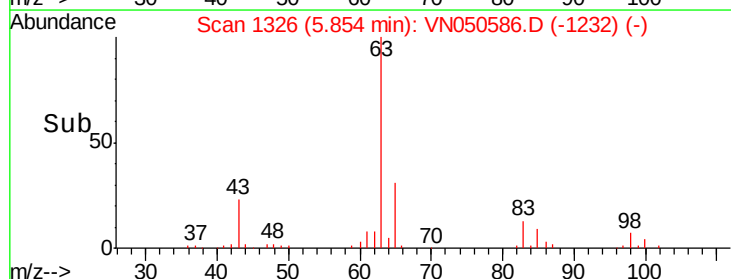
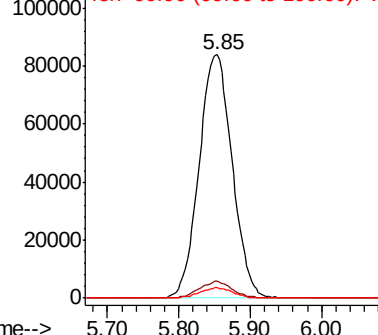
100 4.3 2.1 6.5

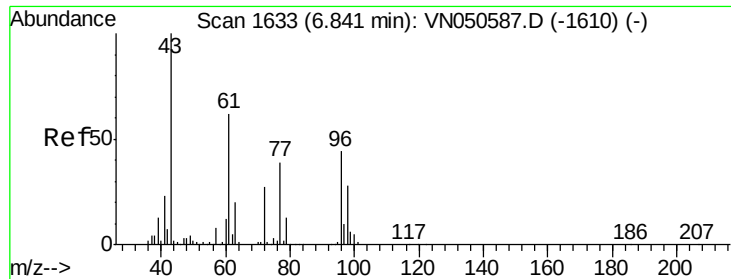


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





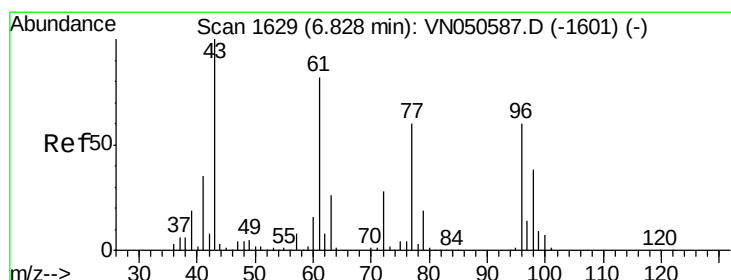
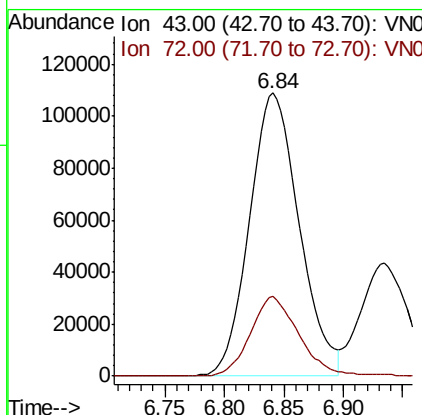
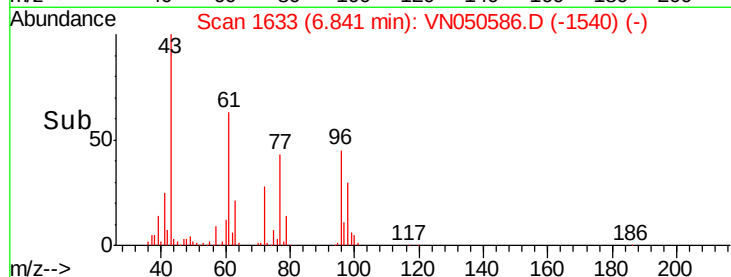
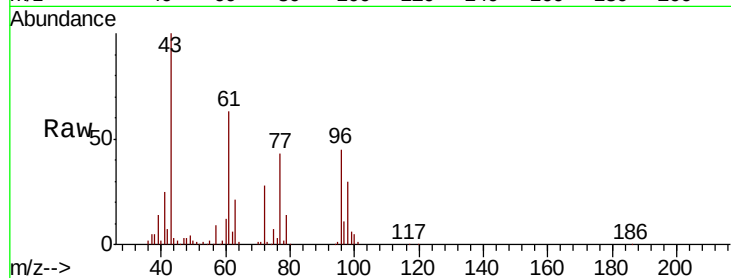
#25
 2-Butanone
 Concen: 78.52 ug/l
 RT: 6.84 min Scan# 1633
 Delta R.T. 0.00 min
 Lab File: VN050586.D
 Acq: 14 Aug 2018 00:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion: 43 Resp: 316027
 Ion Ratio Lower Upper
 43 100
 72 28.0 21.8 32.6

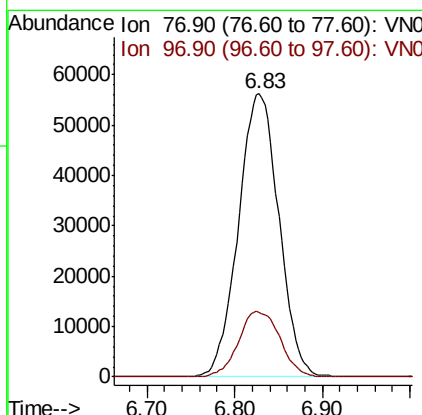
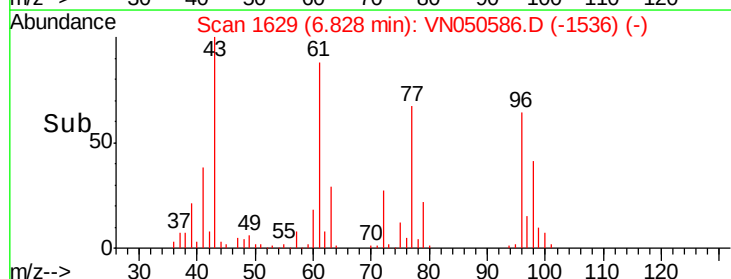
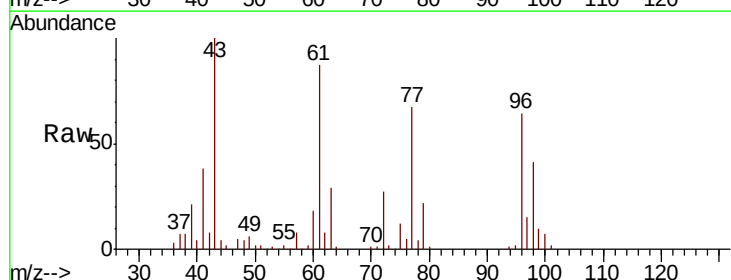
Manual Integrations
 APPROVED

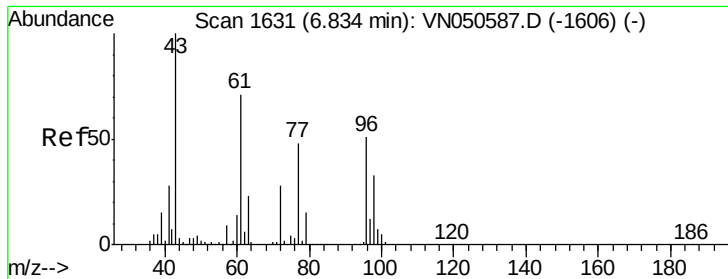
MMDadoda
 8/15/2018 3:21:04 PM



#26
 2,2-Dichloropropane
 Concen: 16.39 ug/l
 RT: 6.83 min Scan# 1629
 Delta R.T. 0.00 min
 Lab File: VN050586.D
 Acq: 14 Aug 2018 00:35

Tgt Ion: 77 Resp: 180288
 Ion Ratio Lower Upper
 77 100
 97 23.8 12.2 36.4





#27

cis-1,2-Dichloroethene

Concen: 19.52 ug/l

RT: 6.83 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VN050586.D

Acq: 14 Aug 2018 00:35

Instrument :

MSVOA_N

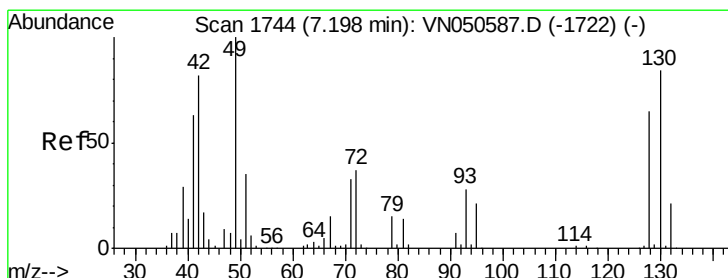
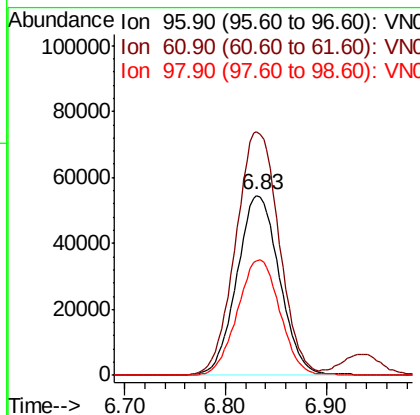
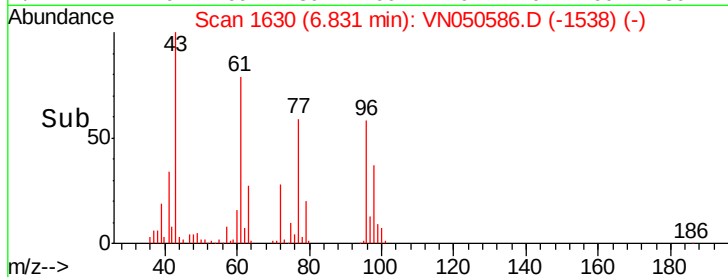
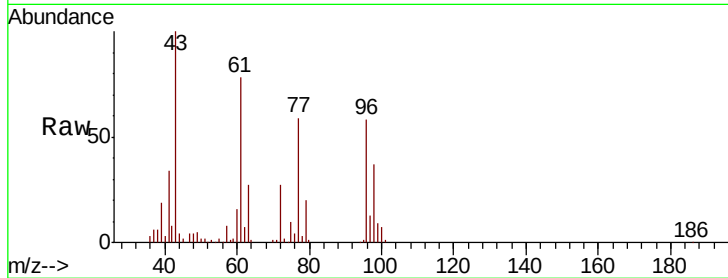
ClientSampleId :

VSTDIC020

Tot Ion:	96	Resp:	159802
Ion Ratio	Lower	Upper	
96	100		
61	138.3	0.0	278.2
98	64.2	0.0	128.8

Manual Integrations
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#28

Bromochloromethane

Concen: 20.65 ug/l

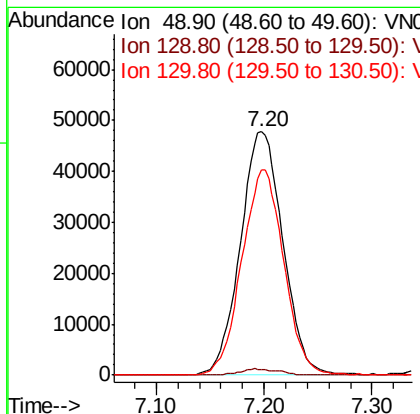
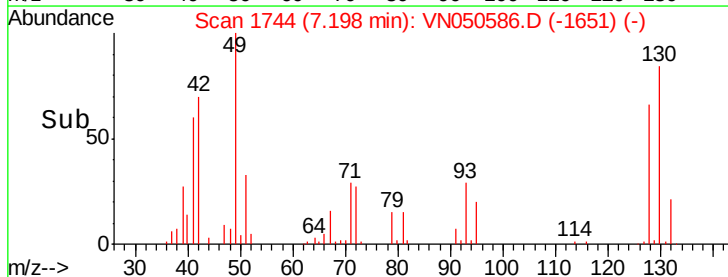
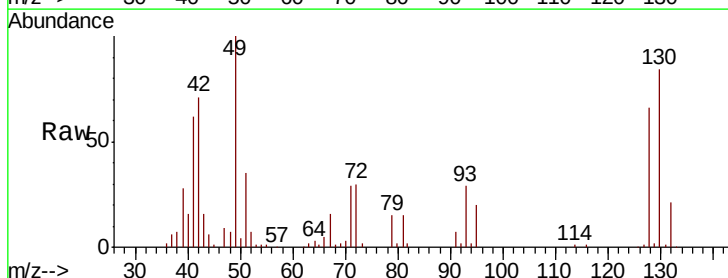
RT: 7.20 min Scan# 1744

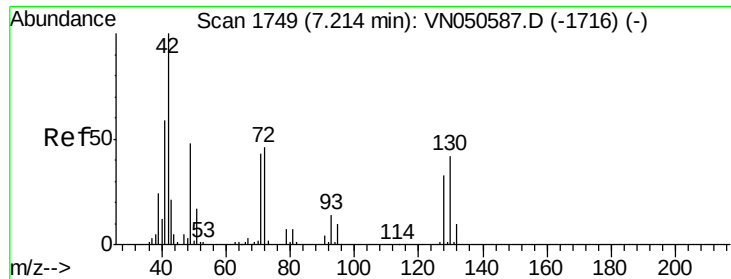
Delta R.T. 0.00 min

Lab File: VN050586.D

Acq: 14 Aug 2018 00:35

Tgt Ion:	49	Resp:	130974
Ion Ratio	Lower	Upper	
49	100		
129	2.3	0.0	4.2
130	83.1	66.8	100.2





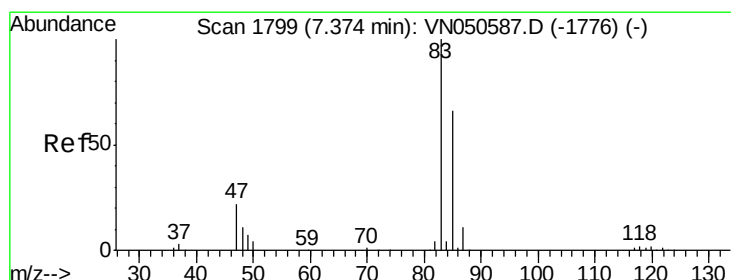
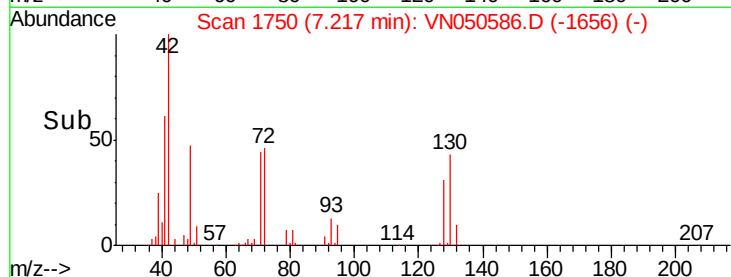
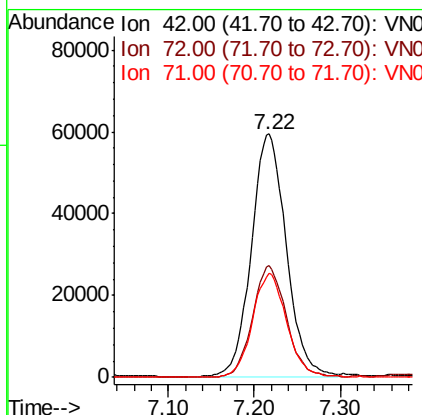
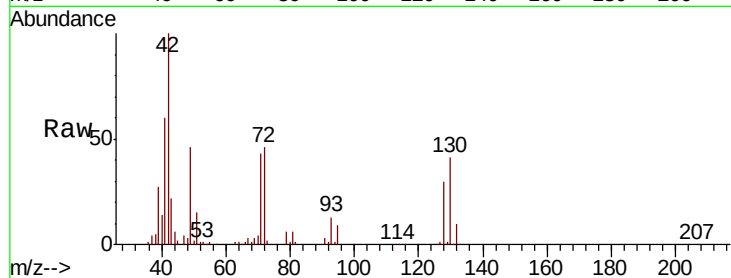
#29
Tetrahydrofuran
Concen: 77.64 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. 0.00 min
Lab File: VN050586.D
Acq: 14 Aug 2018 00:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.6	35.8	53.6
71	42.0	33.4	50.0

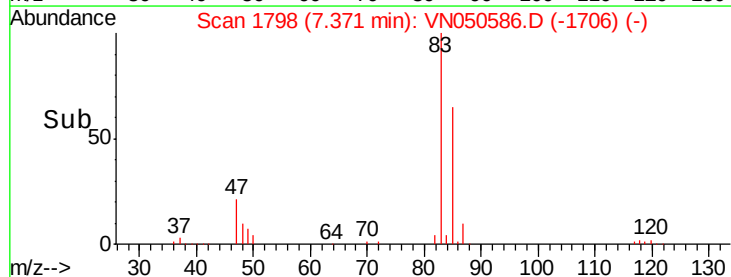
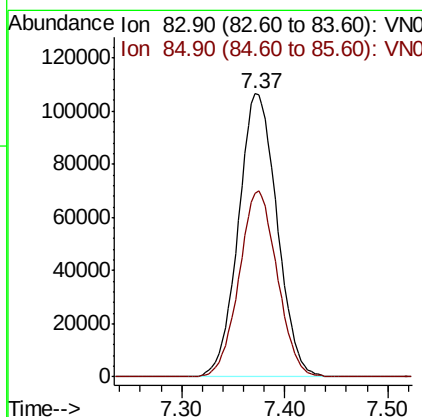
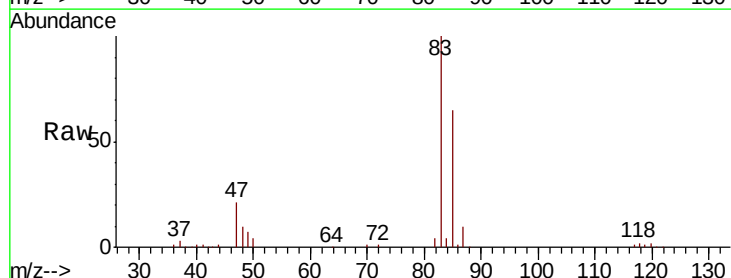
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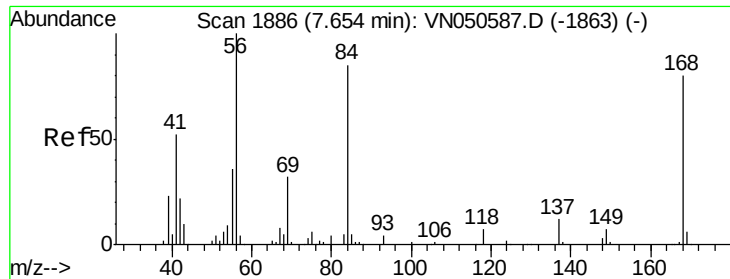
MMDadoda
8/15/2018 3:21:04 PM



#30
Chloroform
Concen: 20.18 ug/l
RT: 7.37 min Scan# 1798
Delta R.T. -0.00 min
Lab File: VN050586.D
Acq: 14 Aug 2018 00:35

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.9	52.5	78.7





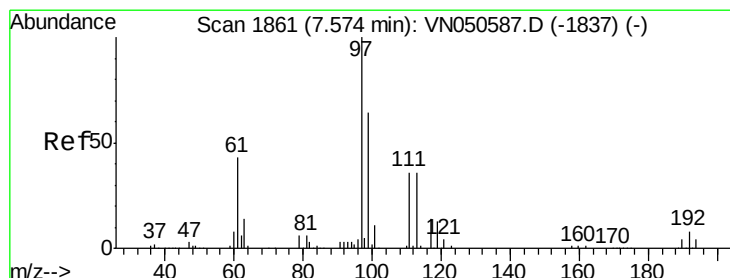
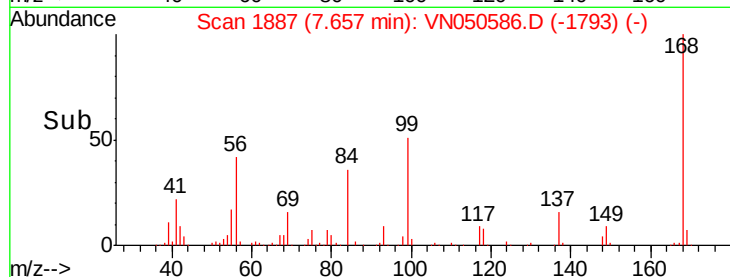
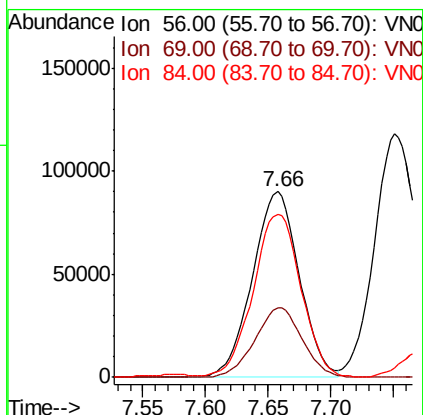
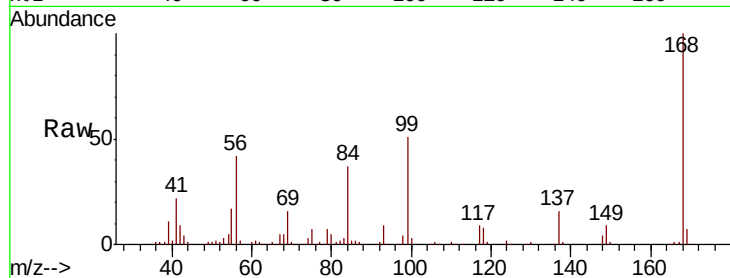
#31
Cyclohexane
Concen: 17.05 ug/l
RT: 7.66 min Scan# 1887
Delta R.T. 0.00 min
Lab File: VN050586.D
Acq: 14 Aug 2018 00:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
56	100		
69	37.3	25.8	38.6
84	86.4	67.8	101.6

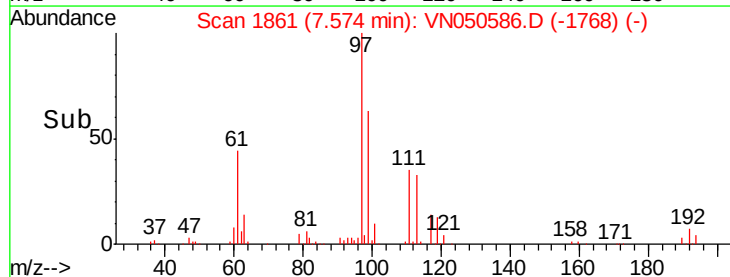
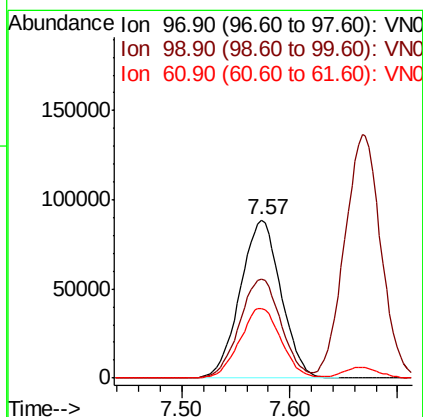
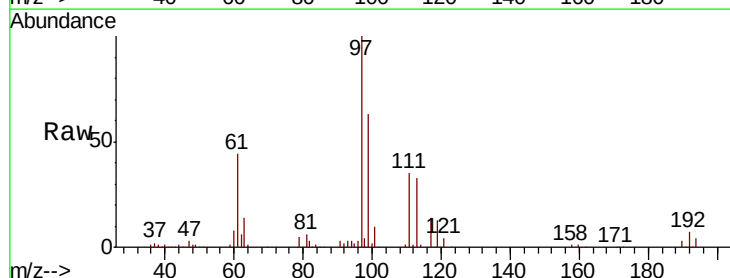
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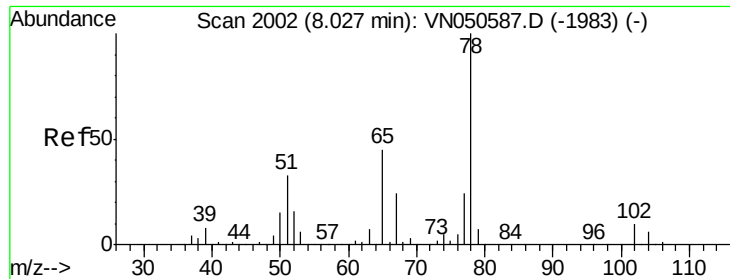
MMDadoda
8/15/2018 3:21:04 PM



#32
1,1,1-Trichloroethane
Concen: 19.71 ug/l
RT: 7.57 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VN050586.D
Acq: 14 Aug 2018 00:35

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.1	76.7
61	44.7	34.8	52.2





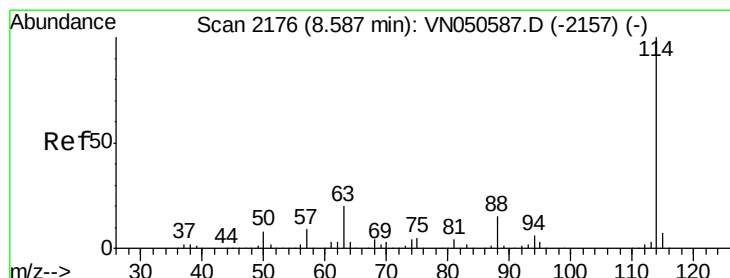
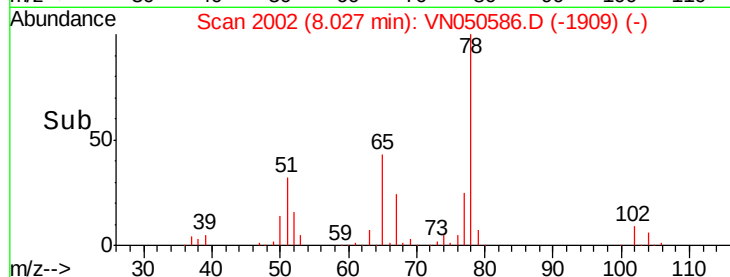
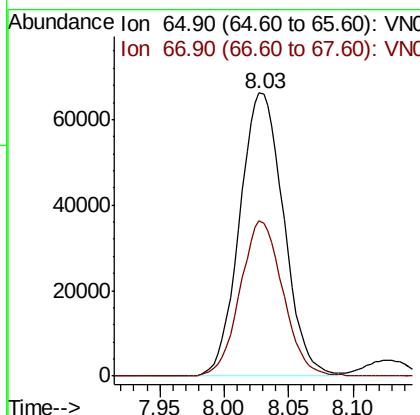
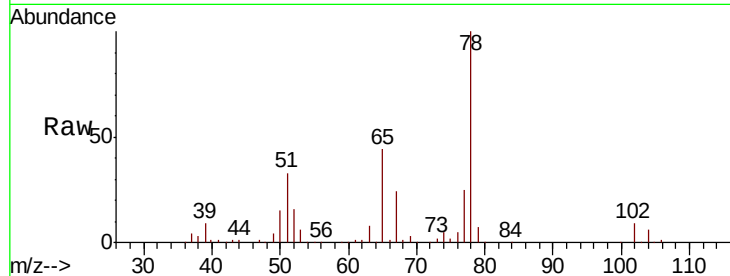
#33
 1,2-Dichloroethane-d4
 Concen: 18.74 ug/l
 RT: 8.03 min Scan# 2002
 Delta R.T. 0.00 min
 Lab File: VN050586.D
 Acq: 14 Aug 2018 00:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
65	100	157329		
67	53.5	0.0	109.8	

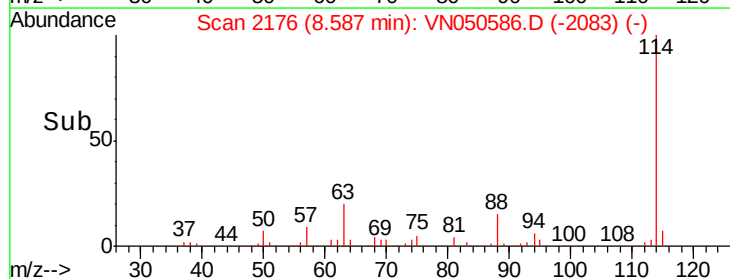
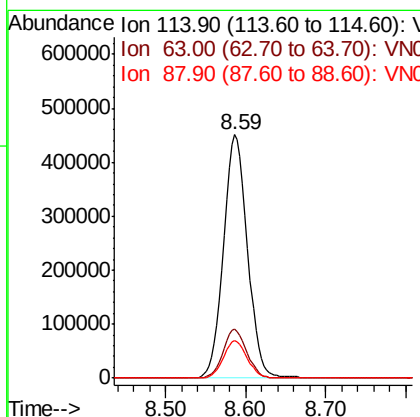
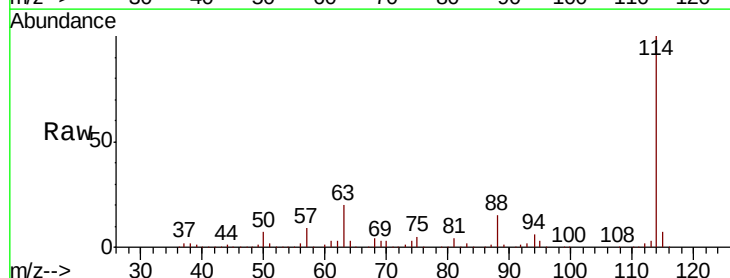
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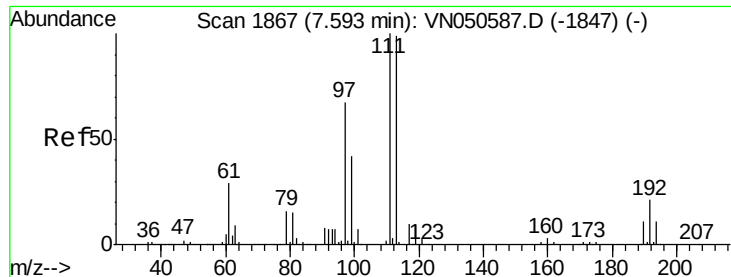
MMDadoda
 8/15/2018 3:21:04 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN050586.D
 Acq: 14 Aug 2018 00:35

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	929429		
63	19.9	0.0	40.0	
88	15.3	0.0	30.8	





#35

Dibromofluoromethane

Concen: 19.25 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN050586.D

Acq: 14 Aug 2018 00:35

Instrument :

MSVOA_N

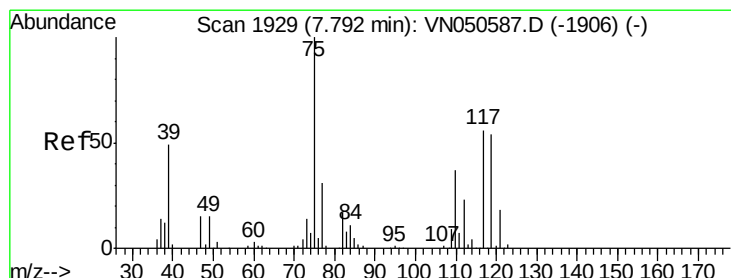
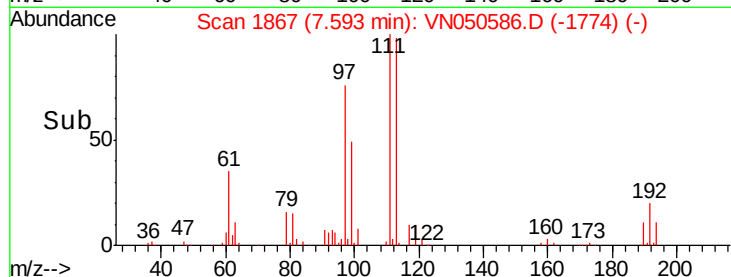
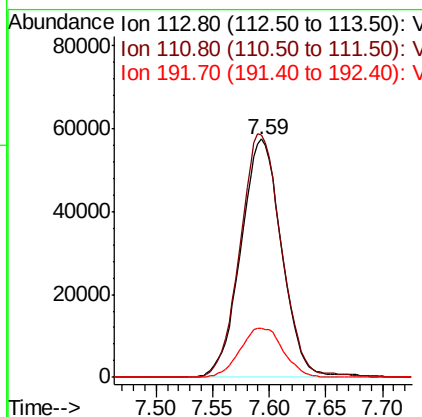
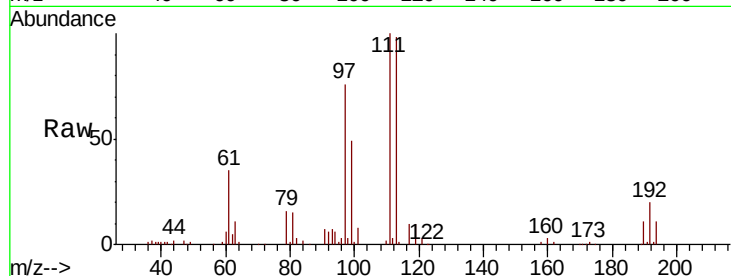
ClientSampled :

VSTDIC020

Tot Ion:	113	Resp:	143750
Ion Ratio	Lower	Upper	
113	100		
111	103.9	81.0	121.6
192	21.8	17.6	26.4

Manual Integrations
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8/15/2018 3:21:04 PM



#36

1,1-Dichloropropene

Concen: 20.03 ug/l

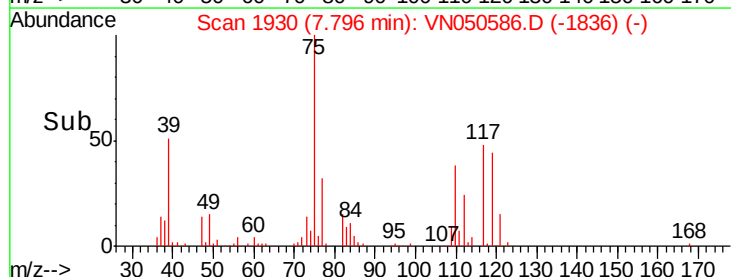
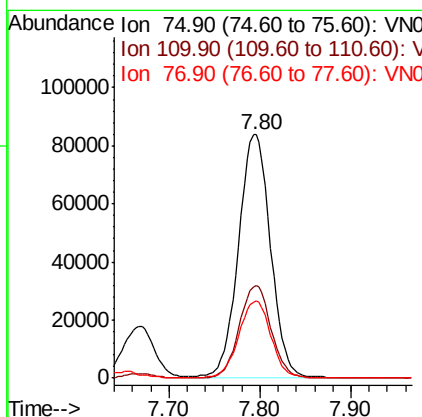
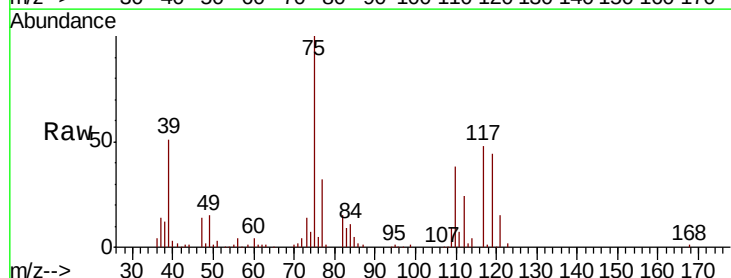
RT: 7.80 min Scan# 1930

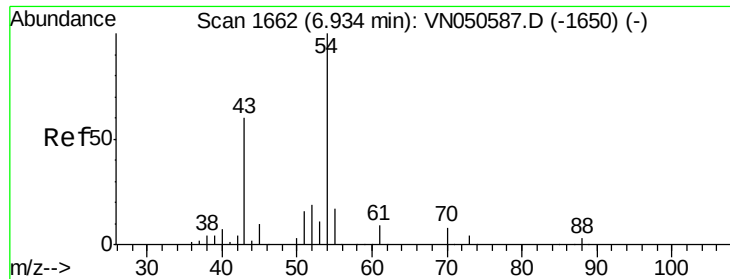
Delta R.T. 0.00 min

Lab File: VN050586.D

Acq: 14 Aug 2018 00:35

Tgt Ion:	75	Resp:	204286
Ion Ratio	Lower	Upper	
75	100		
110	37.7	18.3	54.9
77	32.1	25.0	37.4





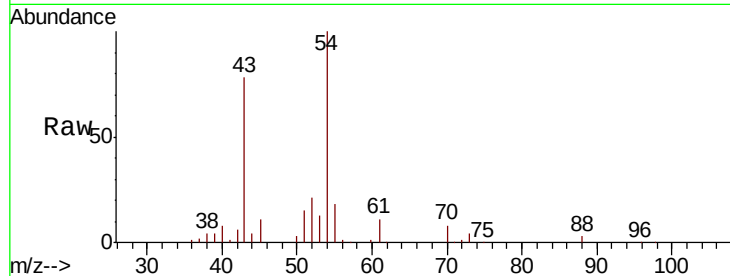
#37
Ethyl Acetate
Concen: 16.85 ug/l
RT: 6.93 min Scan# 1662
Delta R.T. 0.00 min
Lab File: VN050586.D
Acq: 14 Aug 2018 00:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.9	12.0	18.0
70	11.0	8.5	12.7

Manual Integrations
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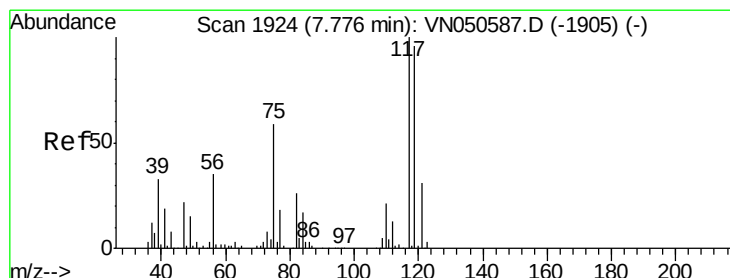
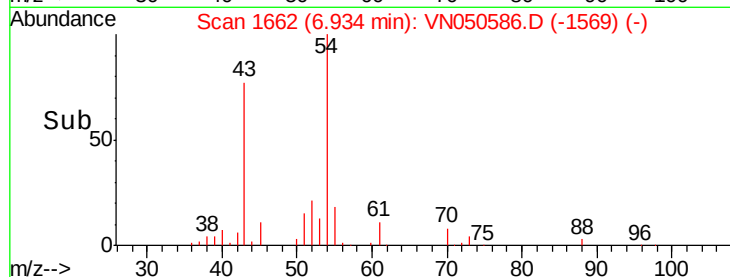
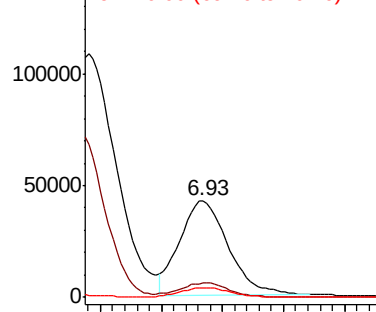


Abundance

Ion 43.00 (42.70 to 43.70): VN050587.D (-1650) (-)

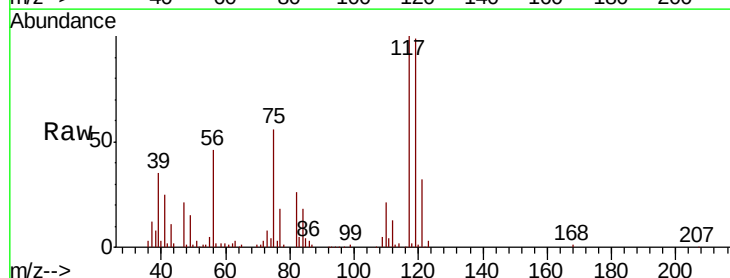
Ion 60.90 (60.60 to 61.60): VN050587.D (-1650) (-)

Ion 70.00 (69.70 to 70.70): VN050587.D (-1650) (-)



#38
Carbon Tetrachloride
Concen: 19.61 ug/l
RT: 7.78 min Scan# 1924
Delta R.T. 0.00 min
Lab File: VN050586.D
Acq: 14 Aug 2018 00:35

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.9	76.6	115.0
121	31.9	25.0	37.6

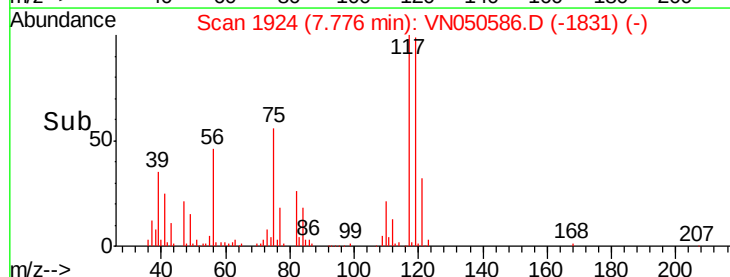
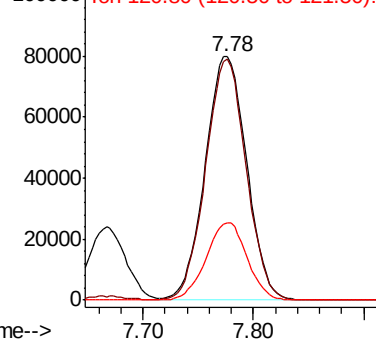


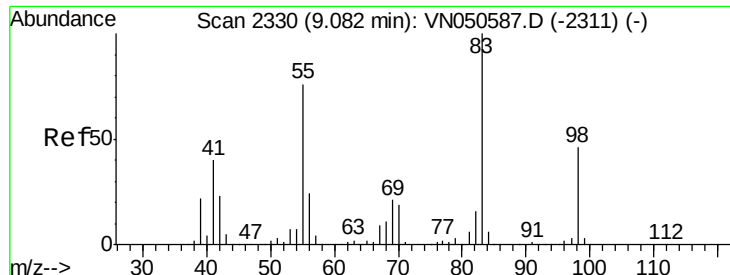
Abundance

Ion 116.80 (116.50 to 117.50): VN050587.D (-1905) (-)

Ion 118.80 (118.50 to 119.50): VN050587.D (-1905) (-)

Ion 120.80 (120.50 to 121.50): VN050587.D (-1905) (-)





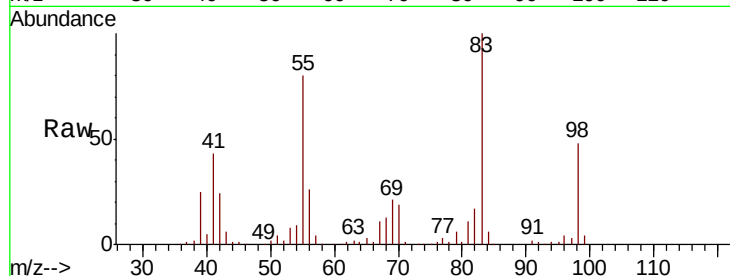
#39
Methylvlcyclohexane
Concen: 18.68 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VN050586.D
Acq: 14 Aug 2018 00:35

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
83	100		
55	80.2	60.6	91.0
98	47.8	37.0	55.4

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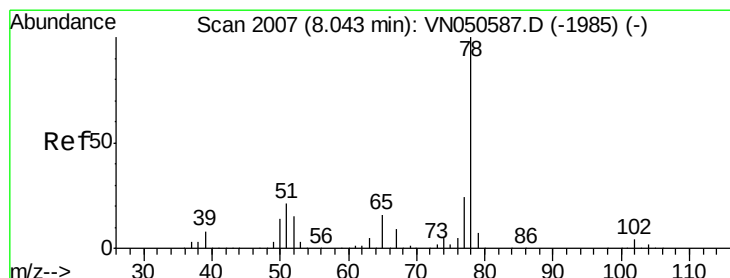
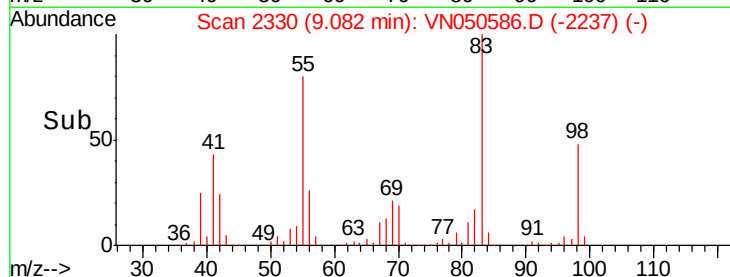
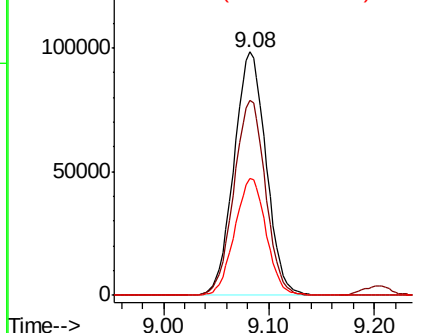


Abundance

Ion 83.00 (82.70 to 83.70): VN0

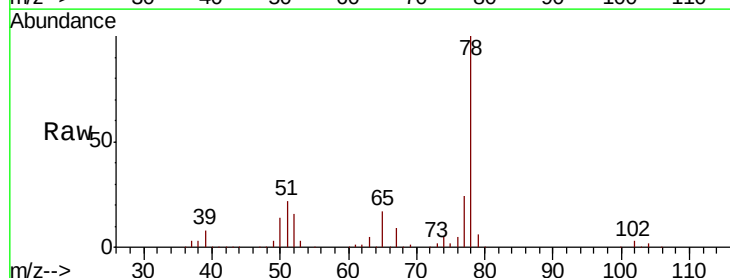
Ion 55.00 (54.70 to 55.70): VN0

Ion 98.00 (97.70 to 98.70): VN0



#40
Benzene
Concen: 20.02 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VN050586.D
Acq: 14 Aug 2018 00:35

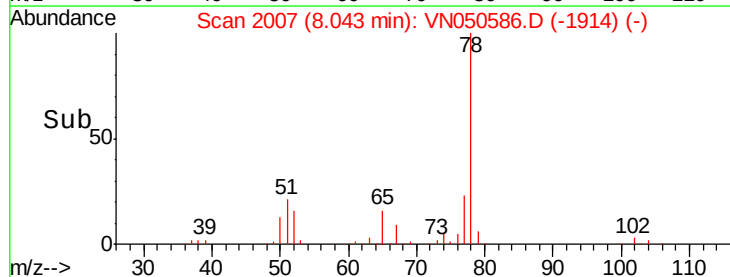
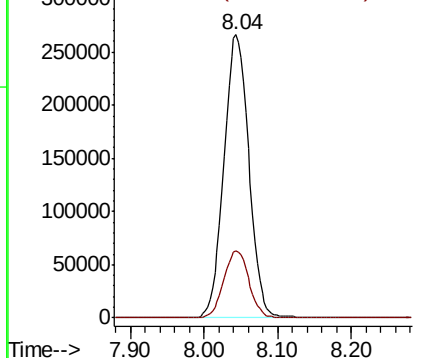
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.0	28.6

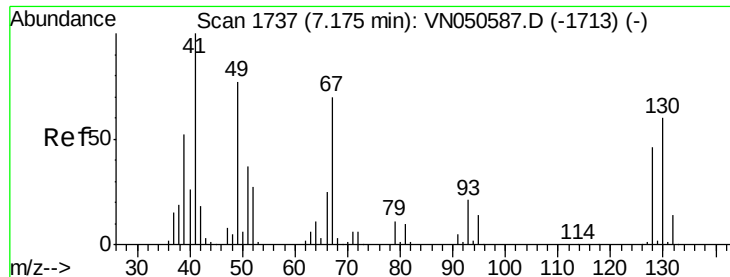


Abundance

Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





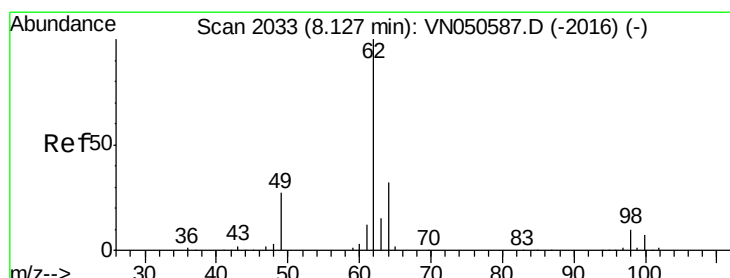
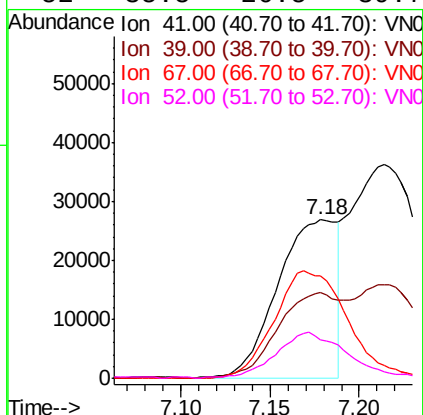
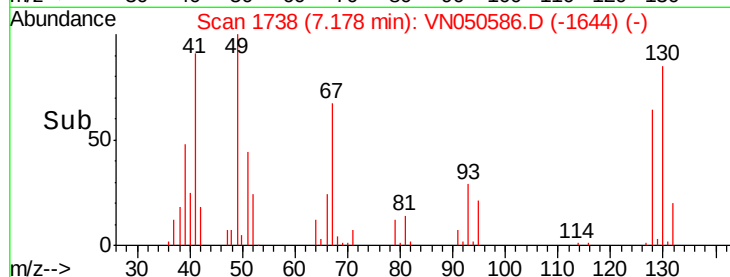
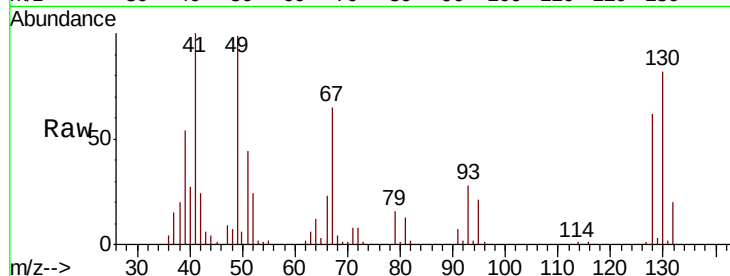
#41
Methacrylonitrile
Concen: 16.41 ug/l
RT: 7.18 min Scan# 1738
Delta R.T. 0.00 min
Lab File: VN050586.D
Acq: 14 Aug 2018 00:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion:	41	Resp:	62543
Ion	Ratio	Lower	Upper
41	100		
39	56.9	44.6	66.8
67	83.8	66.7	100.1
52	35.5	26.5	39.7

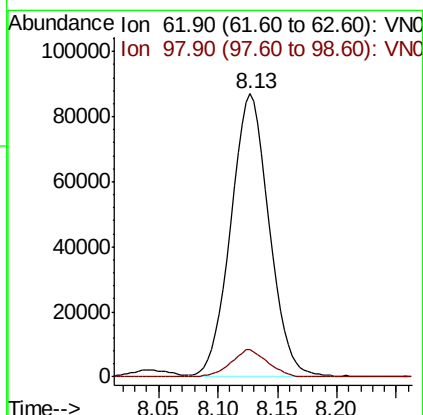
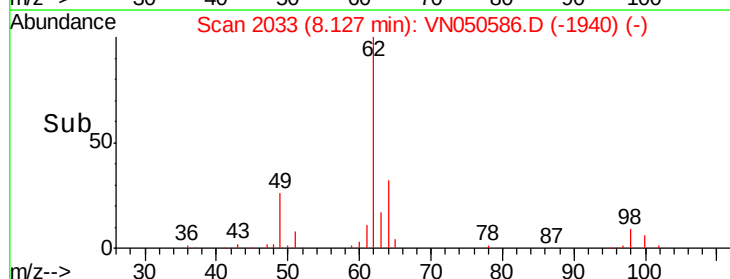
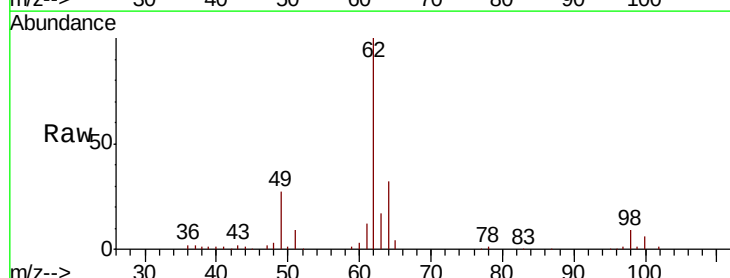
Manual Integrations
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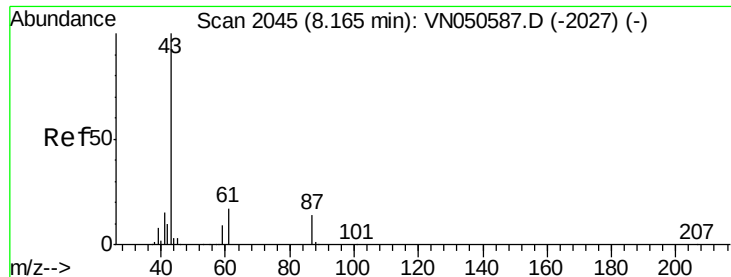
MMDadoda
8/15/2018 3:21:04 PM



#42
1,2-Dichloroethane
Concen: 19.56 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. 0.00 min
Lab File: VN050586.D
Acq: 14 Aug 2018 00:35

Tgt Ion:	62	Resp:	193137
Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	19.4





#43

Isopropyl Acetate

Concen: 17.39 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050586.D

Acq: 14 Aug 2018 00:35

Instrument :

MSVOA_N

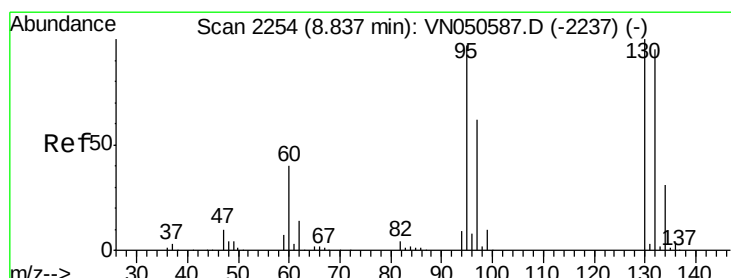
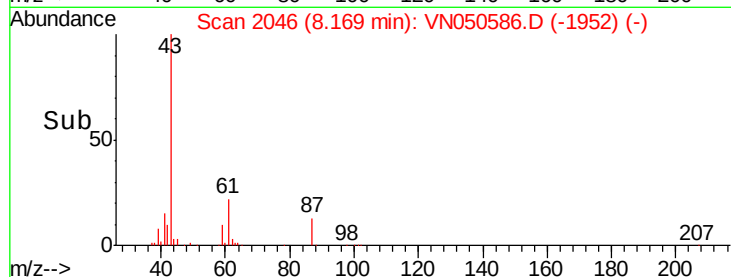
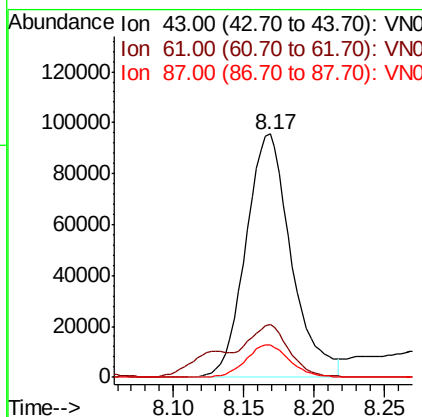
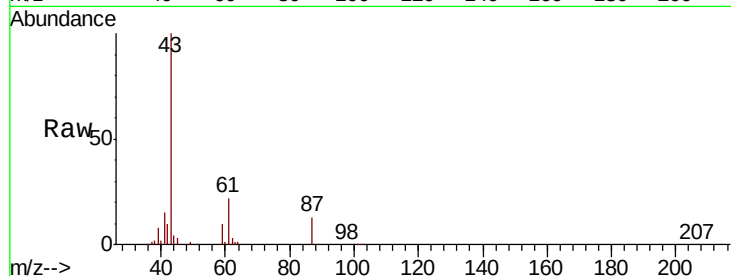
ClientSampleId :

VSTDIC020

Tot Ion:	43	Resp:	214165
Ion	Ratio	Lower	Upper
43	100		
61	19.7	16.2	24.2
87	13.0	10.9	16.3

Manual Integrations
APPROVED

MMDadoda
8/15/2018 3:21:04 PM



#44

Trichloroethene

Concen: 19.43 ug/l

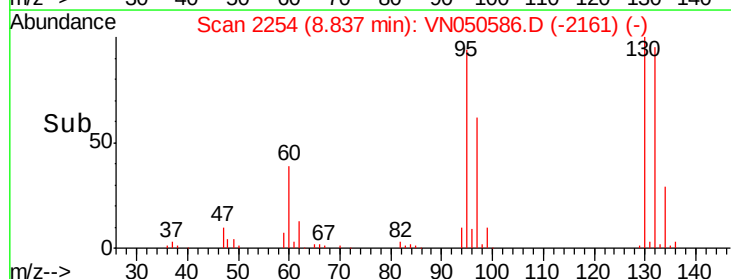
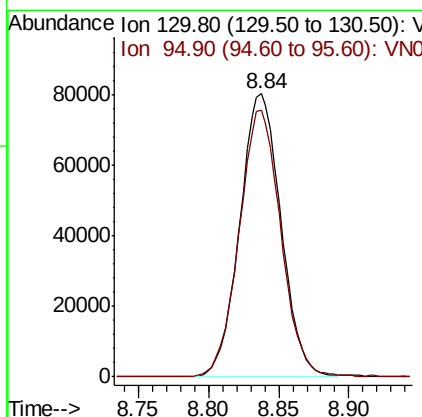
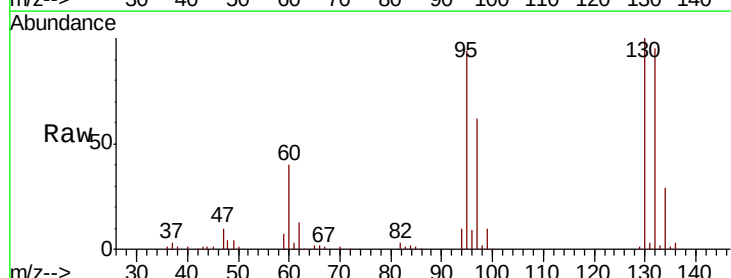
RT: 8.84 min Scan# 2254

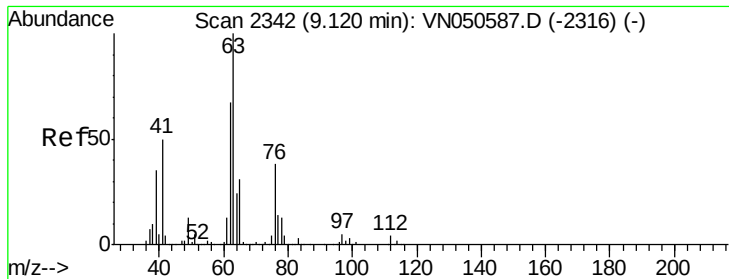
Delta R.T. 0.00 min

Lab File: VN050586.D

Acq: 14 Aug 2018 00:35

Tgt Ion:	130	Resp:	164045
Ion	Ratio	Lower	Upper
130	100		
95	94.4	0.0	193.8





#45

1,2-Dichloropropane

Concen: 20.01 ug/l

RT: 9.12 min Scan# 2342

Delta R.T. 0.00 min

Lab File: VN050586.D

Acq: 14 Aug 2018 00:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 63 Resp: 165100

Ion Ratio Lower Upper

63 100

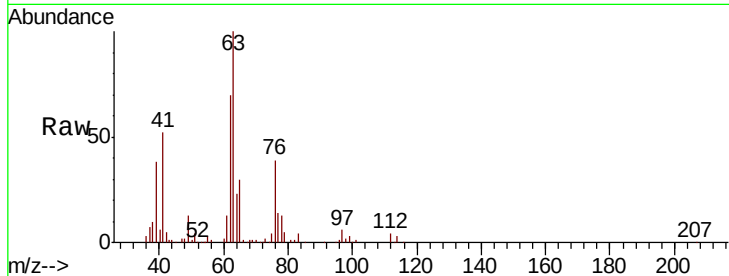
65 30.2 24.5 36.7

Manual Integrations

APPROVED

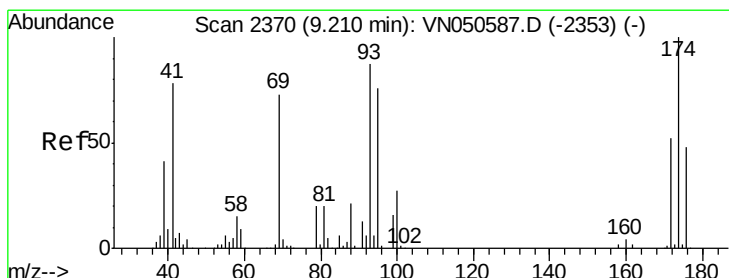
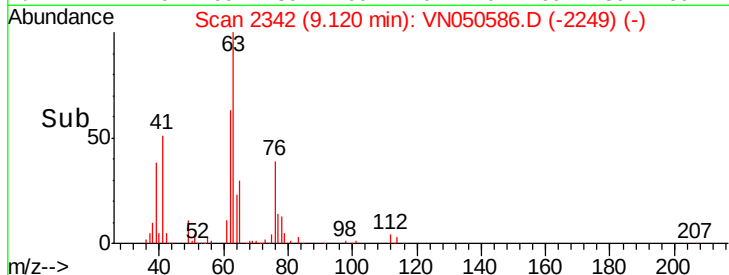
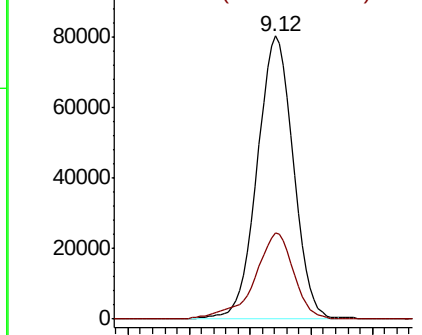
MMDadoda

8/15/2018 3:21:04 PM



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#46

Dibromomethane

Concen: 19.22 ug/l

RT: 9.21 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN050586.D

Acq: 14 Aug 2018 00:35

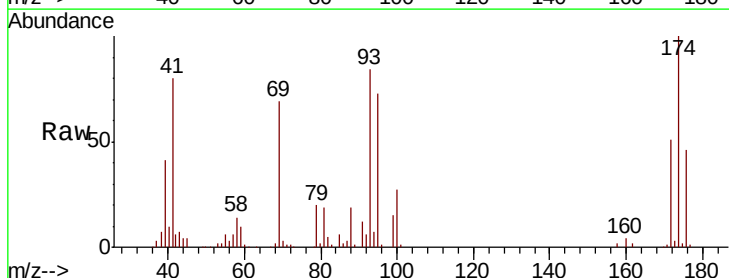
Tgt Ion: 93 Resp: 96860

Ion Ratio Lower Upper

93 100

95 83.4 69.1 103.7

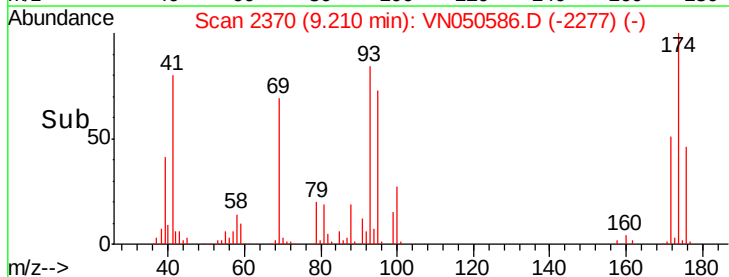
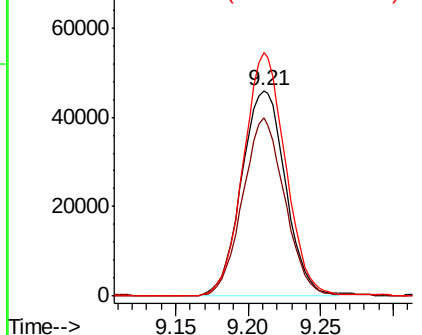
174 113.6 91.0 136.6

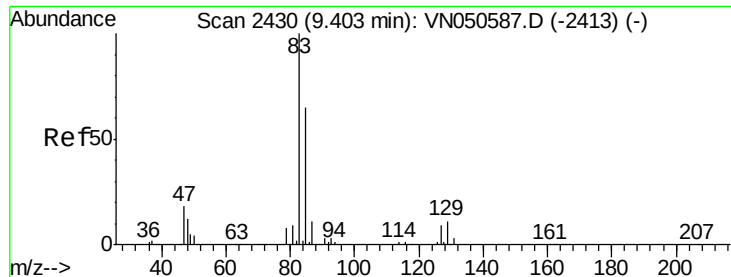


Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V





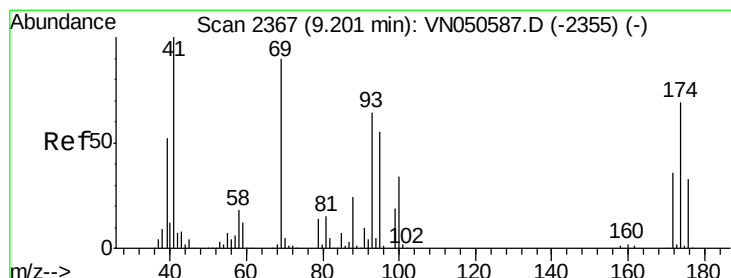
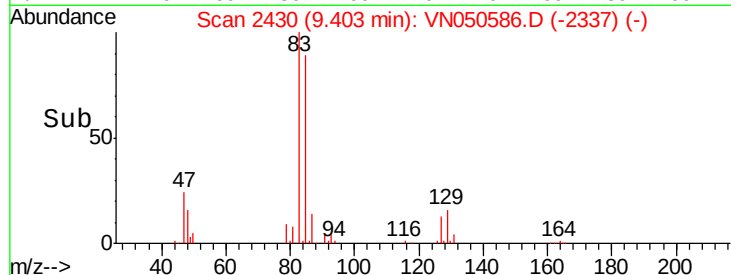
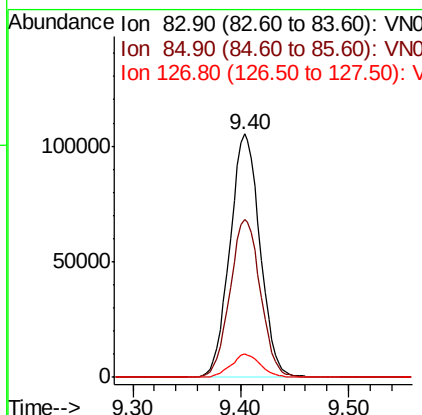
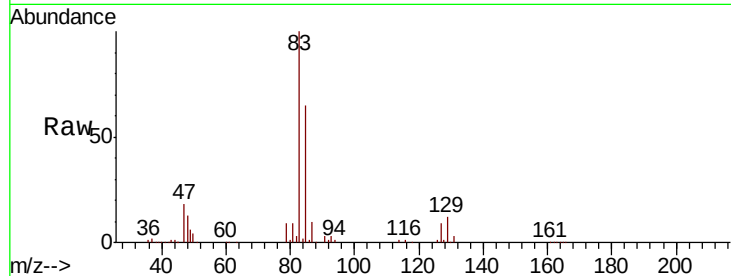
#47
 Bromodichloromethane
 Concen: 19.45 ug/l
 RT: 9.40 min Scan# 2430
 Delta R.T. 0.00 min
 Lab File: VN050586.D
 Acq: 14 Aug 2018 00:35

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
83	100	205060		
85	65.0		51.8	77.6
127	9.4		7.2	10.8

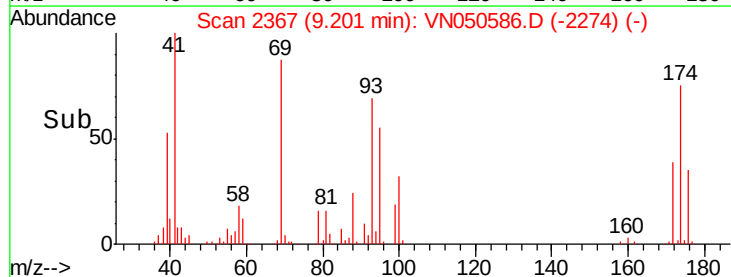
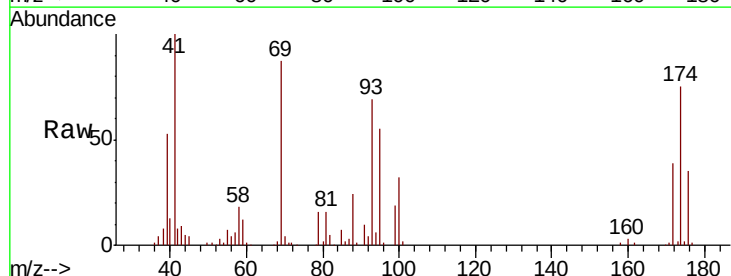
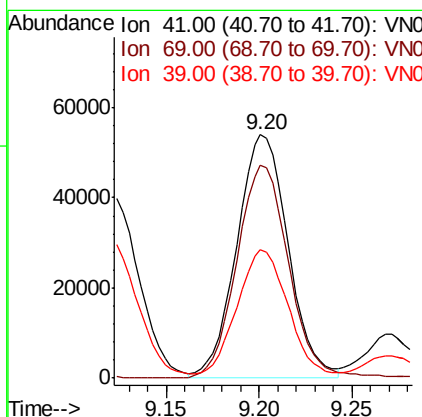
Manual Integrations
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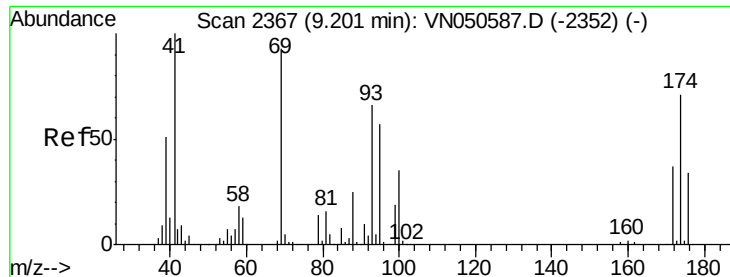
MMDadoda
 8/15/2018 3:21:04 PM



#48
 Methyl methacrylate
 Concen: 16.82 ug/l
 RT: 9.20 min Scan# 2367
 Delta R.T. 0.00 min
 Lab File: VN050586.D
 Acq: 14 Aug 2018 00:35

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	103404		
69	89.4		73.4	110.0
39	52.8		43.0	64.6





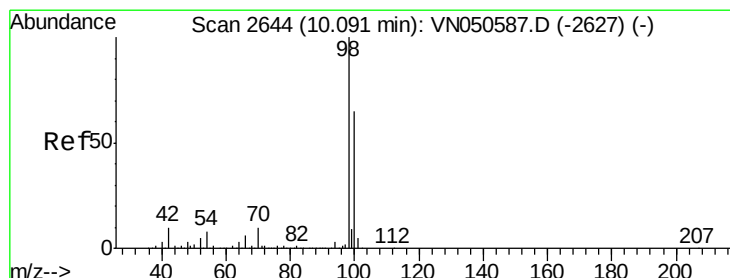
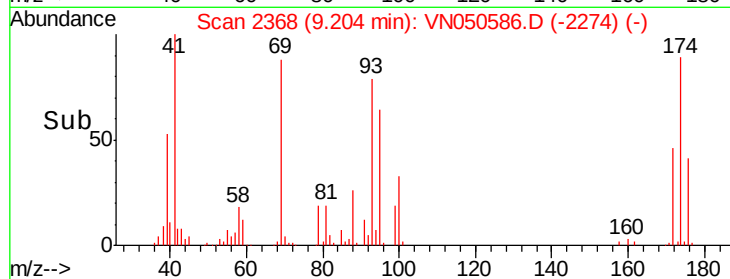
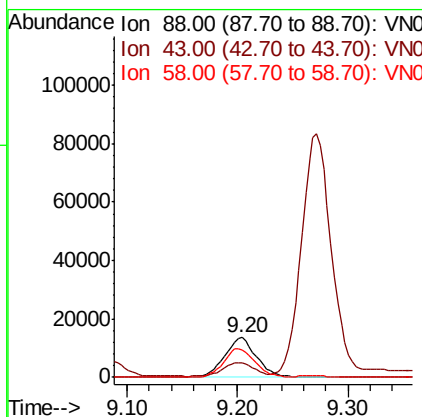
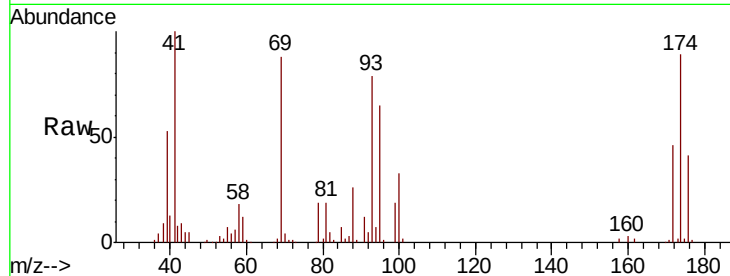
#49
1,4-Dioxane
Concen: 294.69 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VN050586.D
Acq: 14 Aug 2018 00:35

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
88	100		
43	33.9	25.9	38.9
58	70.4	56.5	84.7

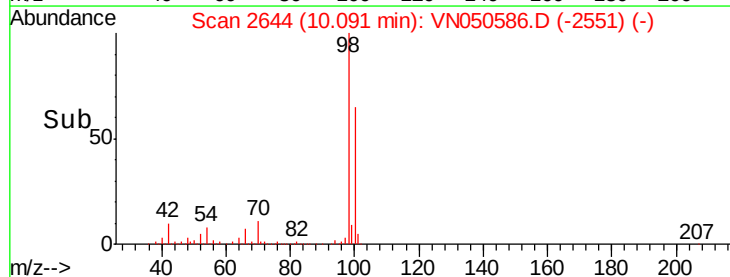
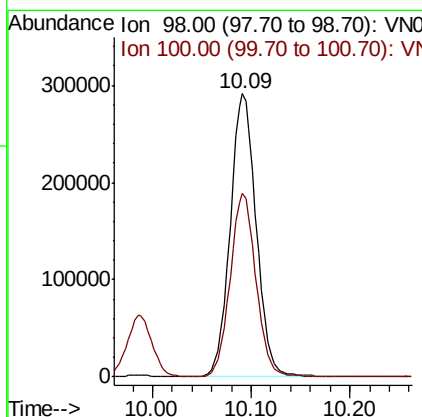
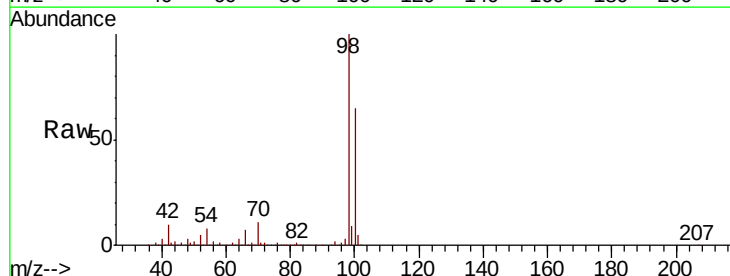
Manual Integrations
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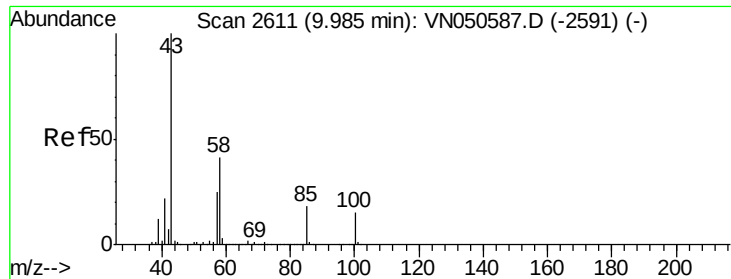
MMDadoda
8/15/2018 3:21:04 PM



#50
Toluene-d8
Concen: 19.10 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN050586.D
Acq: 14 Aug 2018 00:35

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.1	51.8	77.8





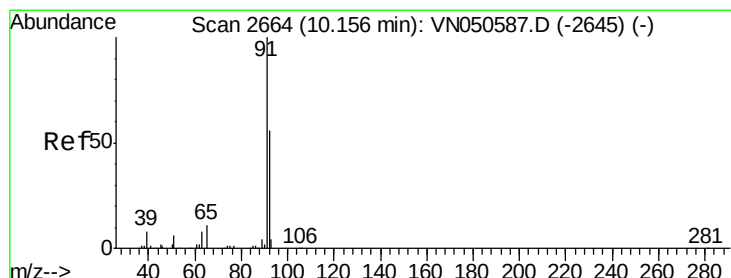
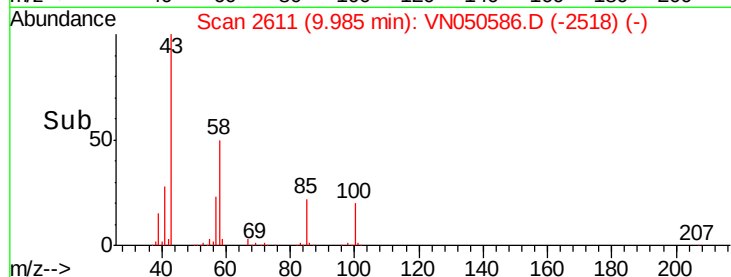
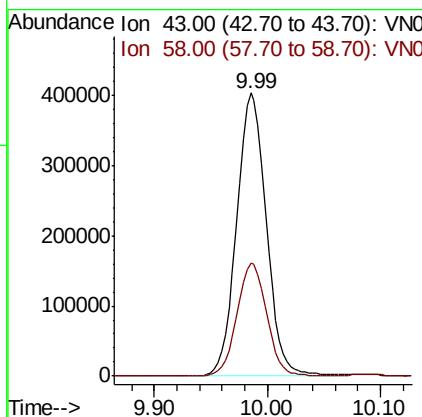
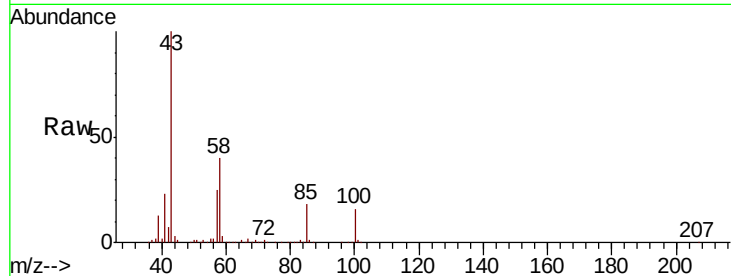
#51
 4-Methyl-2-Pentanone
 Concen: 83.68 ug/l
 RT: 9.99 min Scan# 2611
 Delta R.T. 0.00 min
 Lab File: VN050586.D
 Acq: 14 Aug 2018 00:35

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion	43	58	Ratio	Lower	Upper
43	100				
58	40.1		32.5	48.7	

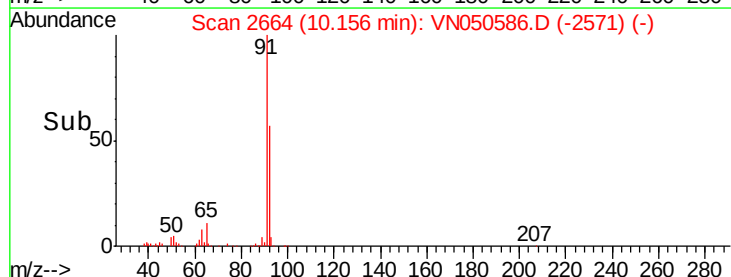
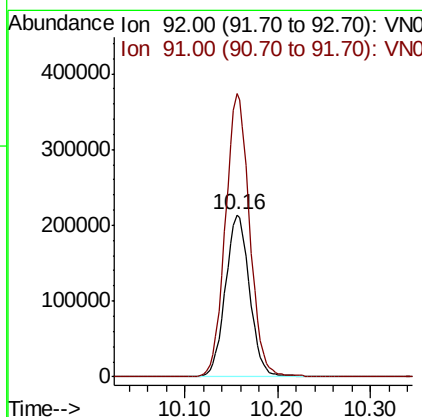
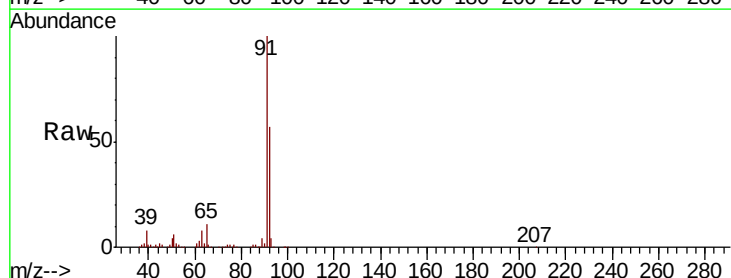
Manual Integrations
 APPROVED

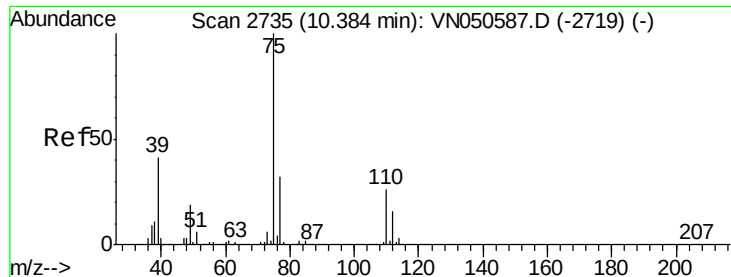
MMDadoda
 8/15/2018 3:21:04 PM



#52
 Toluene
 Concen: 20.55 ug/l
 RT: 10.16 min Scan# 2664
 Delta R.T. 0.00 min
 Lab File: VN050586.D
 Acq: 14 Aug 2018 00:35

Tgt Ion	92	91	Ratio	Lower	Upper
92	100				
91	175.1		141.9	212.9	





#53

t-1,3-Dichloropropene

Concen: 18.14 ug/l

RT: 10.38 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VN050586.D

Acq: 14 Aug 2018 00:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 75 Resp: 189801

Ion Ratio Lower Upper

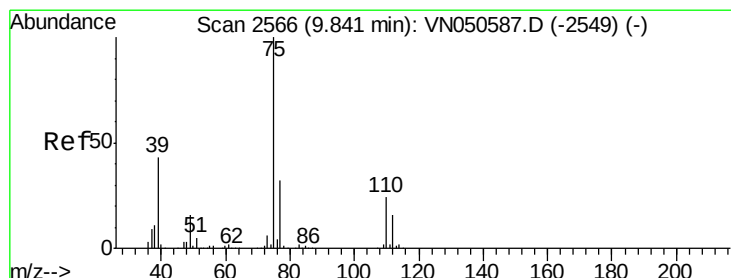
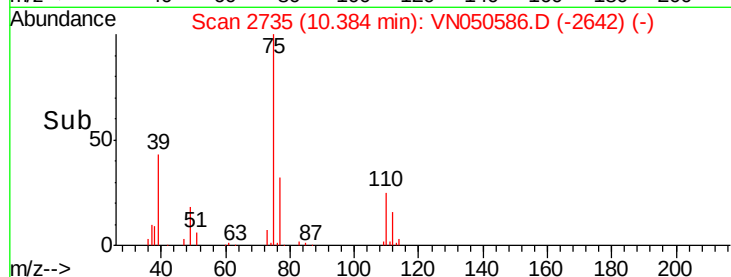
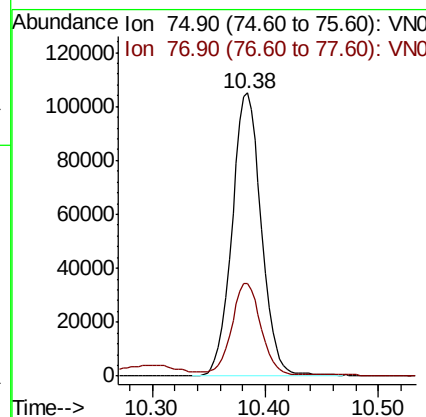
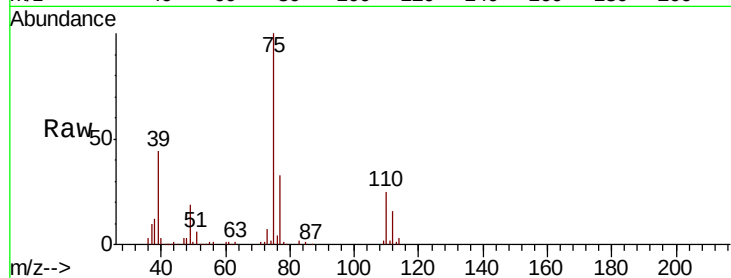
75 100

77 32.2 25.8 38.6

Manual Integrations
APPROVED

MMDadoda

8/15/2018 3:21:04 PM



#54

cis-1,3-Dichloropropene

Concen: 19.11 ug/l

RT: 9.84 min Scan# 2566

Delta R.T. 0.00 min

Lab File: VN050586.D

Acq: 14 Aug 2018 00:35

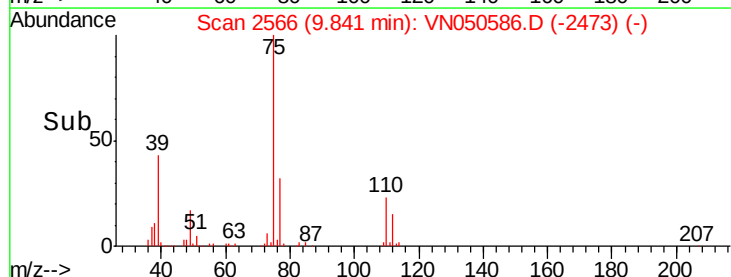
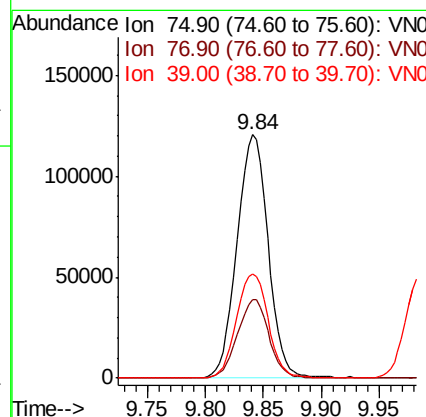
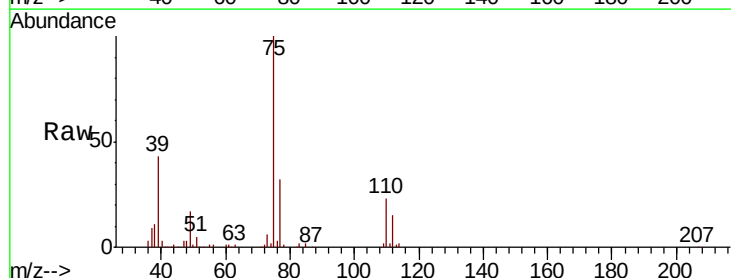
Tgt Ion: 75 Resp: 224381

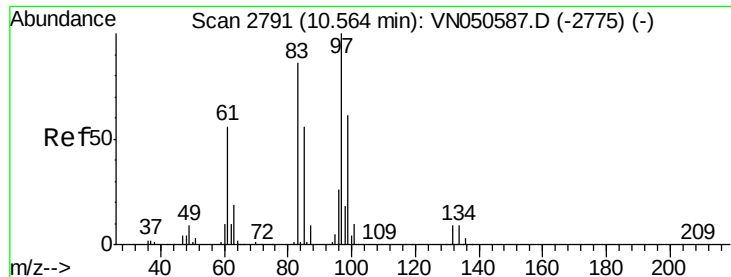
Ion Ratio Lower Upper

75 100

77 32.3 25.6 38.4

39 42.5 34.4 51.6





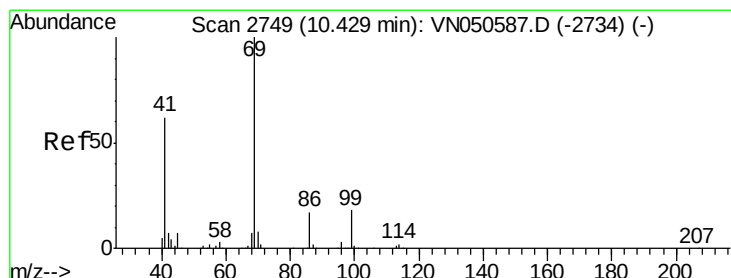
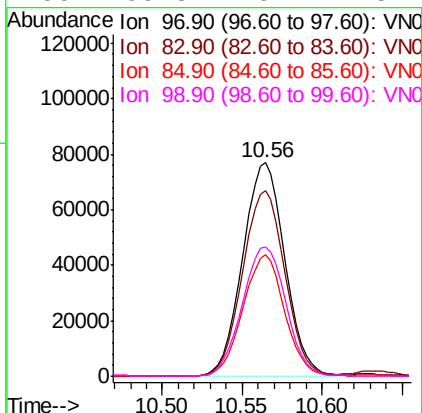
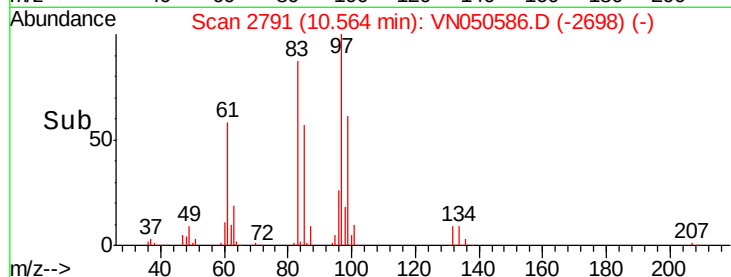
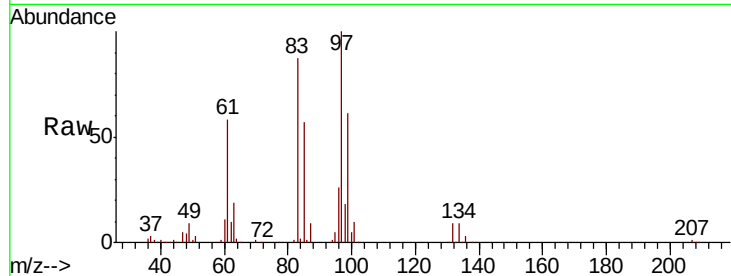
#55
 1,1,2-Trichloroethane
 Concen: 19.01 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. 0.00 min
 Lab File: VN050586.D
 Acq: 14 Aug 2018 00:35

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		138518		
83	86.8	68.5	102.7		
85	56.7	44.6	66.8		
99	60.8	49.1	73.7		

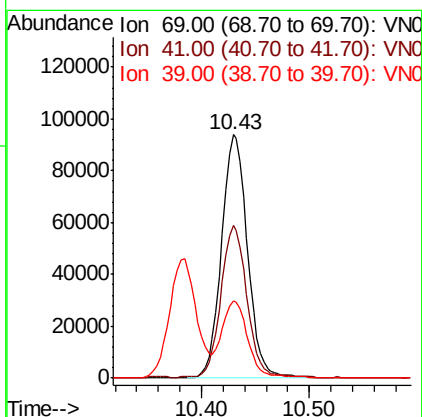
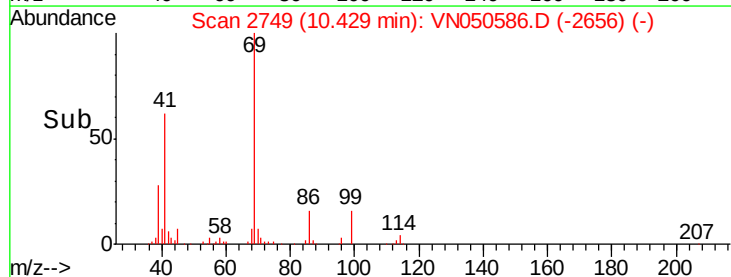
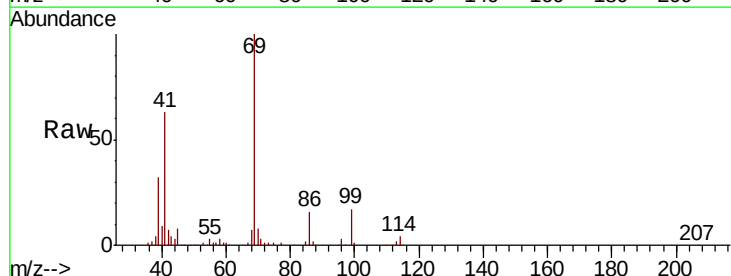
Manual Integrations
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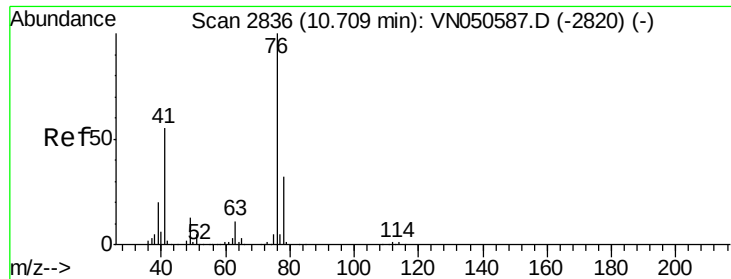
MMDadoda
 8/15/2018 3:21:04 PM



#56
 Ethyl methacrylate
 Concen: 17.41 ug/l
 RT: 10.43 min Scan# 2749
 Delta R.T. 0.00 min
 Lab File: VN050586.D
 Acq: 14 Aug 2018 00:35

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		157945		
41	61.6	49.7	74.5		
39	30.0	24.2	36.2		





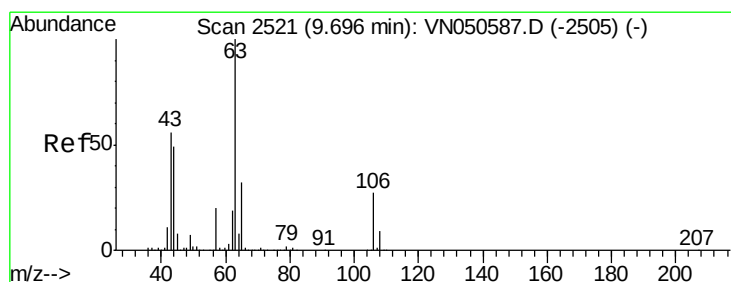
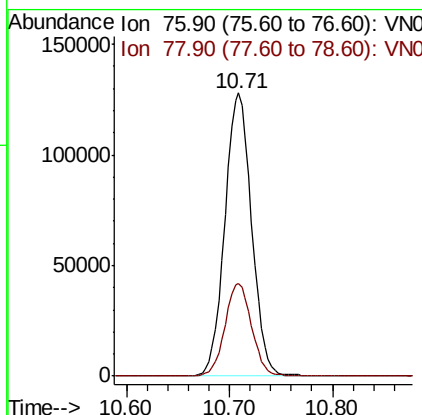
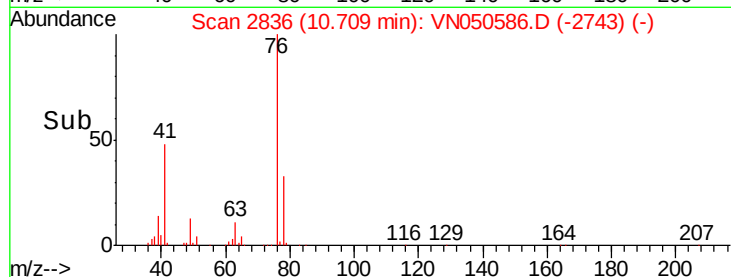
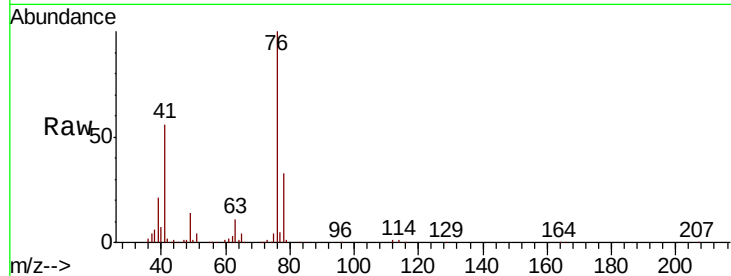
#57
 1,3-Dichloropropane
 Concen: 19.32 ug/l
 RT: 10.71 min Scan# 2836
 Delta R.T. 0.00 min
 Lab File: VN050586.D
 Acq: 14 Aug 2018 00:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.7	25.8	38.6

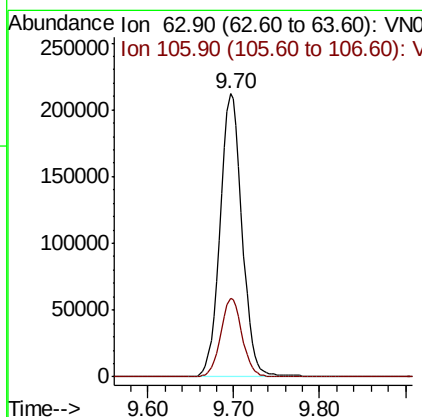
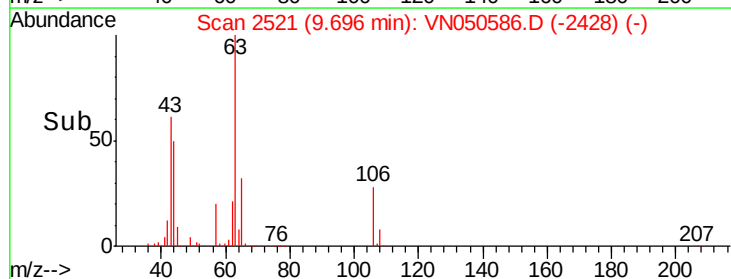
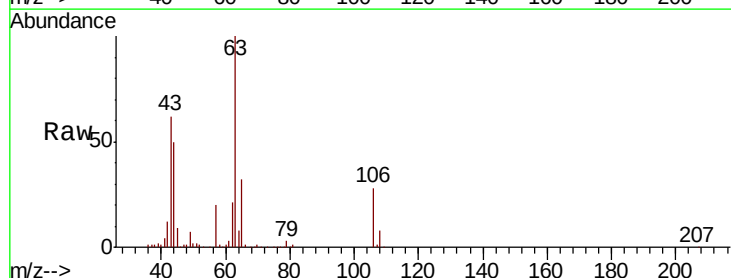
Manual Integrations
 APPROVED

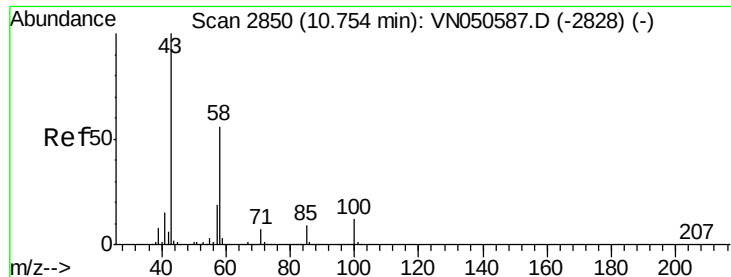
MMDadoda
 8/15/2018 3:21:04 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 88.98 ug/l
 RT: 9.70 min Scan# 2521
 Delta R.T. 0.00 min
 Lab File: VN050586.D
 Acq: 14 Aug 2018 00:35

Tgt Ion	Ratio	Lower	Upper
63	100		
106	27.2	21.7	32.5





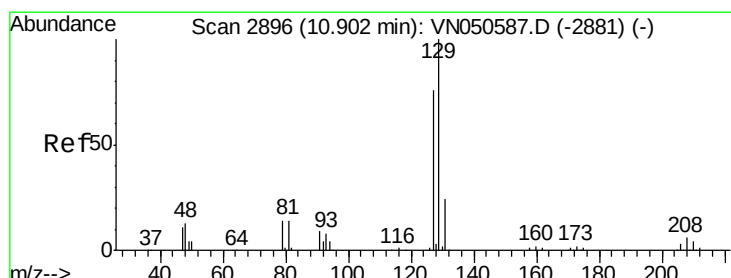
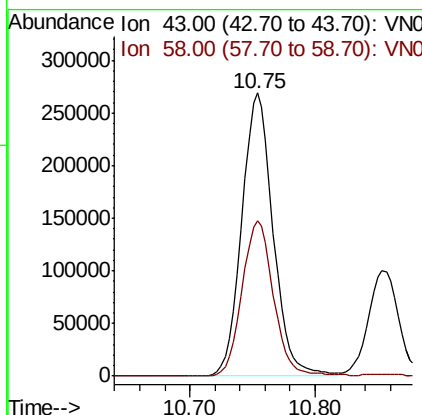
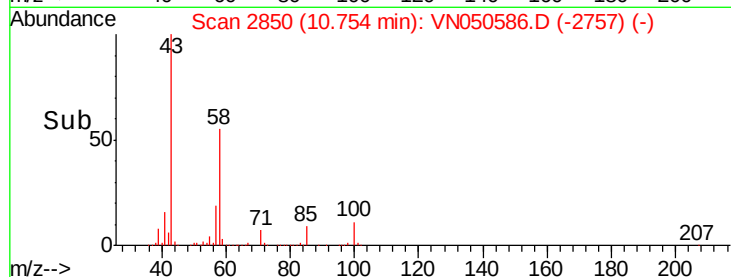
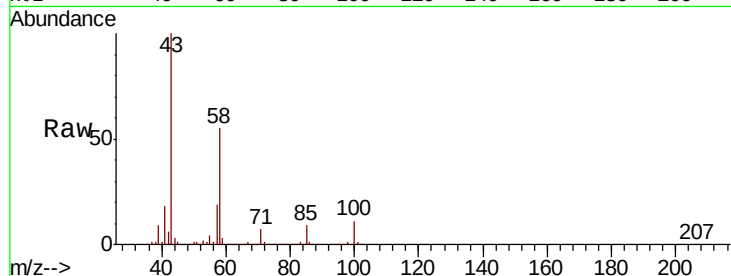
#59
2-Hexanone
Concen: 76.46 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. 0.00 min
Lab File: VN050586.D
Acq: 14 Aug 2018 00:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.4	28.0	84.0

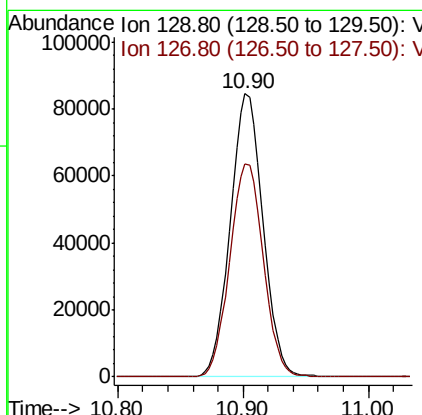
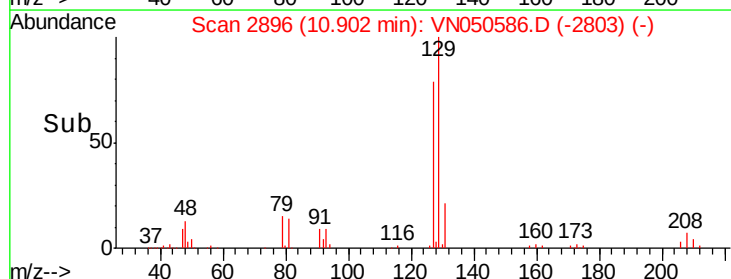
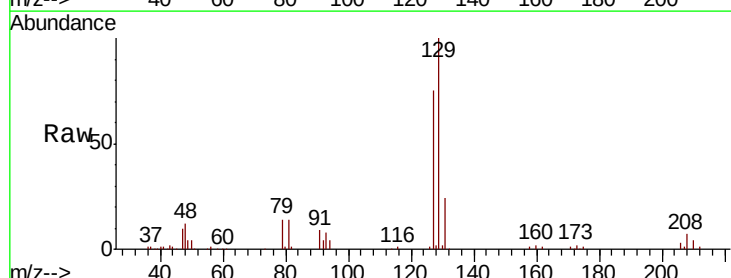
Manual Integrations
APPROVED

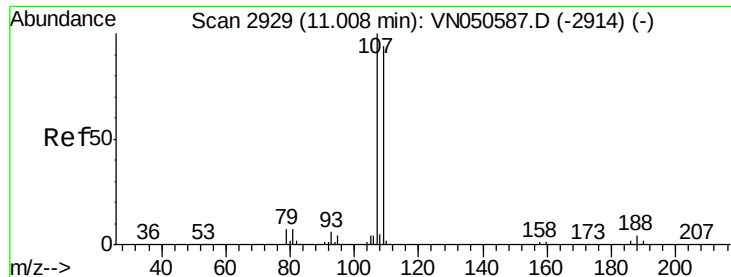
MMDadoda
8/15/2018 3:21:04 PM



#60
Dibromochloromethane
Concen: 19.08 ug/l
RT: 10.90 min Scan# 2896
Delta R.T. 0.00 min
Lab File: VN050586.D
Acq: 14 Aug 2018 00:35

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.0	38.9	116.7





#61

1,2-Dibromoethane

Concen: 18.53 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VN050586.D

Acq: 14 Aug 2018 00:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 107 Resp: 132556

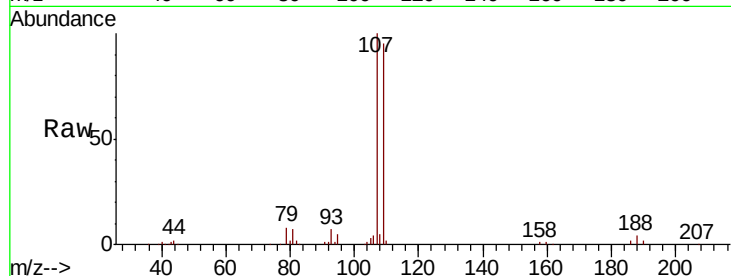
Ion Ratio Lower Upper

107 100

109 95.9 75.7 113.5

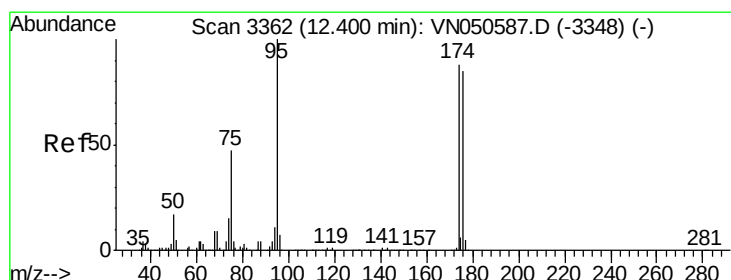
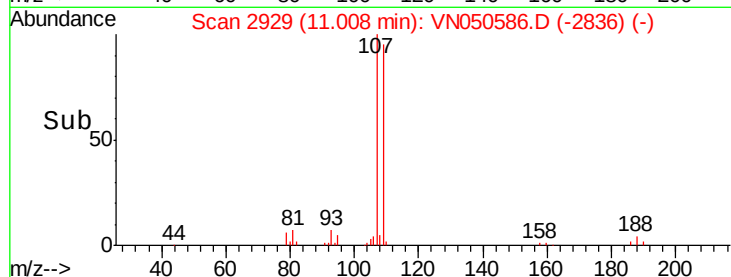
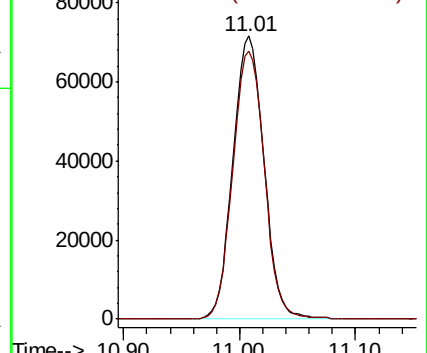
Manual Integrations
APPROVED

MMDadoda
8/15/2018 3:21:04 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 17.80 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050586.D

Acq: 14 Aug 2018 00:35

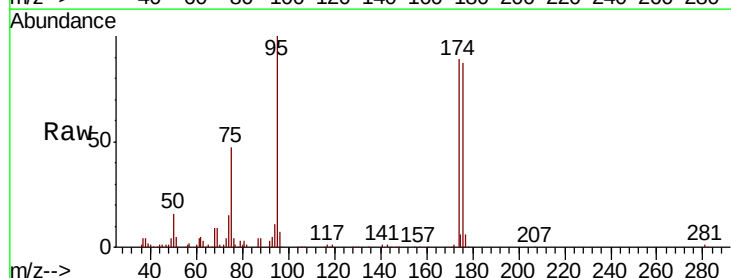
Tgt Ion: 95 Resp: 169483

Ion Ratio Lower Upper

95 100

174 90.9 0.0 177.8

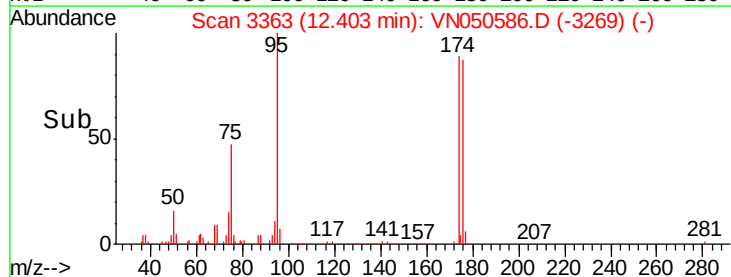
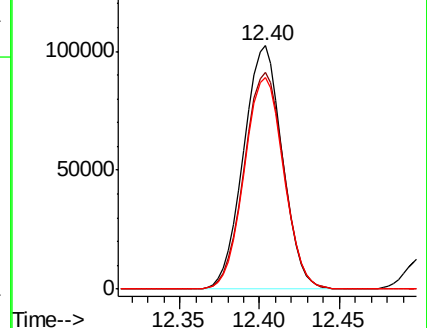
176 88.5 0.0 175.0

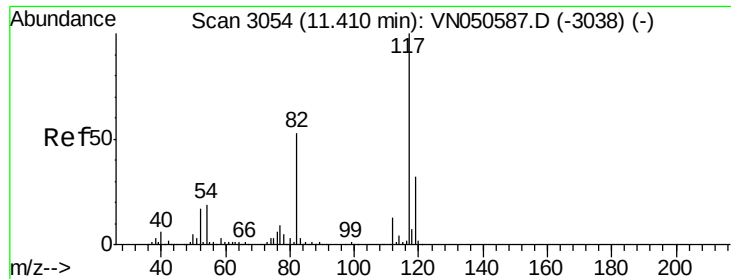


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





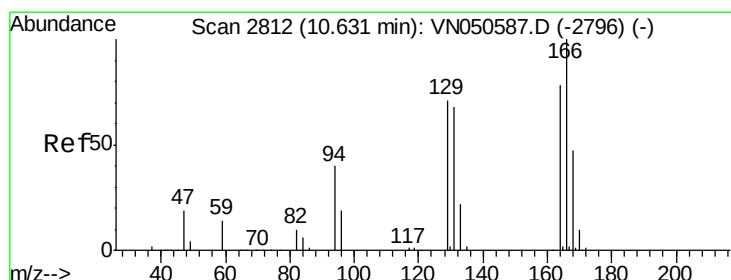
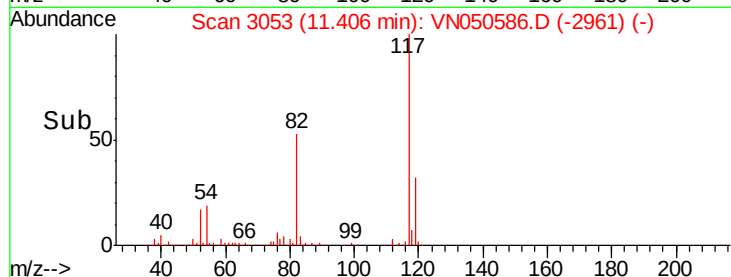
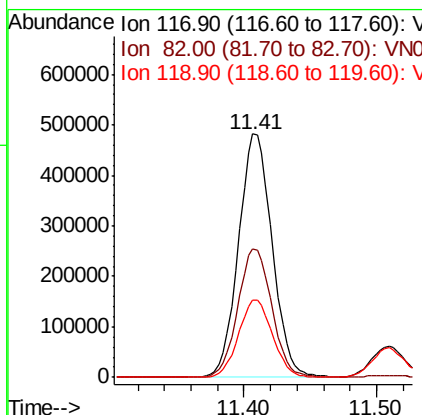
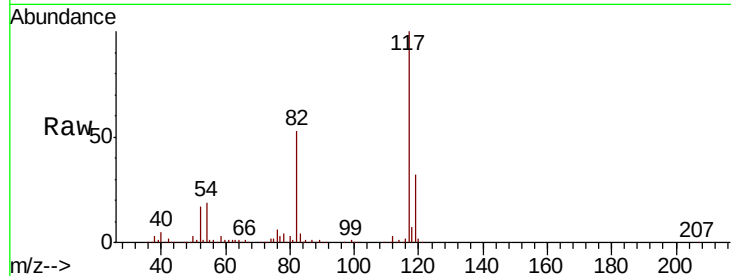
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3053
Delta R.T. -0.00 min
Lab File: VN050586.D
Acq: 14 Aug 2018 00:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.0	42.4	63.6
119	31.8	25.8	38.8

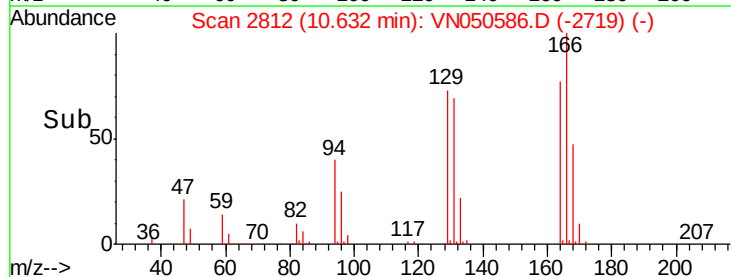
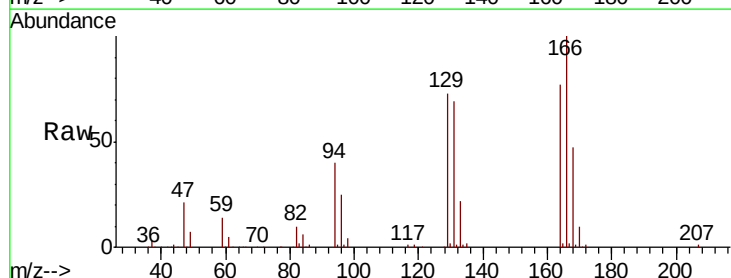
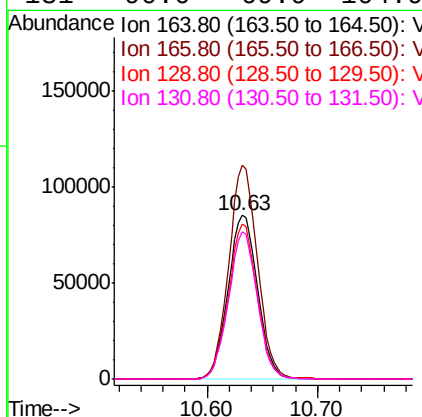
Manual Integrations
APPROVED

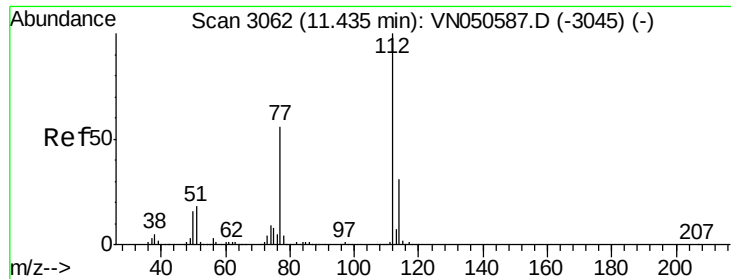
MMDadoda
8/15/2018 3:21:04 PM



#64
Tetrachloroethene
Concen: 20.00 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. 0.00 min
Lab File: VN050586.D
Acq: 14 Aug 2018 00:35

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.4	102.1	153.1
129	94.6	72.7	109.1
131	90.0	69.9	104.9





#65

Chlorobenzene

Concen: 19.55 ug/l

RT: 11.43 min Scan# 3061

Delta R.T. -0.00 min

Lab File: VN050586.D

Acq: 14 Aug 2018 00:35

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion:112 Resp: 416943

Ion Ratio Lower Upper

112 100

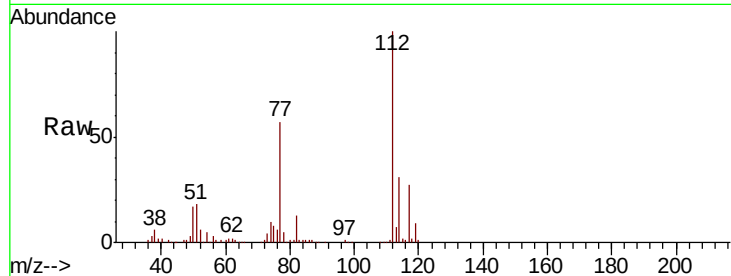
114 31.3 25.2 37.8

Manual Integrations

APPROVED

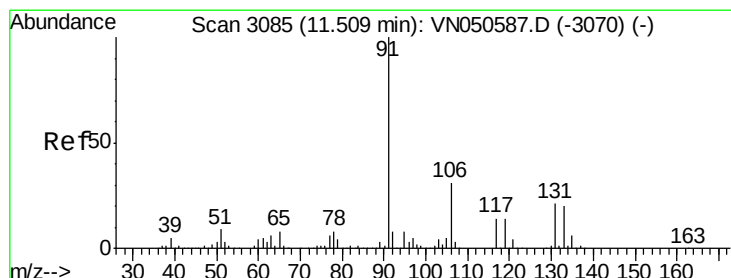
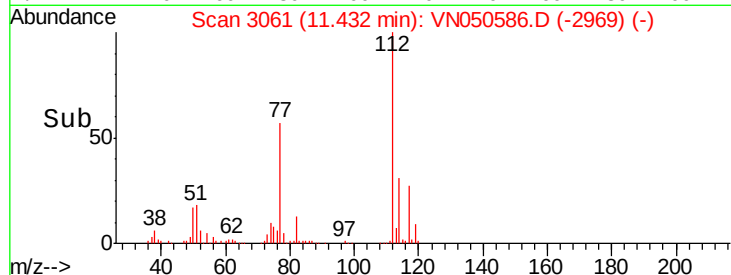
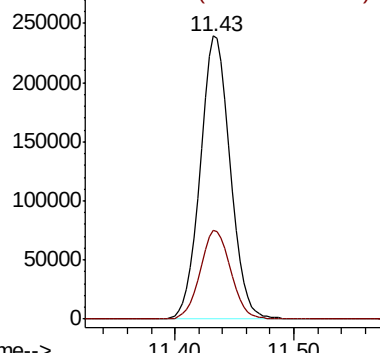
MMDadoda

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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 19.86 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. 0.00 min

Lab File: VN050586.D

Acq: 14 Aug 2018 00:35

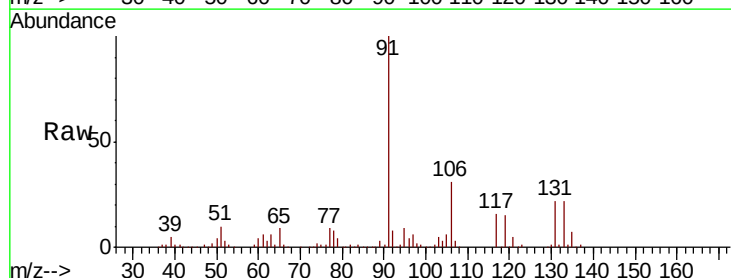
Tgt Ion:131 Resp: 154568

Ion Ratio Lower Upper

131 100

133 97.0 47.6 142.9

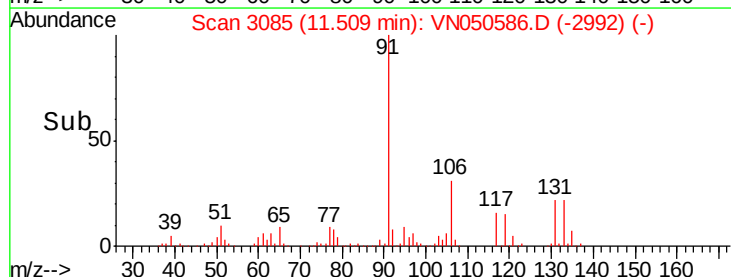
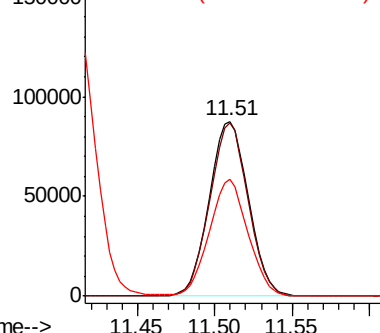
119 65.8 33.1 99.3

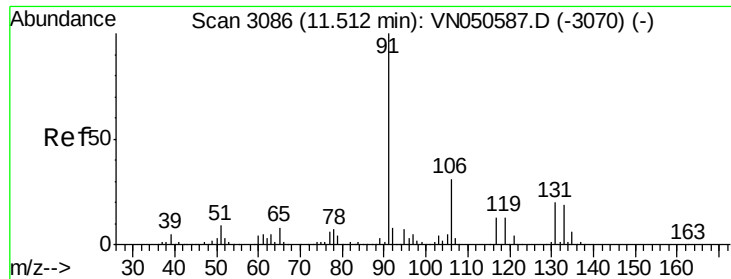


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





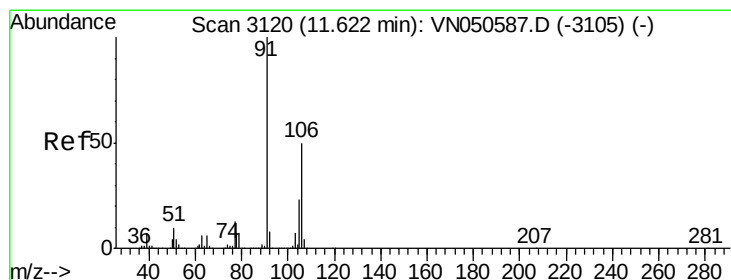
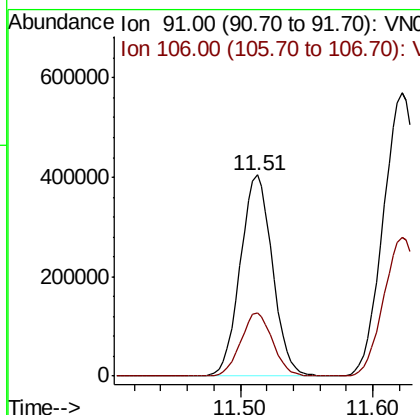
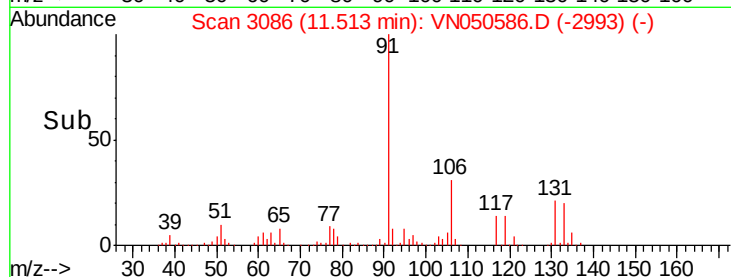
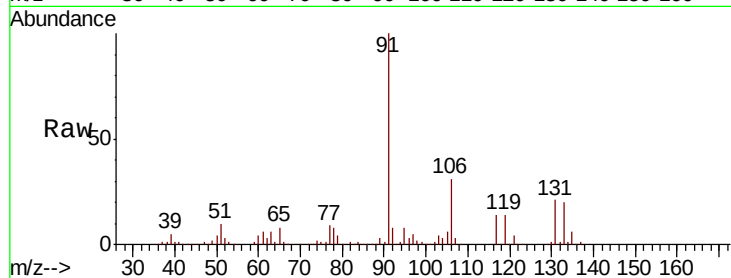
#67
Ethyl Benzene
Concen: 19.79 ug/l
RT: 11.51 min Scan# 3086
Delta R.T. 0.00 min
Lab File: VN050586.D
Acq: 14 Aug 2018 00:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 91 Resp: 682406
Ion Ratio Lower Upper
91 100
106 31.4 24.8 37.2

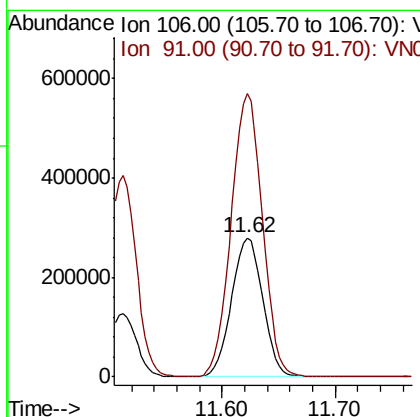
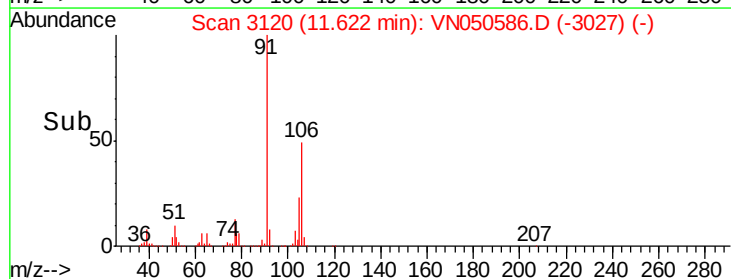
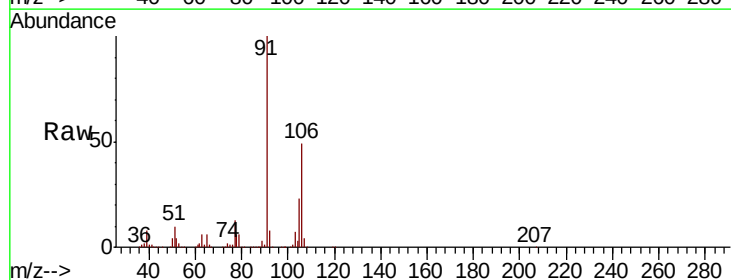
Manual Integrations
APPROVED

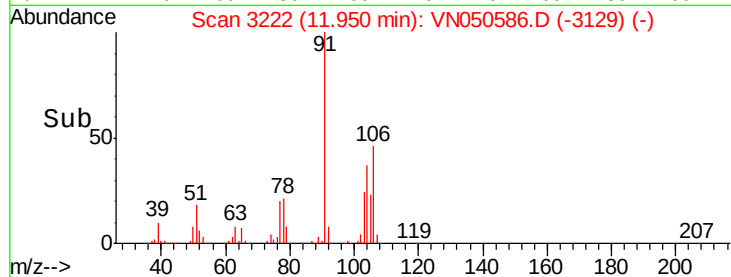
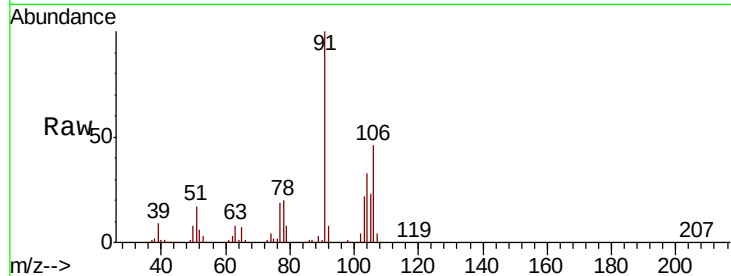
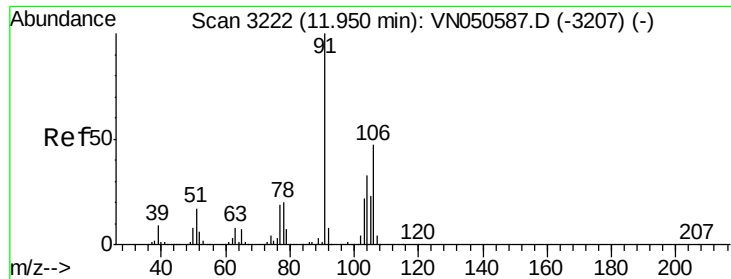
MMDadoda
8/15/2018 3:21:04 PM



#68
m/p-Xylenes
Concen: 40.98 ug/l
RT: 11.62 min Scan# 3120
Delta R.T. 0.00 min
Lab File: VN050586.D
Acq: 14 Aug 2018 00:35

Tgt Ion: 106 Resp: 538449
Ion Ratio Lower Upper
106 100
91 203.2 161.5 242.3





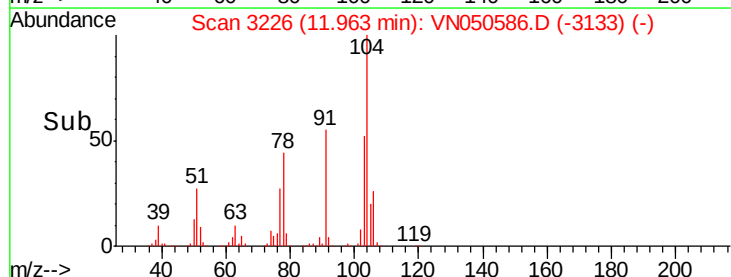
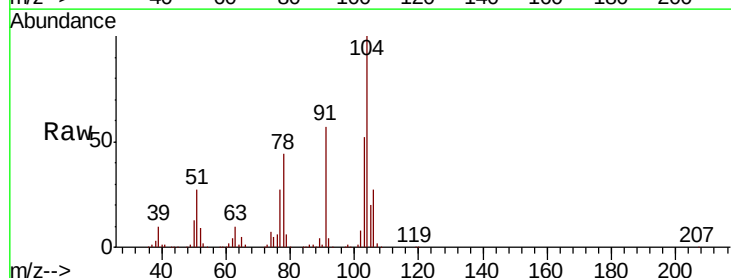
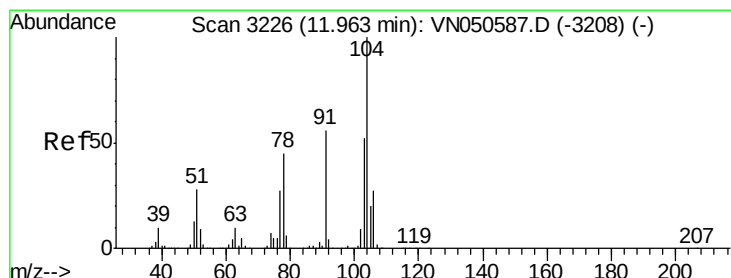
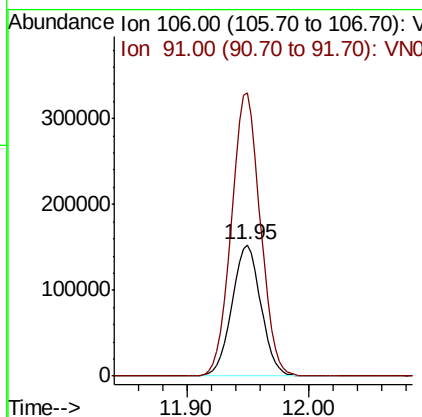
#69
o-Xylene
Concen: 19.97 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN050586.D
Acq: 14 Aug 2018 00:35

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
106	100	252233		
91	216.5	106.8	320.4	

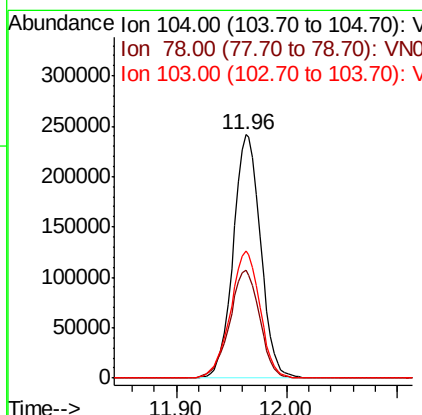
Manual Integrations
APPROVED

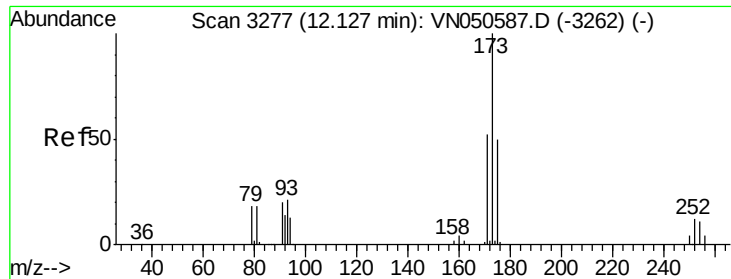
MMDadoda
8/15/2018 3:21:04 PM



#70
Styrene
Concen: 20.29 ug/l
RT: 11.96 min Scan# 3226
Delta R.T. 0.00 min
Lab File: VN050586.D
Acq: 14 Aug 2018 00:35

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	415736		
78	48.5	39.1	58.7	
103	56.3	44.9	67.3	





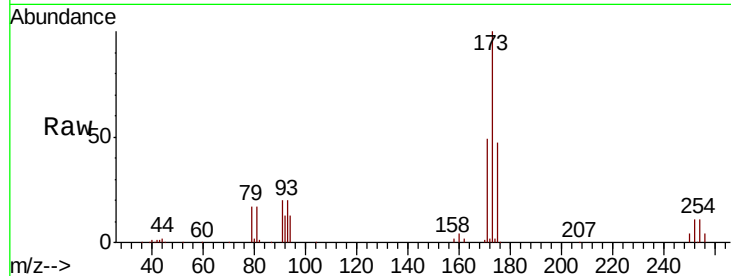
#71
Bromoform
Concen: 18.38 ug/l
RT: 12.13 min Scan# 3277
Delta R.T. 0.00 min
Lab File: VN050586.D
Acq: 14 Aug 2018 00:35

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.4	73.2
254	0.0	0.0	0.0

Manual Integrations
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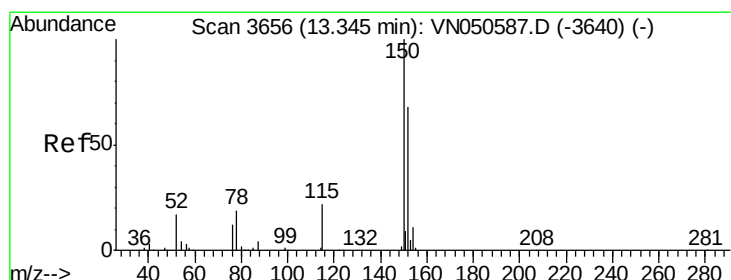
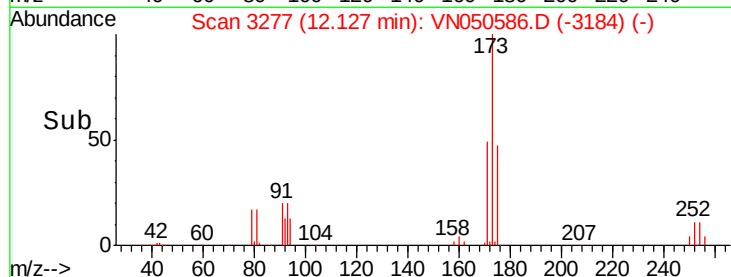
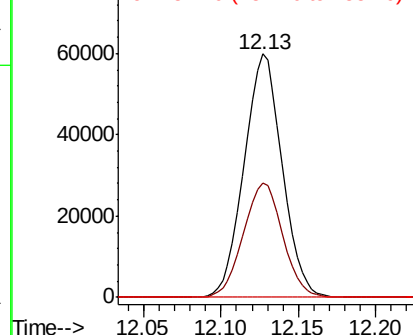


Abundance

Ion 172.70 (172.40 to 173.40): V

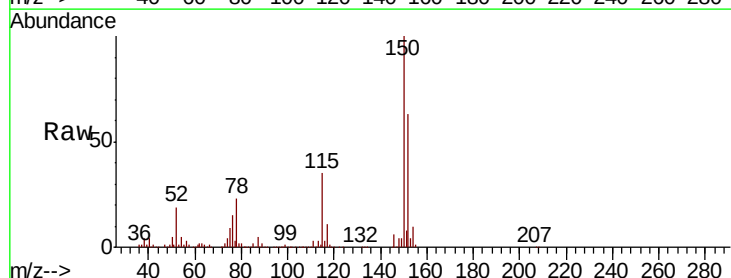
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.34 min Scan# 3655
Delta R.T. -0.00 min
Lab File: VN050586.D
Acq: 14 Aug 2018 00:35

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.7	28.1	84.2
150	165.7	0.0	347.8

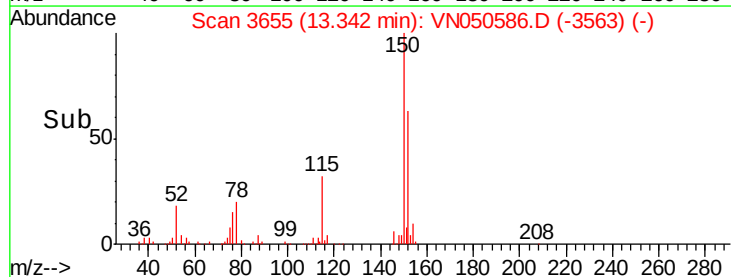
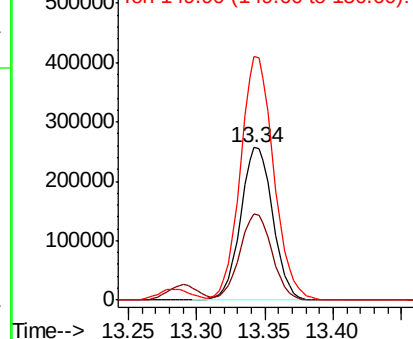


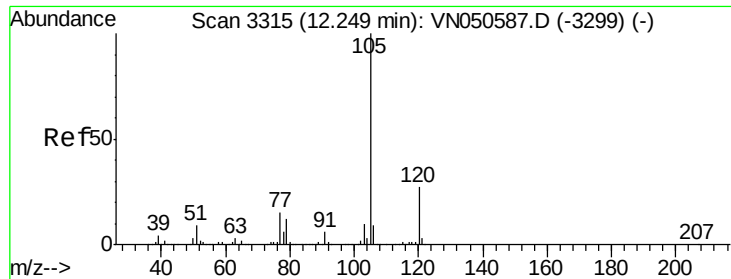
Abundance

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: 21.02 ug/l

RT: 12.25 min Scan# 3315

Delta R.T. 0.00 min

Lab File: VN050586.D

Acq: 14 Aug 2018 00:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 667380

Ion Ratio Lower Upper

105 100

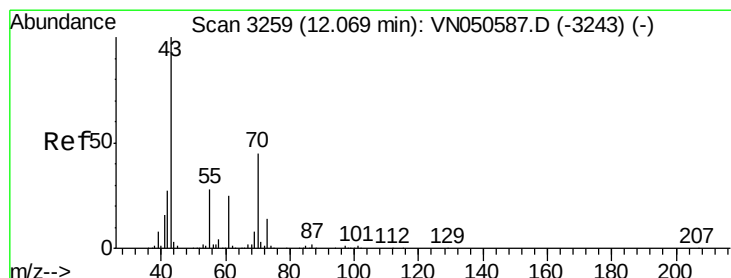
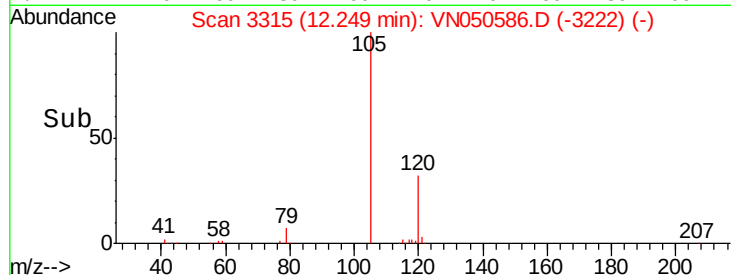
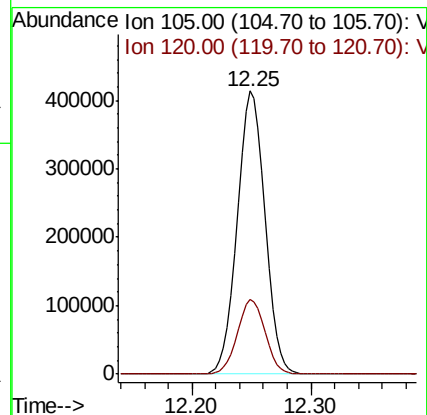
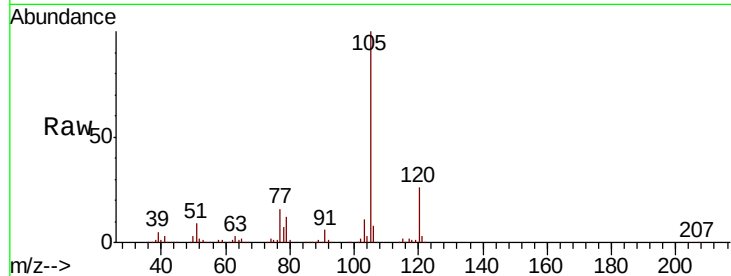
120 26.3 13.4 40.1

Manual Integrations

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8/15/2018 3:21:04 PM



#74

N-ethyl acetate

Concen: 17.11 ug/l

RT: 12.07 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN050586.D

Acq: 14 Aug 2018 00:35

Tgt Ion: 43 Resp: 169835

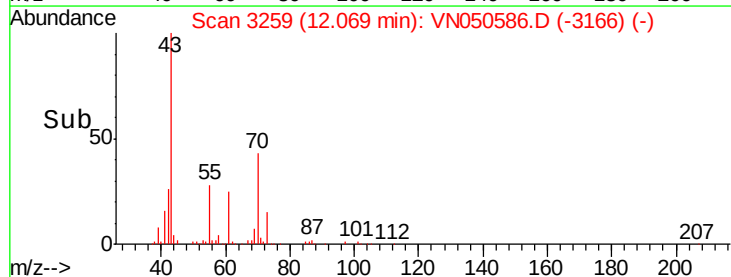
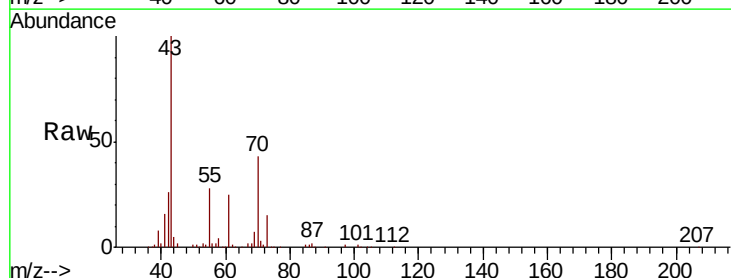
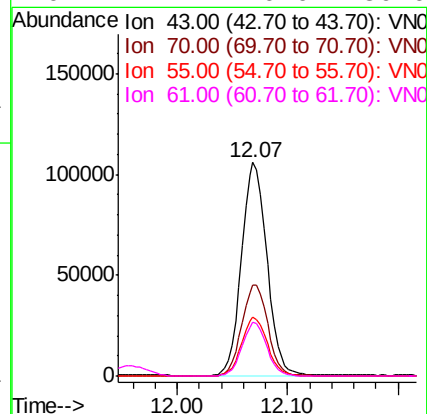
Ion Ratio Lower Upper

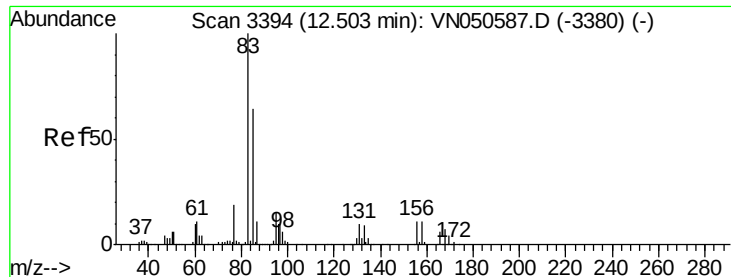
43 100

70 43.9 35.9 53.9

55 27.8 22.2 33.4

61 24.2 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 18.86 ug/l

RT: 12.50 min Scan# 3394

Delta R.T. 0.00 min

Lab File: VN050586.D

Acq: 14 Aug 2018 00:35

Instrument :

MSVOA_N

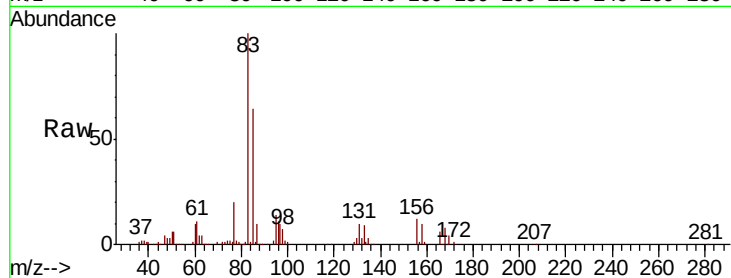
ClientSampled :

VSTDIC020

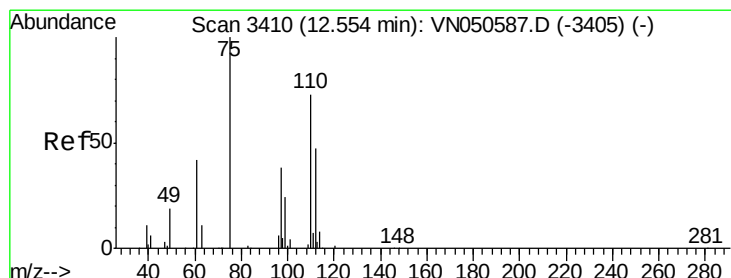
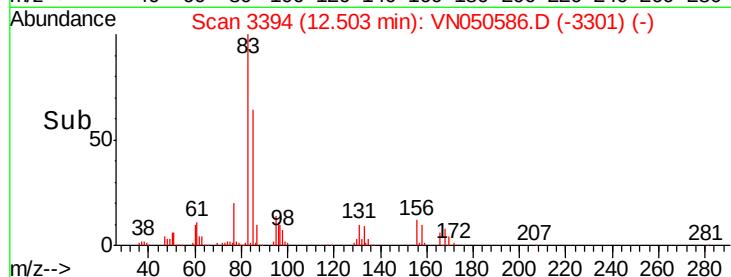
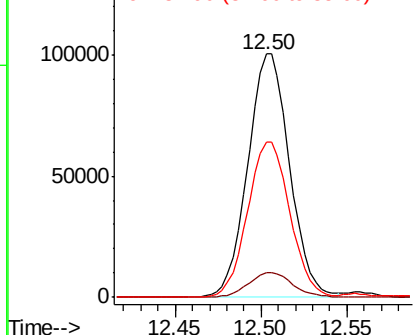
Tot Ion:	83	Resp:	169019
Ion Ratio	Lower	Upper	
83	100		
131	10.7	5.3	15.9
85	64.5	32.1	96.5

Manual Integrations
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8/15/2018 3:21:04 PM



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



#76

1,2,3-Trichloropropane

Concen: 19.89 ug/l m

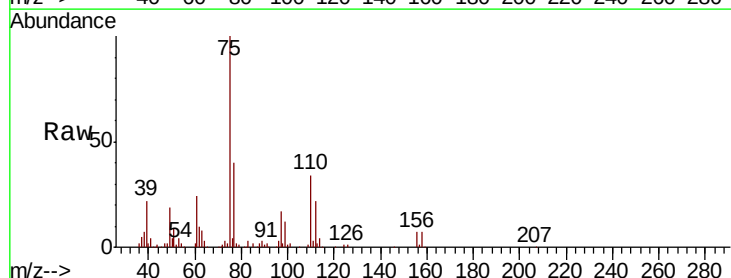
RT: 12.55 min Scan# 3410

Delta R.T. 0.00 min

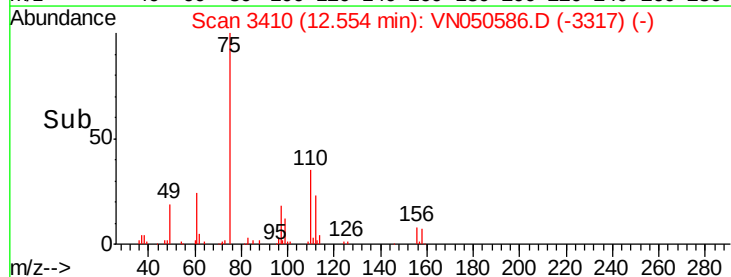
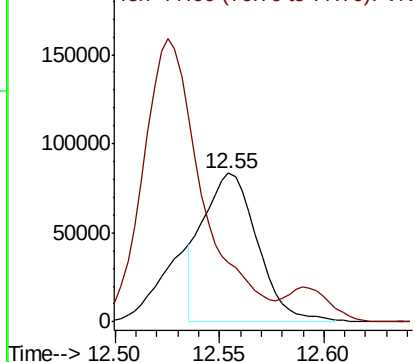
Lab File: VN050586.D

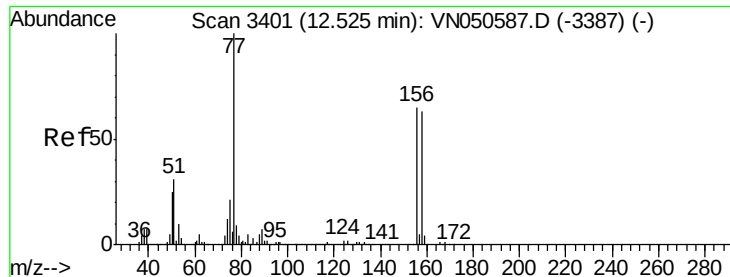
Acq: 14 Aug 2018 00:35

Tgt Ion:	75	Resp:	150927
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



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





#77

Bromobenzene

Concen: 20.45 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VN050586.D

Acq: 14 Aug 2018 00:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:156 Resp: 173694

Ion Ratio Lower Upper

156 100

77 180.9 89.0 267.1

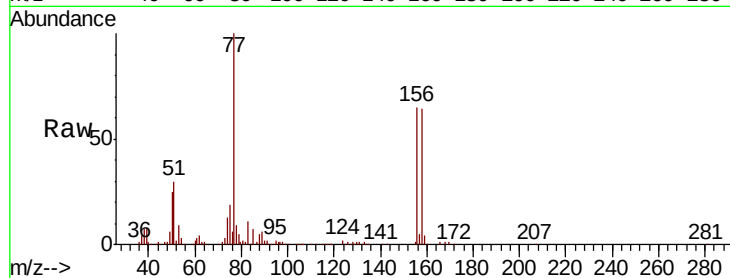
158 98.6 48.5 145.6

Manual Integrations

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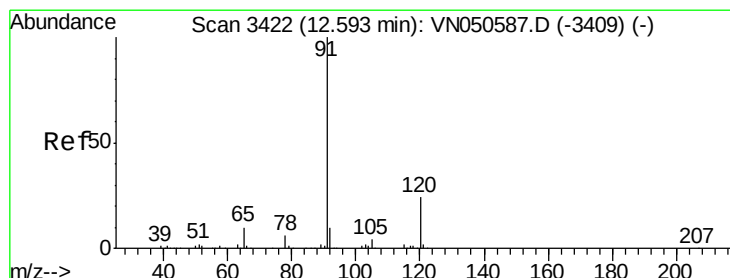
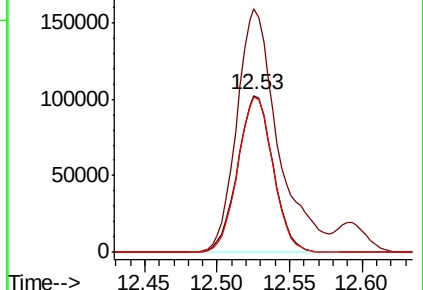
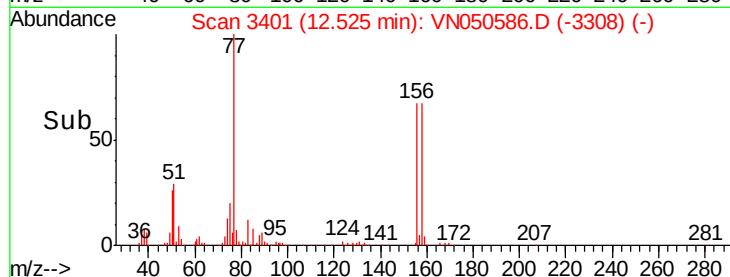
8/15/2018 3:21:04 PM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 21.07 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN050586.D

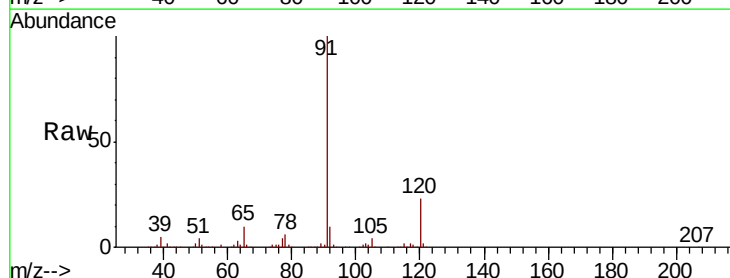
Acq: 14 Aug 2018 00:35

Tgt Ion: 91 Resp: 756549

Ion Ratio Lower Upper

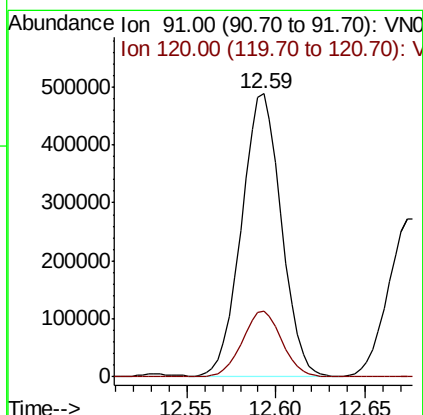
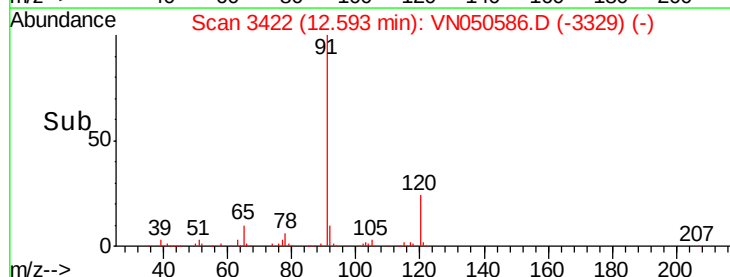
91 100

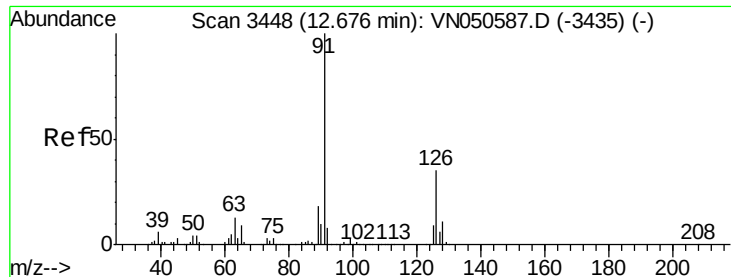
120 23.2 11.8 35.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.81 ug/l

RT: 12.67 min Scan# 3447

Delta R.T. -0.00 min

Lab File: VN050586.D

Acq: 14 Aug 2018 00:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 461743

Ion Ratio Lower Upper

91 100

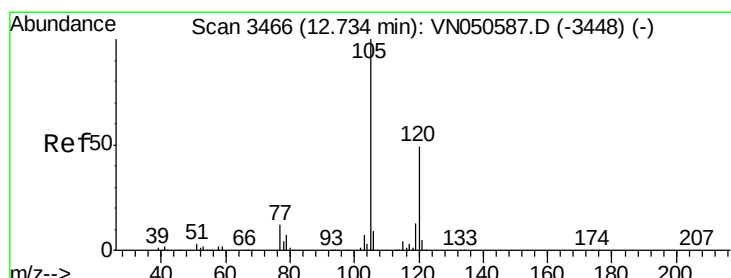
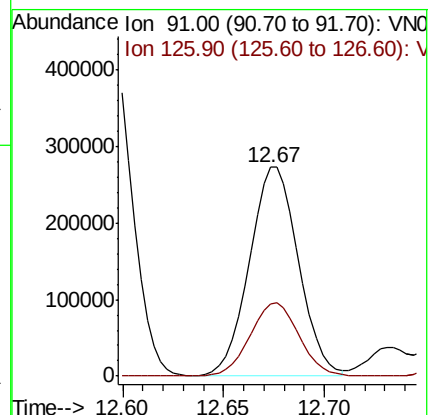
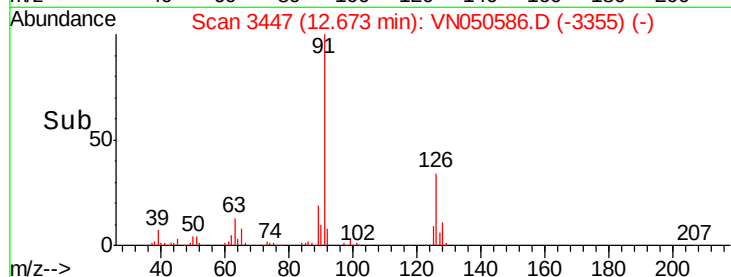
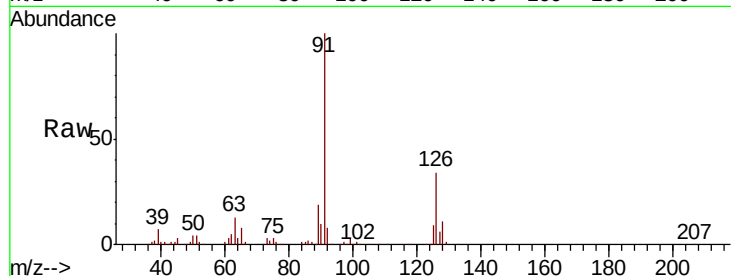
126 35.2 17.6 52.8

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 21.64 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050586.D

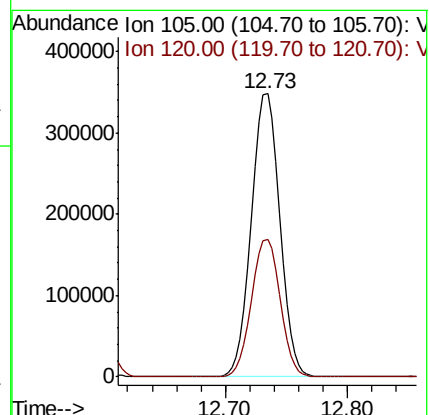
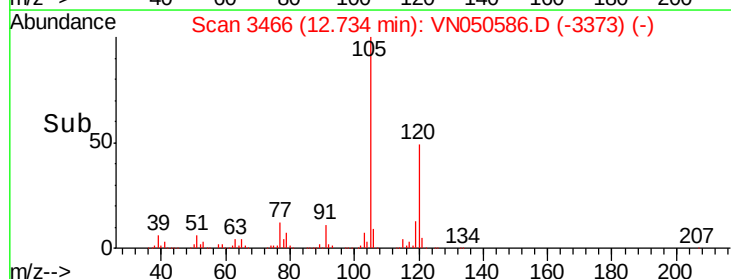
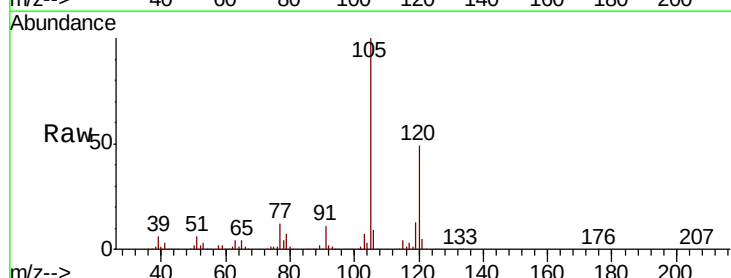
Acq: 14 Aug 2018 00:35

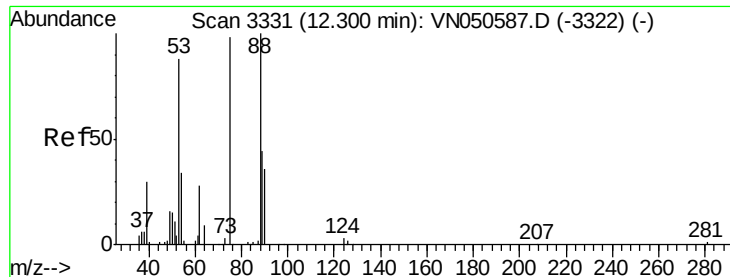
Tgt Ion: 105 Resp: 556486

Ion Ratio Lower Upper

105 100

120 49.1 24.7 74.1





#81

trans-1,4-Dichloro-2-butene

Concen: 17.13 ug/l

RT: 12.30 min Scan# 3331

Delta R.T. 0.00 min

Lab File: VN050586.D

Acq: 14 Aug 2018 00:35

Instrument :

MSVOA_N

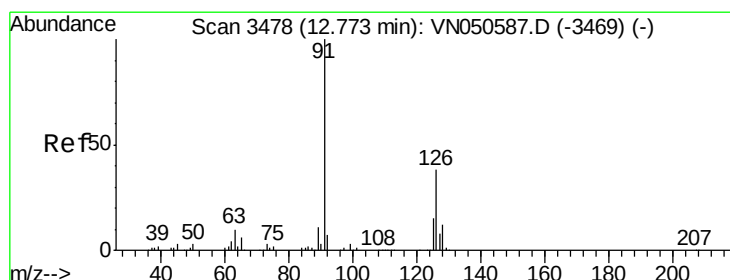
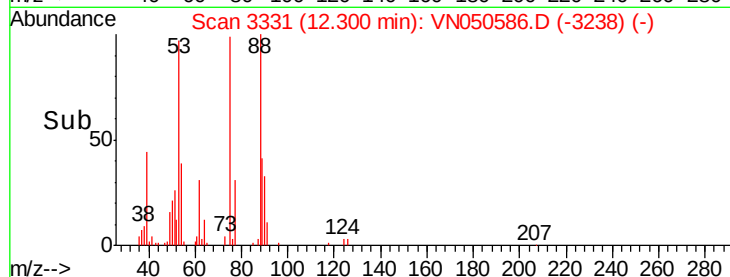
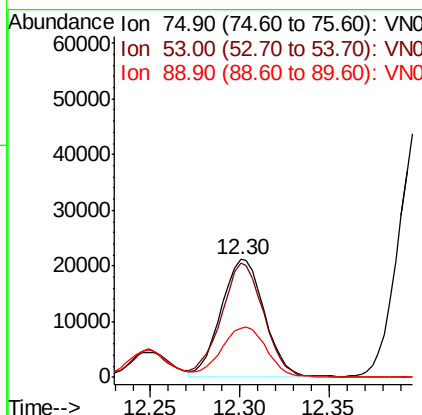
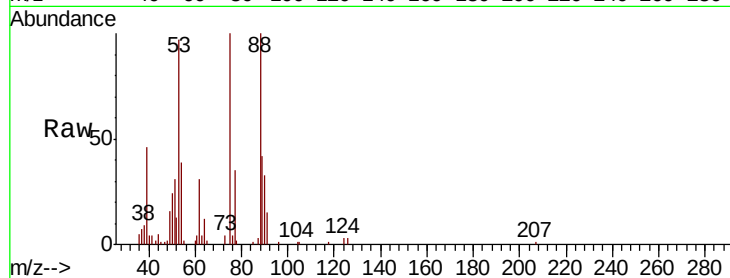
ClientSampled :

VSTDIC020

Tot Ion:	75	Resp:	35931
Ion	Ratio	Lower	Upper
75	100		
53	94.9	72.2	108.2
89	44.6	36.3	54.5

Manual Integrations
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#82

4-Chlorotoluene

Concen: 21.28 ug/l

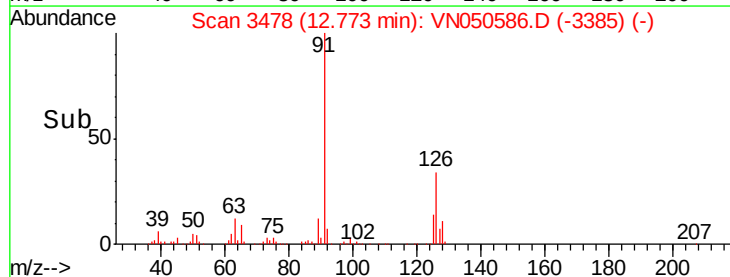
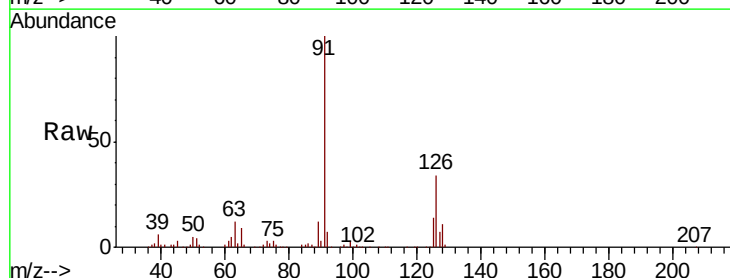
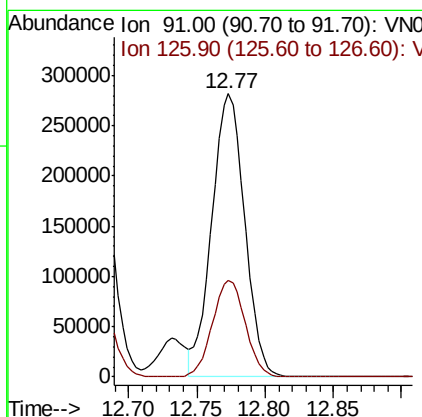
RT: 12.77 min Scan# 3478

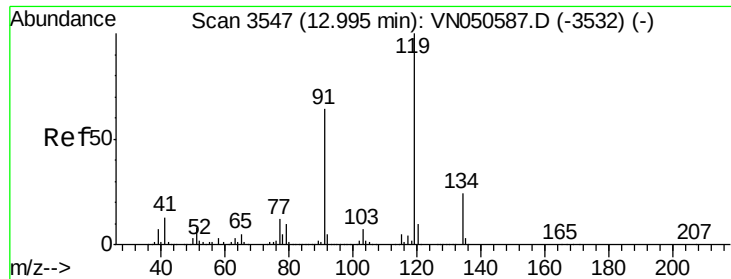
Delta R.T. 0.00 min

Lab File: VN050586.D

Acq: 14 Aug 2018 00:35

Tgt Ion:	91	Resp:	470535
Ion	Ratio	Lower	Upper
91	100		
126	34.1	17.3	52.0





#83

tert-Butylbenzene

Concen: 20.47 ug/l

RT: 12.99 min Scan# 3547

Delta R.T. 0.00 min

Lab File: VN050586.D

Acq: 14 Aug 2018 00:35

Instrument :

MSVOA_N

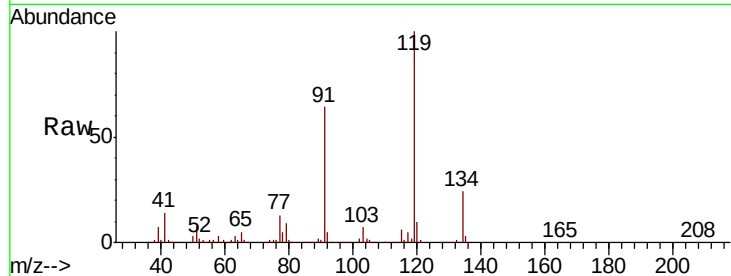
ClientSampleId :

VSTDIC020

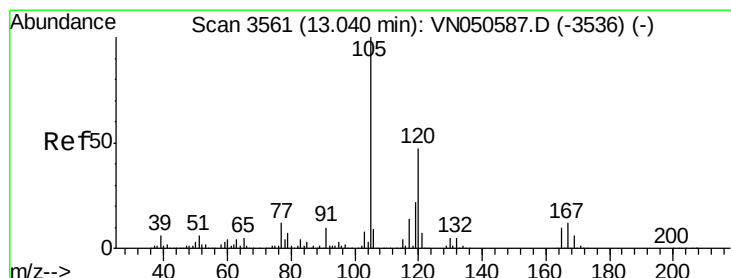
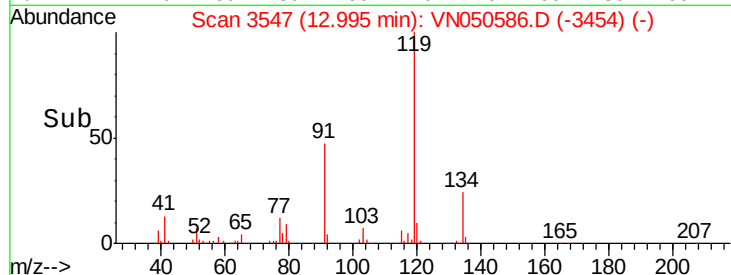
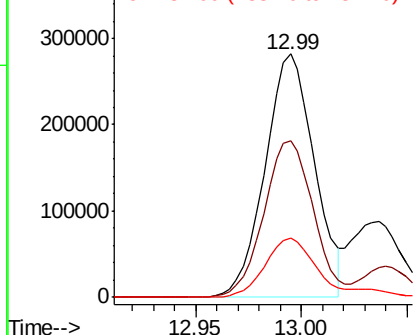
Tot Ion:	119	Resp:	458109
Ion Ratio	Lower	Upper	
119	100		
91	64.6	32.2	96.6
134	25.0	13.4	40.2

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



#84

1,2,4-Trimethylbenzene

Concen: 21.75 ug/l

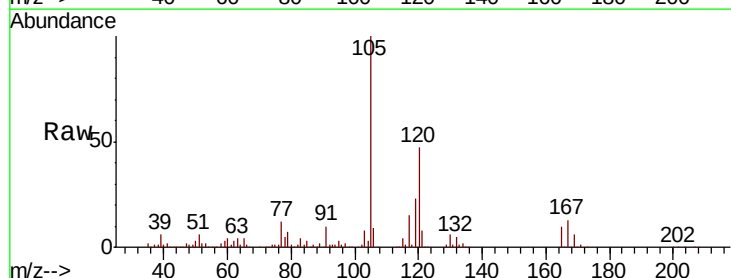
RT: 13.04 min Scan# 3561

Delta R.T. 0.00 min

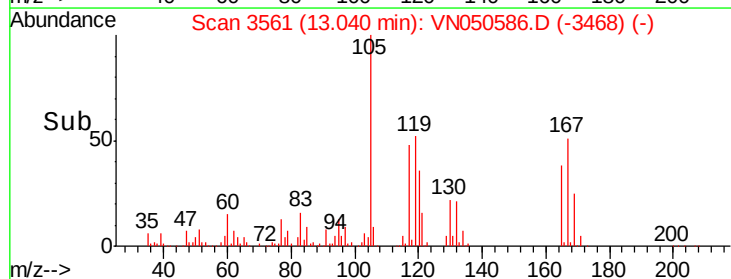
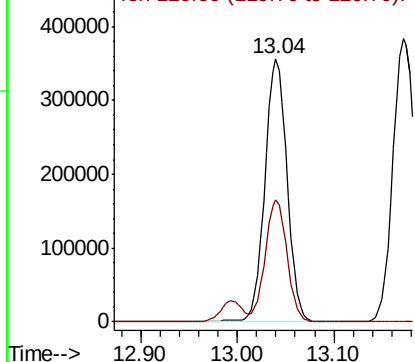
Lab File: VN050586.D

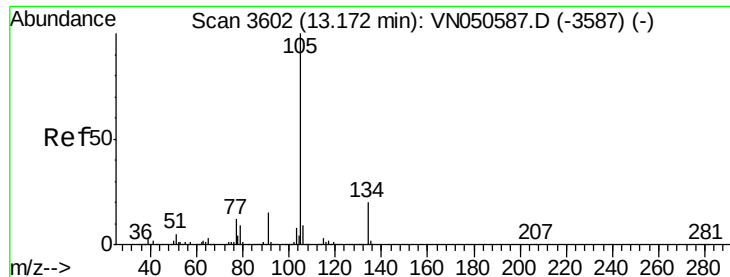
Acq: 14 Aug 2018 00:35

Tgt Ion:	105	Resp:	566422
Ion Ratio	Lower	Upper	
105	100		
120	45.8	23.2	69.5



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





#85

sec-Butylbenzene

Concen: 20.64 ug/l

RT: 13.17 min Scan# 3602

Delta R.T. 0.00 min

Lab File: VN050586.D

Acq: 14 Aug 2018 00:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 616851

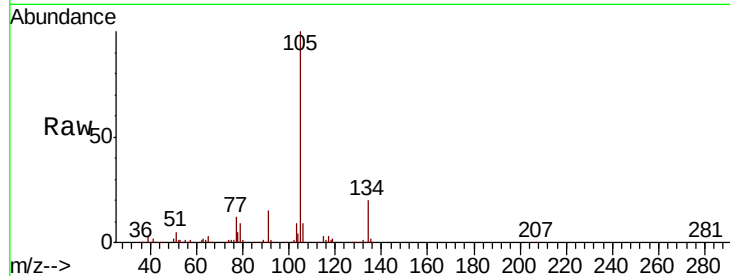
Ion Ratio Lower Upper

105 100

134 20.3 10.1 30.3

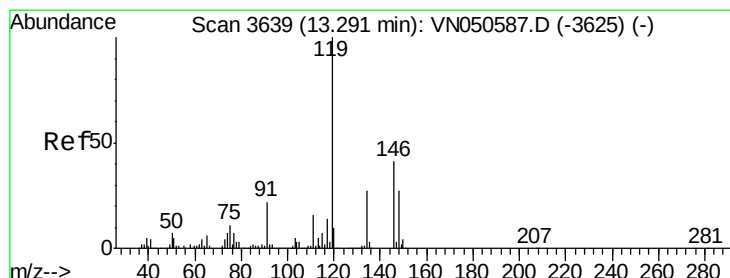
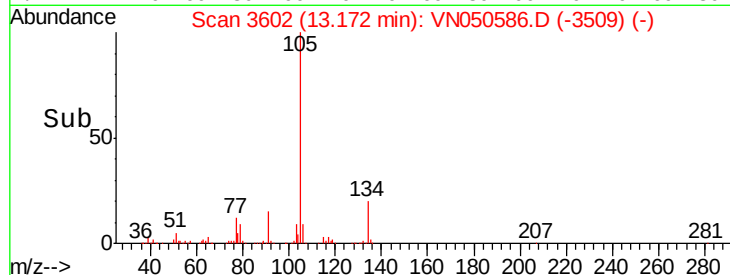
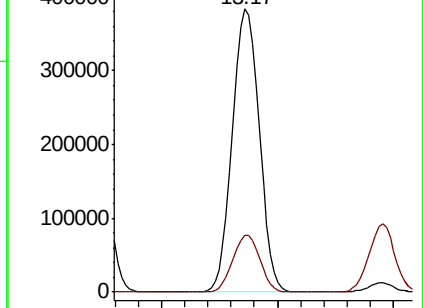
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 20.63 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN050586.D

Acq: 14 Aug 2018 00:35

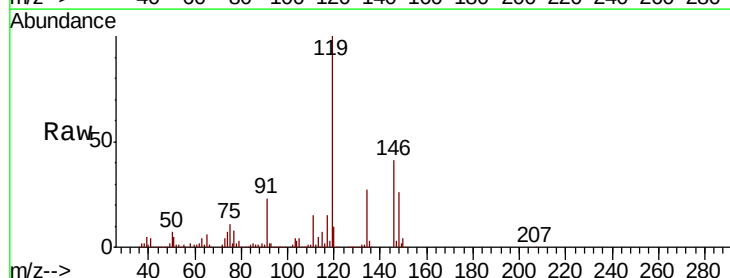
Tgt Ion:119 Resp: 527638

Ion Ratio Lower Upper

119 100

134 27.1 13.5 40.4

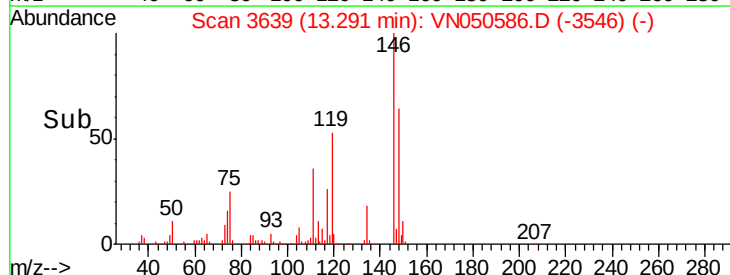
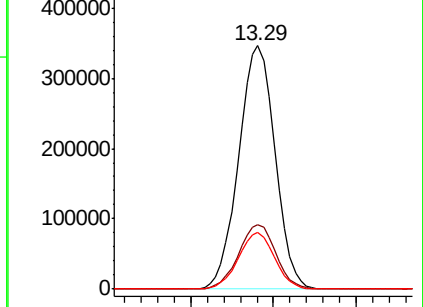
91 23.0 11.2 33.6

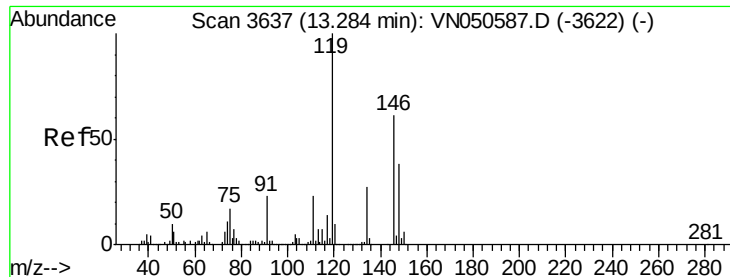


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





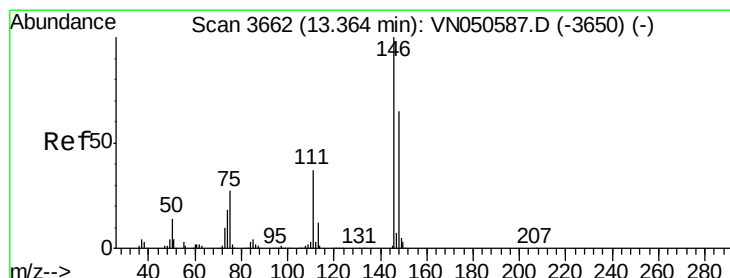
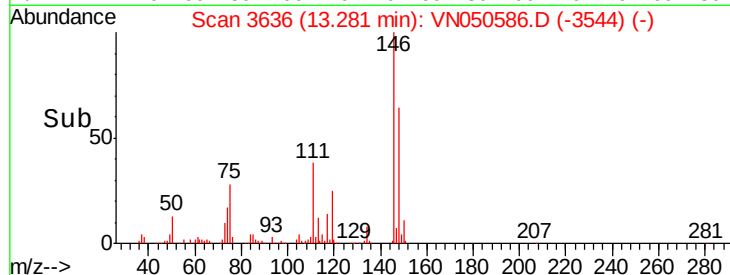
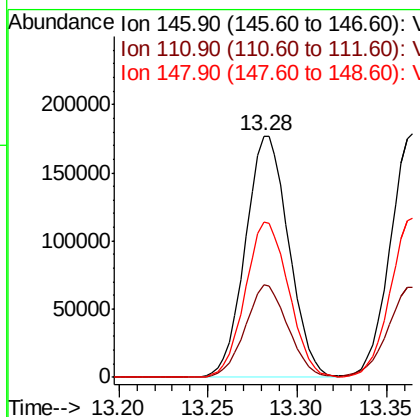
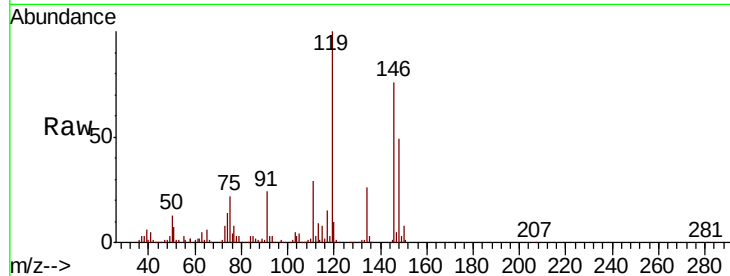
#87
 1,3-Dichlorobenzene
 Concen: 20.01 ug/l
 RT: 13.28 min Scan# 3636
 Delta R.T. -0.00 min
 Lab File: VN050586.D
 Acq: 14 Aug 2018 00:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.5	19.2	57.6
148	64.4	31.9	95.7

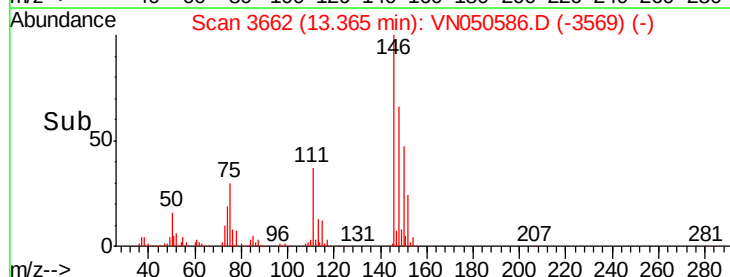
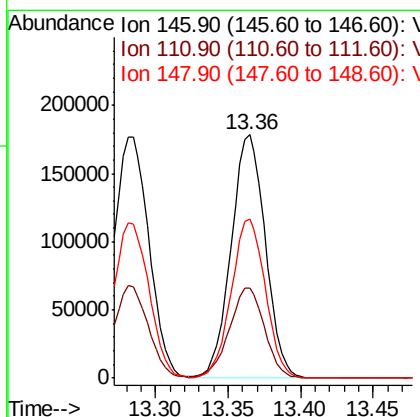
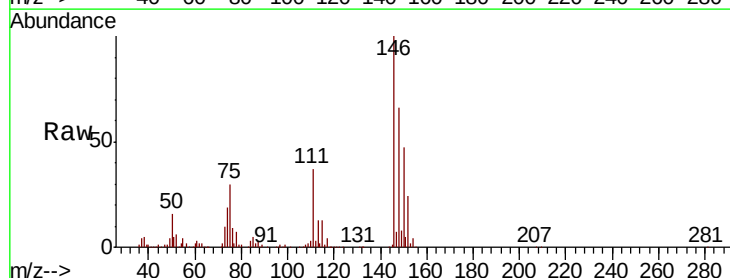
Manual Integrations
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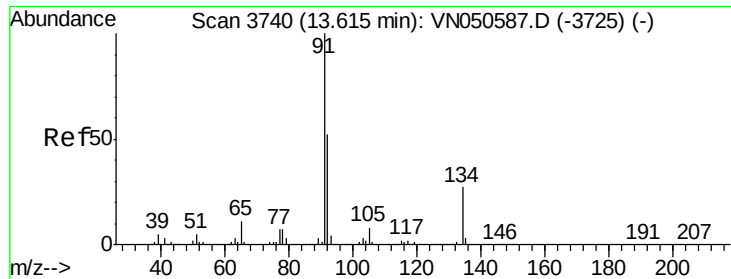
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#88
 1,4-Dichlorobenzene
 Concen: 19.42 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. 0.00 min
 Lab File: VN050586.D
 Acq: 14 Aug 2018 00:35

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.3	18.8	56.4
148	65.2	32.3	96.8





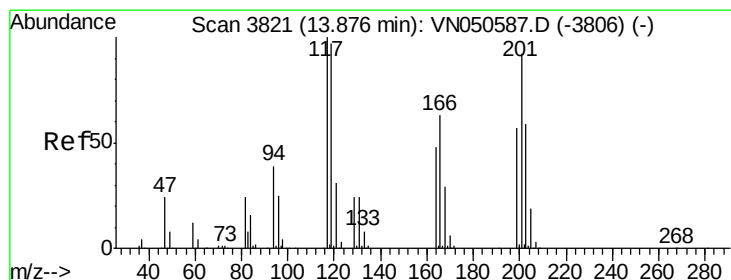
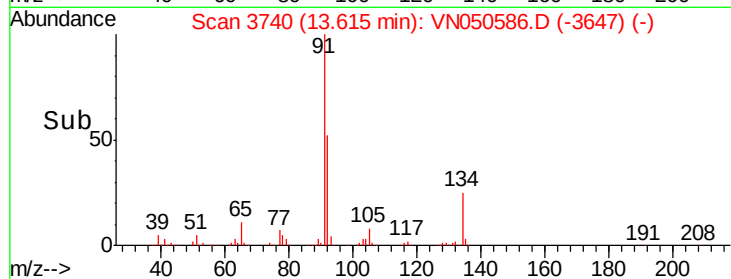
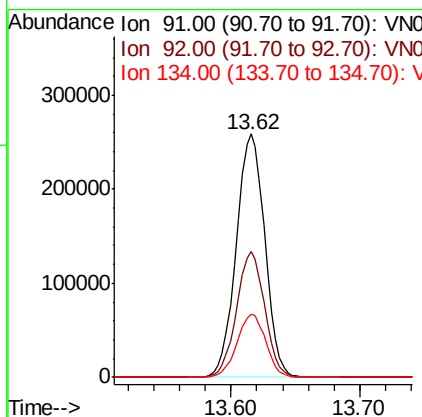
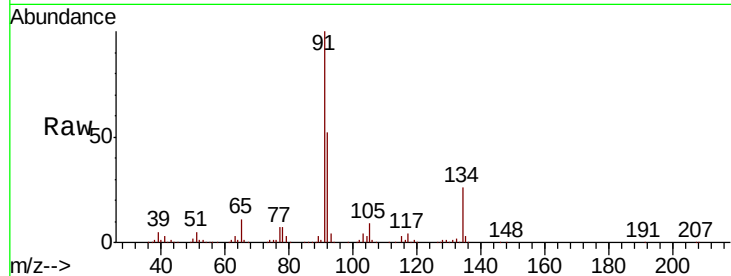
#89
n-Butylbenzene
Concen: 18.42 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. 0.00 min
Lab File: VN050586.D
Acq: 14 Aug 2018 00:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.8	26.3	78.8
134	26.1	13.3	39.9

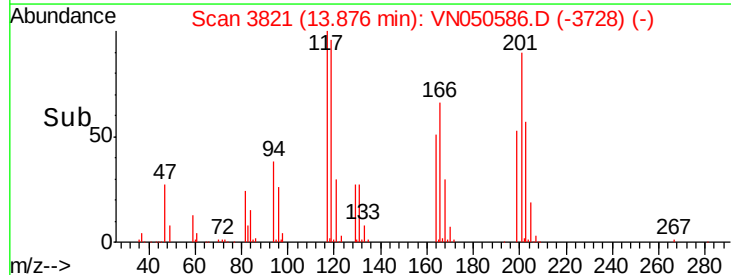
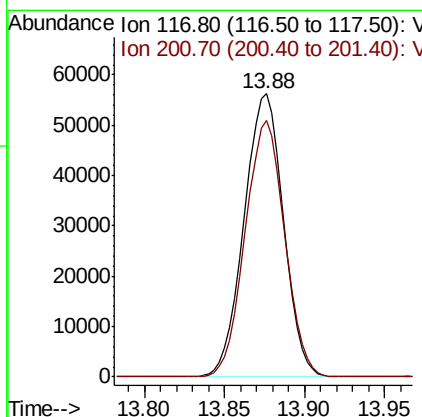
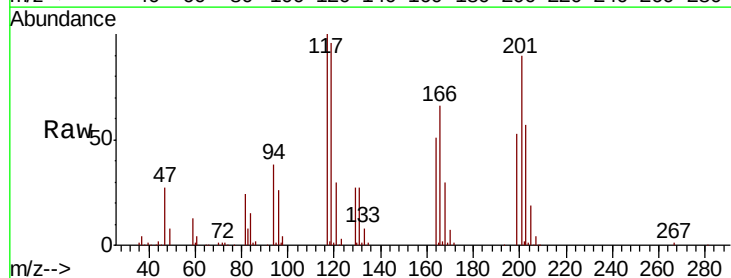
Manual Integrations
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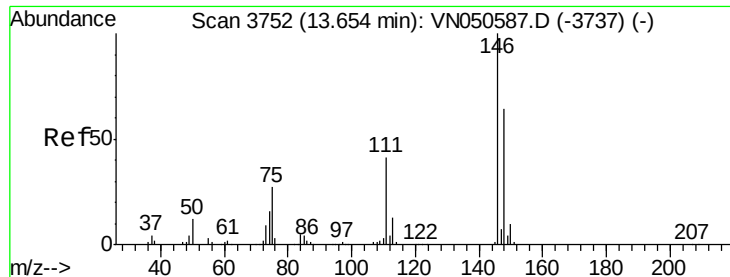
MMDadoda
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#90
Hexachloroethane
Concen: 20.61 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. 0.00 min
Lab File: VN050586.D
Acq: 14 Aug 2018 00:35

Tgt Ion	Ratio	Lower	Upper
117	100		
201	90.6	45.5	136.5





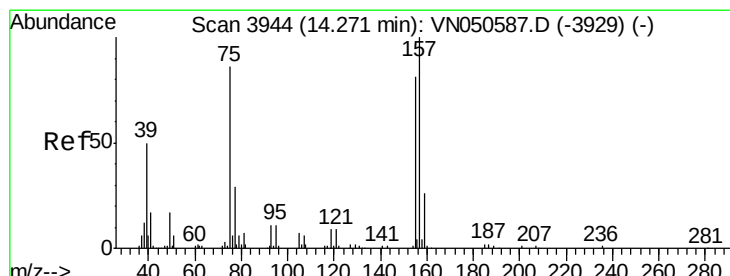
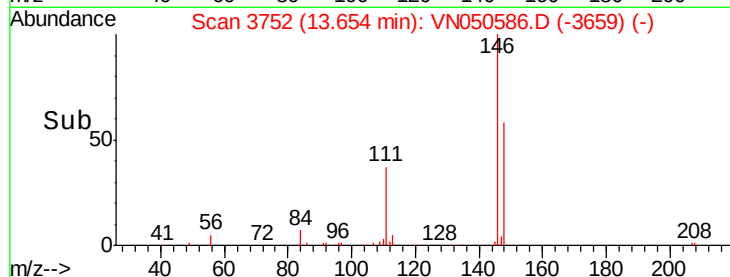
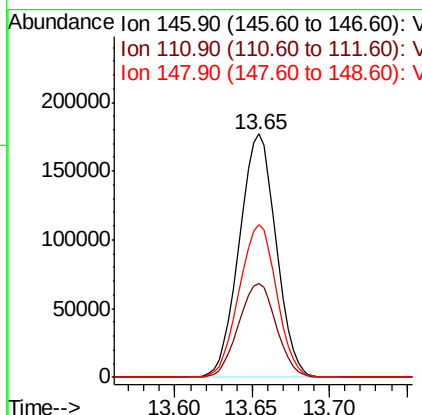
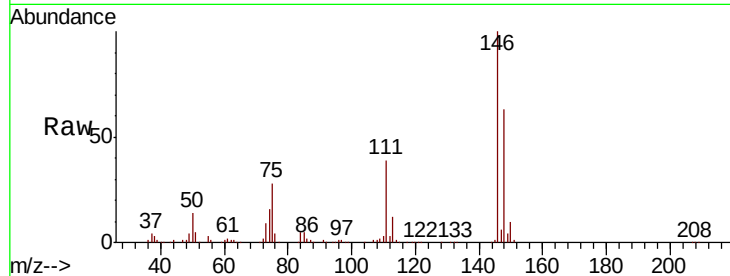
#91
 1,2-Dichlorobenzene
 Concen: 19.52 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. 0.00 min
 Lab File: VN050586.D
 Acq: 14 Aug 2018 00:35

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.4	19.8	59.4
148	63.9	32.3	96.8

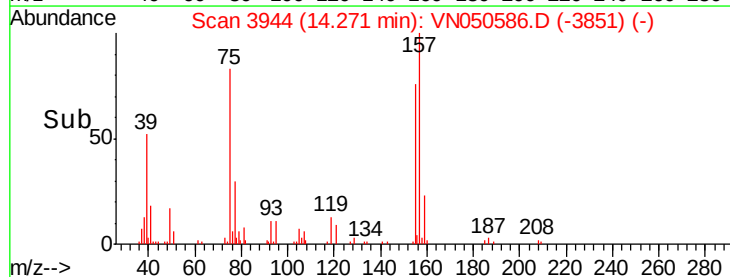
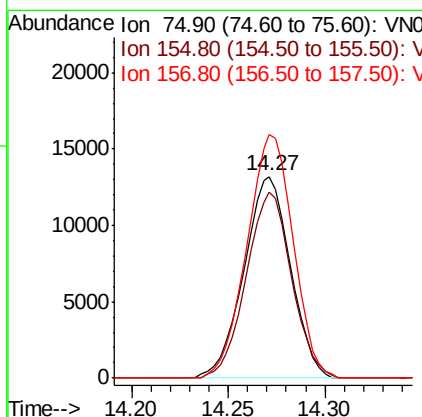
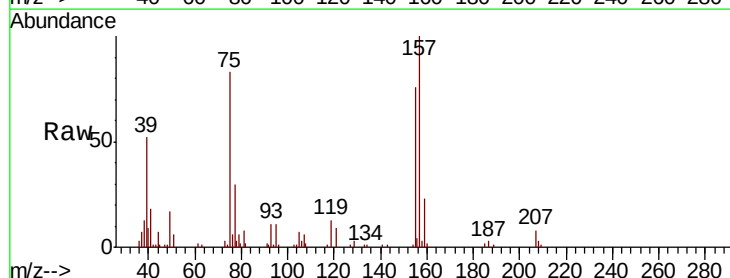
Manual Integrations
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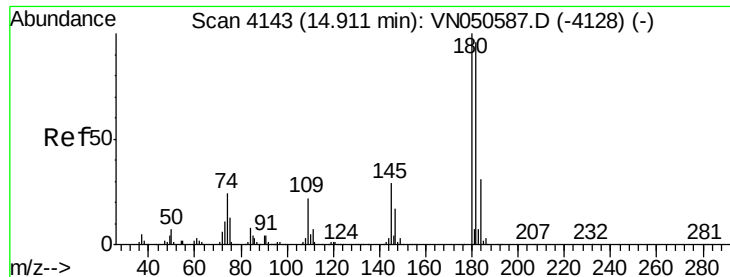
MMDadoda
 8/15/2018 3:21:04 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 14.78 ug/l
 RT: 14.27 min Scan# 3944
 Delta R.T. 0.00 min
 Lab File: VN050586.D
 Acq: 14 Aug 2018 00:35

Tgt Ion	Ratio	Lower	Upper
75	100		
155	89.7	46.6	139.8
157	119.9	58.1	174.2





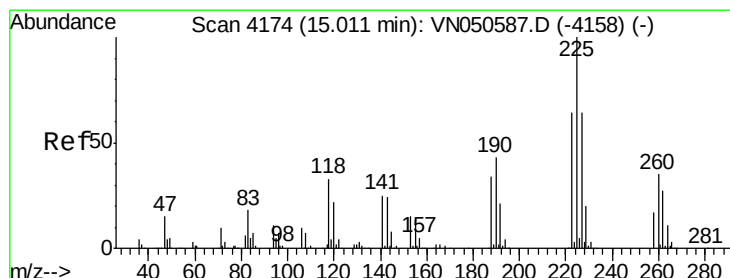
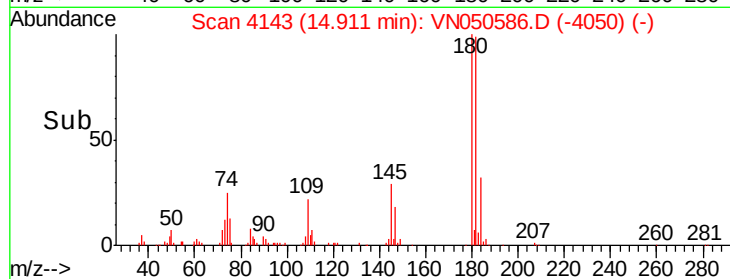
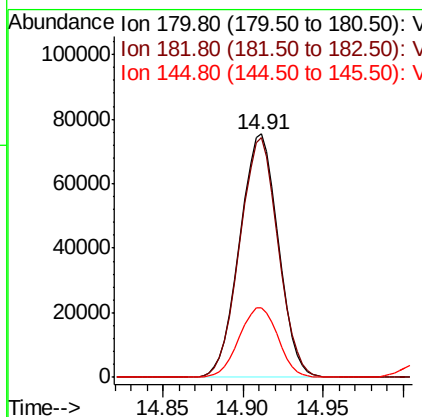
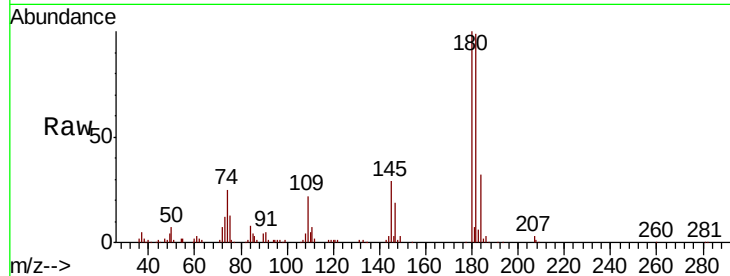
#93
 1,2,4-Trichlorobenzene
 Concen: 16.42 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN050586.D
 Acq: 14 Aug 2018 00:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion:	180	Resp:	124128
Ion Ratio	Lower	Upper	
180	100		
182	98.1	47.9	143.7
145	29.0	14.4	43.4

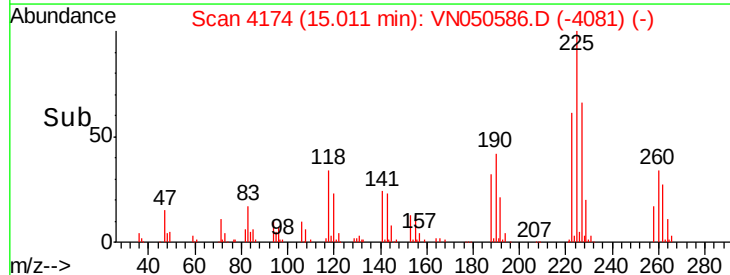
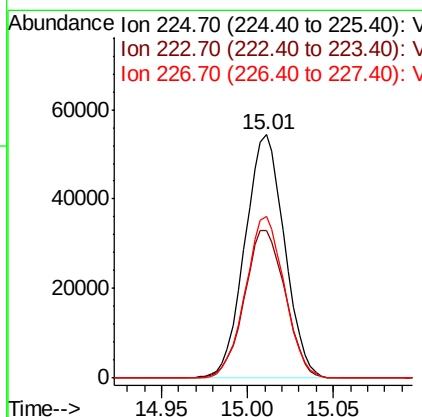
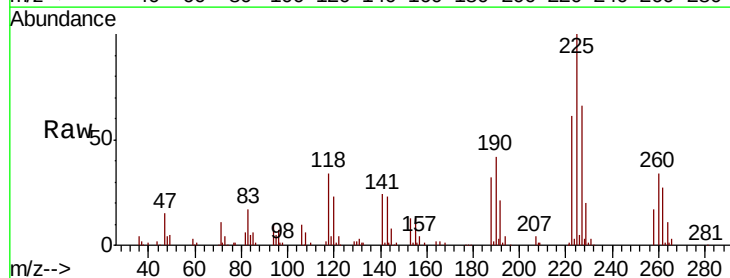
Manual Integrations
 APPROVED

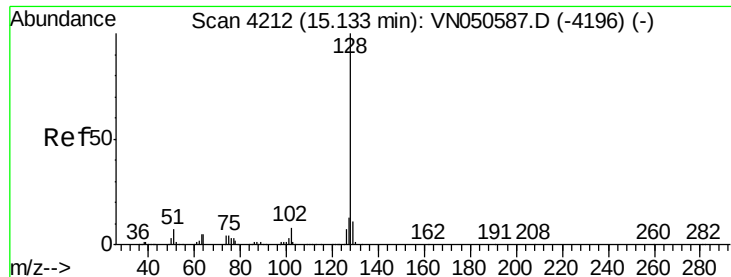
MMDadoda
 8/15/2018 3:21:04 PM



#94
 Hexachlorobutadiene
 Concen: 15.75 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. 0.00 min
 Lab File: VN050586.D
 Acq: 14 Aug 2018 00:35

Tgt Ion:	225	Resp:	86763
Ion Ratio	Lower	Upper	
225	100		
223	62.6	32.1	96.3
227	65.7	32.0	96.2





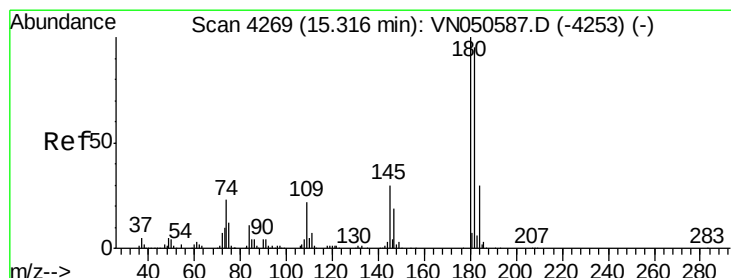
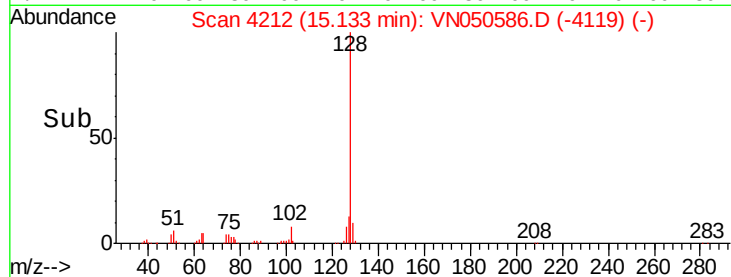
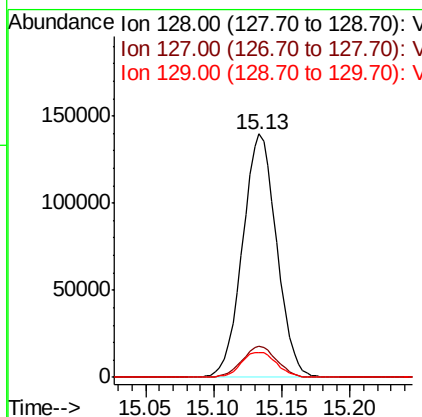
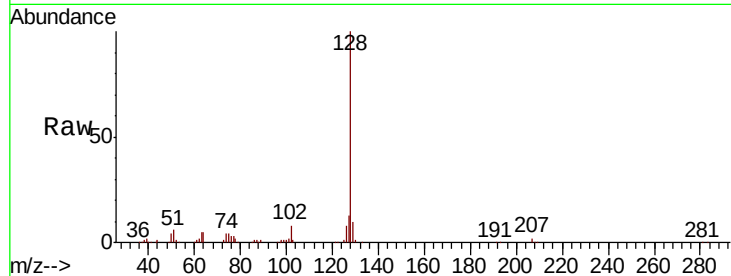
#95
Naphthalene
Concen: 14.15 ug/l
RT: 15.13 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN050586.D
Acq: 14 Aug 2018 00:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
128	100	241886		
127	13.2	10.3	15.5	
129	10.8	8.5	12.7	

Manual Integrations
APPROVED

MMDadoda
8/15/2018 3:21:04 PM



#96
1,2,3-Trichlorobenzene
Concen: 16.01 ug/l
RT: 15.32 min Scan# 4269
Delta R.T. 0.00 min
Lab File: VN050586.D
Acq: 14 Aug 2018 00:35

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	122308		
182	98.1	47.3	141.8	
145	29.9	14.6	44.0	

