

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080618\
 Data File : VN050377.D
 Acq On : 6 Aug 2018 12:00
 Operator : MD\SY
 Sample : VSTDIC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 8/7/2018 9:58:01 AM

Quant Time: Aug 06 12:51:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 06 12:50:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	647297	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	963495	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	887932	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	468647	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	180213	19.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	39.90%	
35) Dibromofluoromethane	7.59	113	159008	20.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.42%	
50) Toluene-d8	10.09	98	592828	20.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.00%	
62) 4-Bromofluorobenzene	12.40	95	195581	20.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.08%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	152755	16.42	ug/l	100
3) Chloromethane	2.06	50	185701	18.37	ug/l	99
4) Vinyl Chloride	2.18	62	194617	18.28	ug/l	99
5) Bromomethane	2.56	94	88855	13.57	ug/l	99
6) Chloroethane	2.70	64	119167	18.64	ug/l	98
7) Trichlorofluoromethane	3.01	101	247189	17.92	ug/l	100
8) Diethyl Ether	3.41	74	88749	19.30	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.75	101	154687	18.65	ug/l	98
10) Methyl Iodide	3.95	142	52724	4.95	ug/l	98
11) Tert butyl alcohol	4.80	59	66419	99.95	ug/l #	87
12) 1,1-Dichloroethene	3.73	96	141757	19.00	ug/l	97
13) Acrolein	3.61	56	93037	174.26	ug/l	98
14) Allyl chloride	4.32	41	224996	19.45	ug/l	98
15) Acrylonitrile	5.00	53	291398	100.51	ug/l	100
16) Acetone	3.82	43	255057	108.29	ug/l	98
17) Carbon Disulfide	4.05	76	440976	19.29	ug/l	100
18) Methyl Acetate	4.33	43	133986	12.43	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	404519	20.35	ug/l	100
20) Methylene Chloride	4.55	84	171260	18.89	ug/l	99
21) trans-1,2-Dichloroethene	5.04	96	154511	19.55	ug/l	97
22) Diisopropyl ether	5.96	45	486548	21.21	ug/l	97
23) Vinyl Acetate	5.90	43	1695709	104.61	ug/l	100
24) 1,1-Dichloroethane	5.85	63	290030	19.34	ug/l	99
25) 2-Butanone	6.84	43	427740	124.17	ug/l	99
26) 2,2-Dichloropropane	6.83	77	237051	20.77	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	171050	20.10	ug/l	98
28) Bromochloromethane	7.20	49	137627	20.12	ug/l	100
29) Tetrahydrofuran	7.22	42	227591	102.24	ug/l	99
30) Chloroform	7.37	83	290046	18.95	ug/l	99
31) Cyclohexane	7.66	56	253157	17.58	ug/l	94
32) 1,1,1-Trichloroethane	7.57	97	247451	18.90	ug/l	99
36) 1,1-Dichloropropene	7.79	75	217911	20.07	ug/l	99
37) Ethyl Acetate	6.93	43	157676	20.83	ug/l	100
38) Carbon Tetrachloride	7.78	117	219911	19.09	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	231850	20.76	ug/l	99
40) Benzene	8.04	78	666763	20.19	ug/l	99
41) Methacrylonitrile	7.18	41	77241	21.76	ug/l #	81
42) 1,2-Dichloroethane	8.13	62	210907	19.14	ug/l	100
43) Isopropyl Acetate	8.17	43	261171	14.26	ug/l	98
44) Trichloroethene	8.84	130	177612	20.01	ug/l	99
45) 1,2-Dichloropropane	9.12	63	175735	20.09	ug/l	97
46) Dibromomethane	9.21	93	107179	19.73	ug/l	98
47) Bromodichloromethane	9.41	83	220460	19.23	ug/l	98
48) Methyl methacrylate	9.20	41	133493	20.48	ug/l	99
49) 1,4-Dioxane	9.20	88	39457	444.82	ug/l	95
51) 4-Methyl-2-Pentanone	9.99	43	974939	131.04	ug/l	100
52) Toluene	10.16	92	407599	20.90	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	220522	20.38	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	253538	20.50	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	155733	20.14	ug/l	99
56) Ethyl methacrylate	10.43	69	193590	21.19	ug/l	99
57) 1,3-Dichloropropane	10.71	76	256736	20.39	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	454633	106.90	ug/l	100
59) 2-Hexanone	10.75	43	666545	135.77	ug/l	100
60) Dibromochloromethane	10.90	129	166363	19.43	ug/l	98
61) 1,2-Dibromoethane	11.01	107	154918	20.19	ug/l	100
64) Tetrachloroethene	10.63	164	173285	20.30	ug/l	100
65) Chlorobenzene	11.44	112	442813	19.74	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	163122	18.93	ug/l	99
67) Ethyl Benzene	11.51	91	734132	20.38	ug/l	100
68) m/p-Xylenes	11.62	106	582518	42.74	ug/l	100
69) o-Xylene	11.95	106	276615	21.29	ug/l	99
70) Styrene	11.97	104	452988	22.05	ug/l	100
71) Bromoform	12.13	173	119227	19.02	ug/l #	99
73) Isopropylbenzene	12.25	105	730969	20.11	ug/l	100
74) N-amyl acetate	12.07	43	226524	20.39	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	202753	18.24	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	164505m	18.89	ug/l	
77) Bromobenzene	12.53	156	192867	19.15	ug/l	100
78) n-propylbenzene	12.59	91	833503	20.52	ug/l	99
79) 2-Chlorotoluene	12.68	91	511991	20.33	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	612278	21.42	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	46347	16.88	ug/l	98
82) 4-Chlorotoluene	12.77	91	514233	20.62	ug/l	99
83) tert-Butylbenzene	12.99	119	515963	20.68	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	628406	21.81	ug/l	99
85) sec-Butylbenzene	13.17	105	700883	21.02	ug/l	99
86) p-Isopropyltoluene	13.29	119	604115	21.51	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	341798	20.02	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	333265	20.02	ug/l	99
89) n-Butylbenzene	13.62	91	475882	20.60	ug/l	100
90) Hexachloroethane	13.88	117	93344	14.97	ug/l	100
91) 1,2-Dichlorobenzene	13.65	146	339673	19.90	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	31468	17.61	ug/l	99

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QLast Update : Mon Aug 06 12:50:03 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	155420	20.63	ug/l	97
94) Hexachlorobutadiene	15.01	225	99457	19.03	ug/l	99
95) Naphthalene	15.14	128	354348	20.81	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	155040	20.33	ug/l	100

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

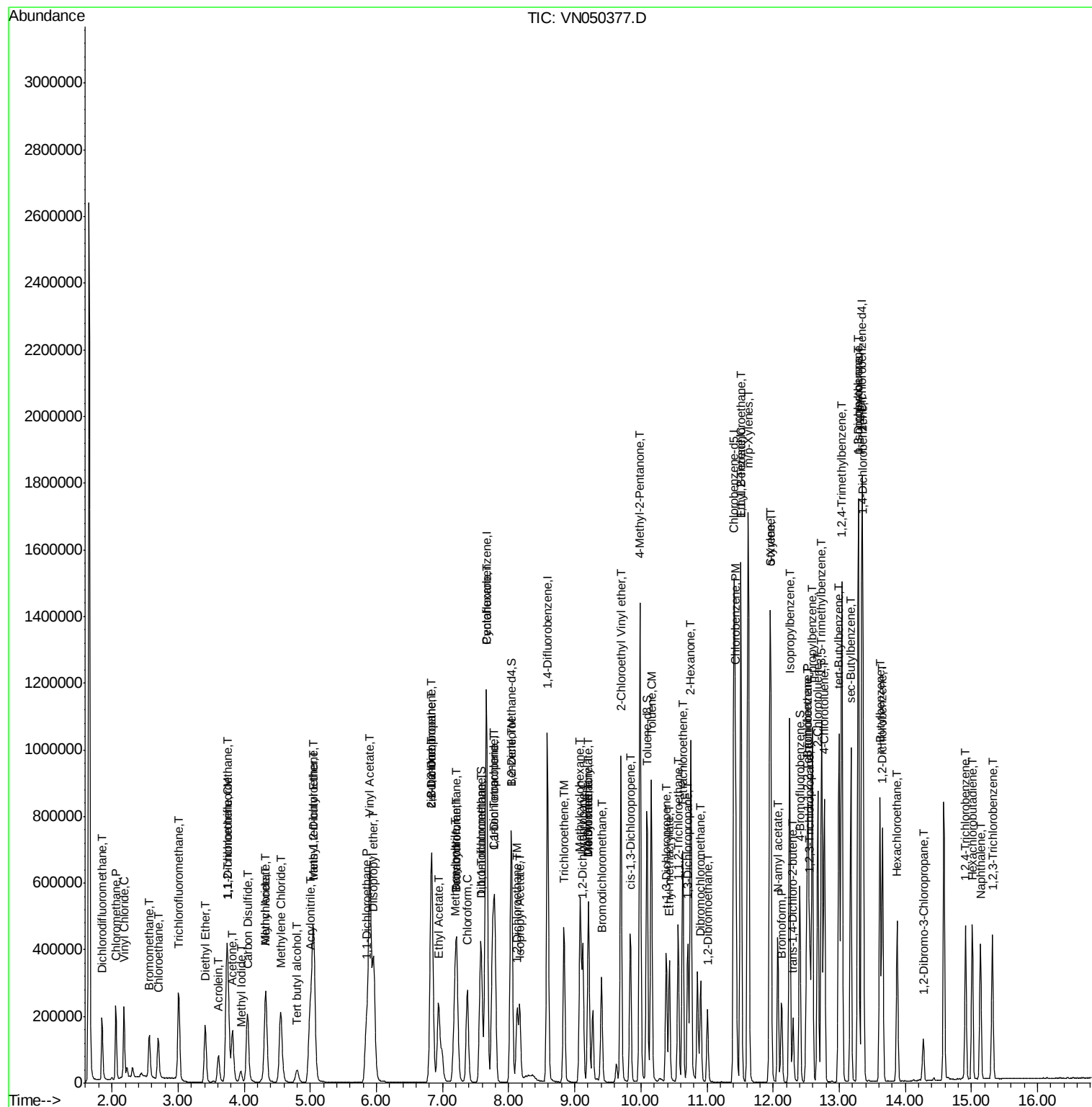
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Operator : MD\SY
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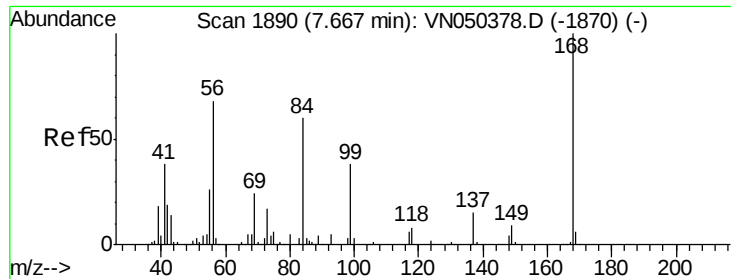
Instrument :
MSVOA_N
Client Sample Id :
VSTDIC020

Manual Integrations
APPROVED

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8/7/2018 9:58:01 AM

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Quant Title : SW846 8260
QLast Update : Mon Aug 06 12:50:03 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN050377.D

Acq: 6 Aug 2018 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 647297

Ion Ratio Lower Upper

168 100

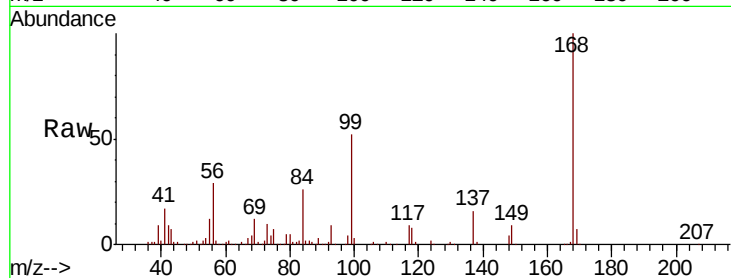
99 51.3 40.0 60.0

Manual Integrations

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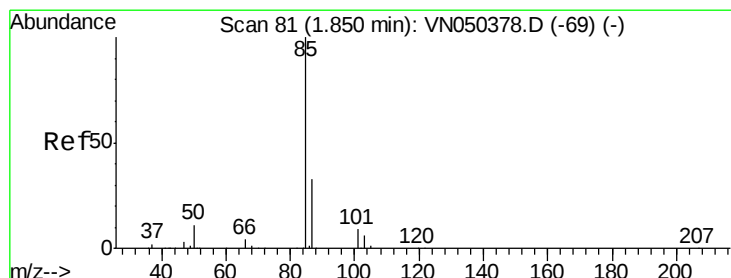
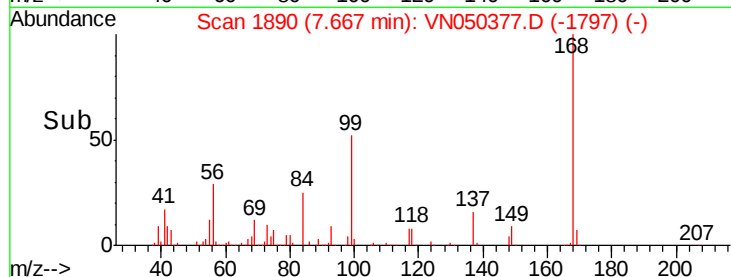
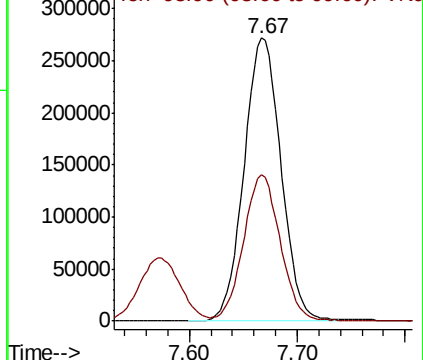
MMDadoda

8/7/2018 9:58:01 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 16.42 ug/l

RT: 1.85 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN050377.D

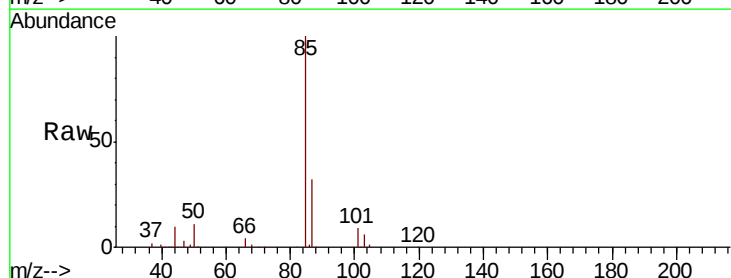
Acq: 6 Aug 2018 12:00

Tgt Ion: 85 Resp: 152755

Ion Ratio Lower Upper

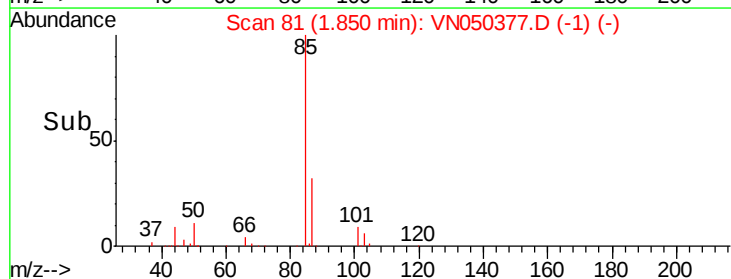
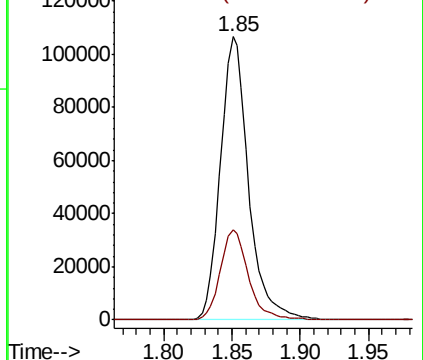
85 100

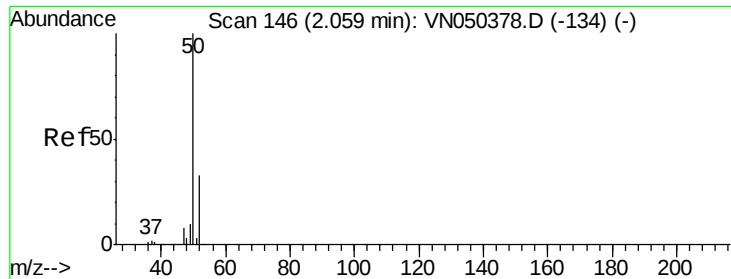
87 32.0 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 18.37 ug/l

RT: 2.06 min Scan# 146

Delta R.T. -0.00 min

Lab File: VN050377.D

Acq: 6 Aug 2018 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 185701

Ion Ratio Lower Upper

50 100

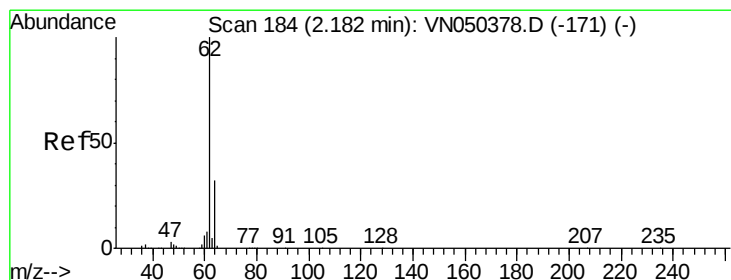
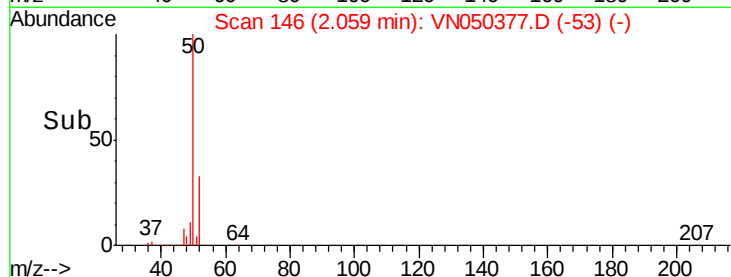
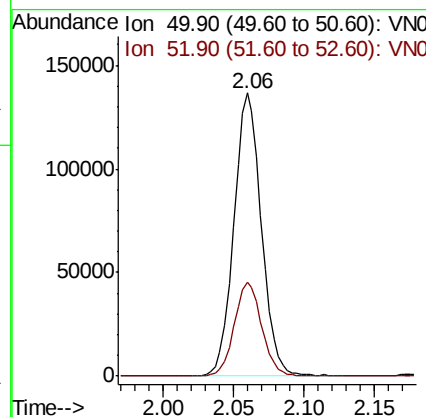
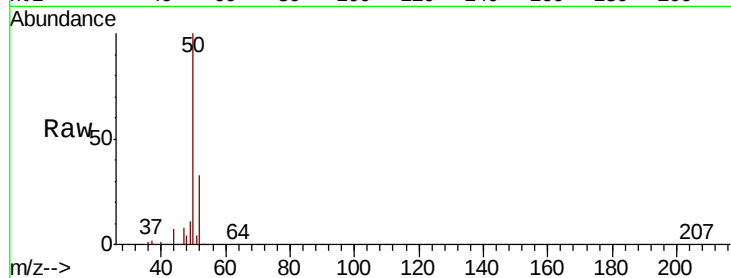
52 33.1 25.9 38.9

Manual Integrations

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#4

Vinyl Chloride

Concen: 18.28 ug/l

RT: 2.18 min Scan# 184

Delta R.T. -0.00 min

Lab File: VN050377.D

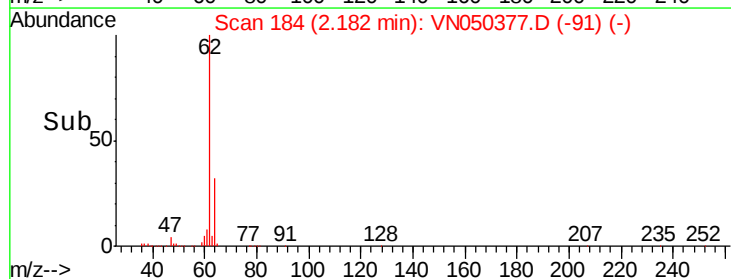
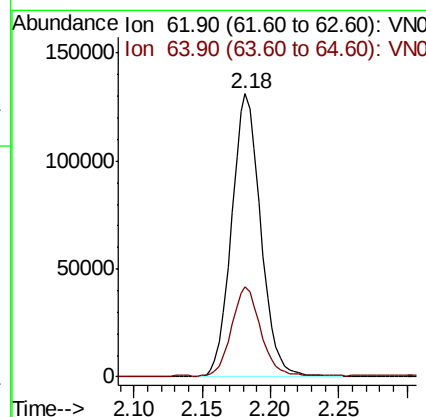
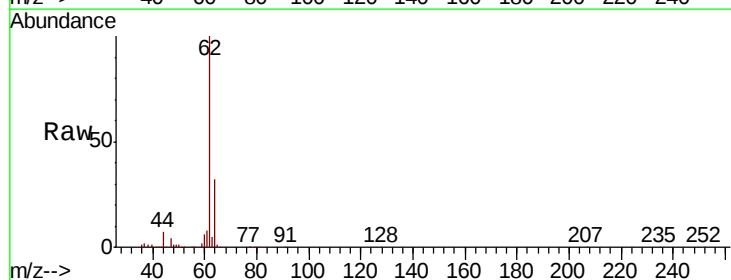
Acq: 6 Aug 2018 12:00

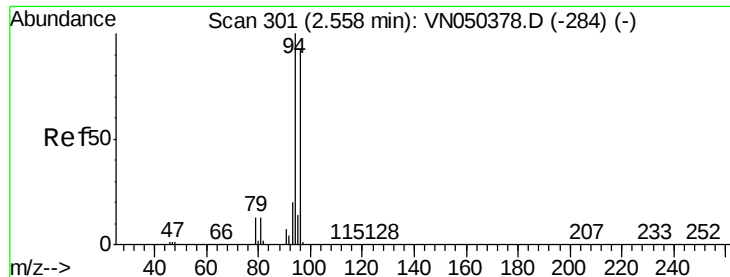
Tgt Ion: 62 Resp: 194617

Ion Ratio Lower Upper

62 100

64 31.4 24.7 37.1





#5

Bromomethane

Concen: 13.57 ug/l

RT: 2.56 min Scan# 303

Delta R.T. 0.01 min

Lab File: VN050377.D

Acq: 6 Aug 2018 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 94 Resp: 88855

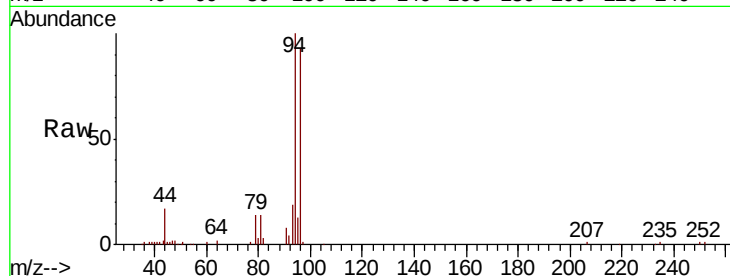
Ion Ratio Lower Upper

94 100

96 92.5 74.6 112.0

Manual Integrations
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Abundance Ion 93.90 (93.60 to 94.60): VN050377.D (-208) (-)

Ion 95.90 (95.60 to 96.60): VN050377.D (-208) (-)

2.56

50000

40000

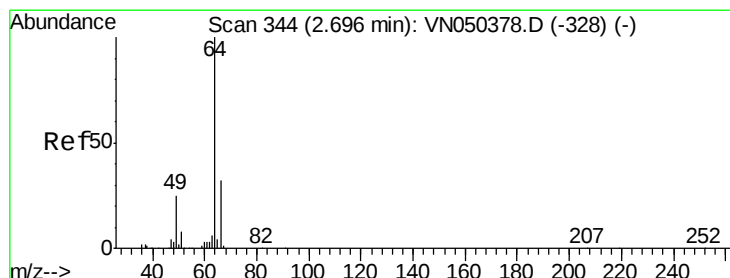
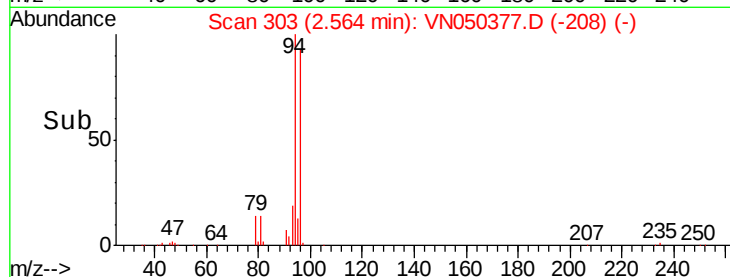
30000

20000

10000

0

Time-->



#6

Chloroethane

Concen: 18.64 ug/l

RT: 2.70 min Scan# 345

Delta R.T. 0.00 min

Lab File: VN050377.D

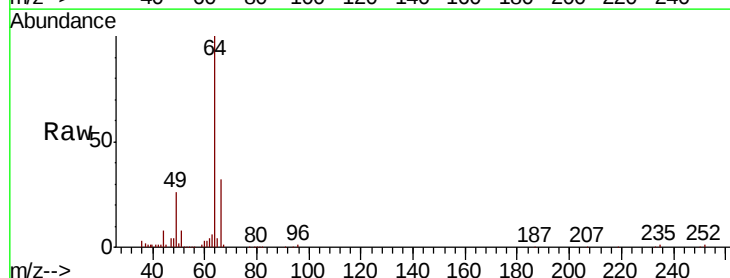
Acq: 6 Aug 2018 12:00

Tgt Ion: 64 Resp: 119167

Ion Ratio Lower Upper

64 100

66 32.7 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VN050377.D (-251) (-)

Ion 65.90 (65.60 to 66.60): VN050377.D (-251) (-)

2.70

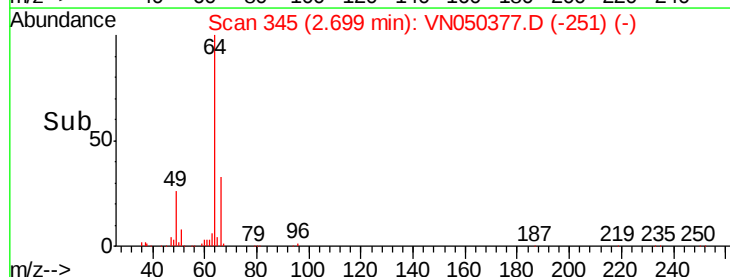
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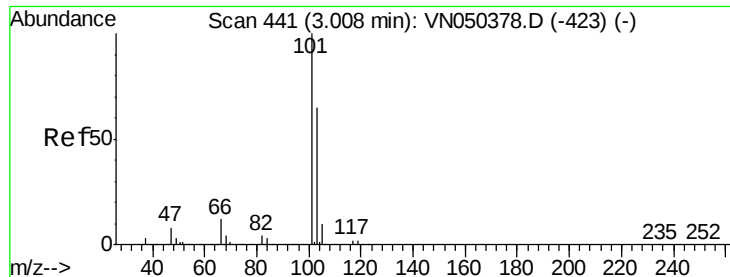
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20000

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Time-->





#7

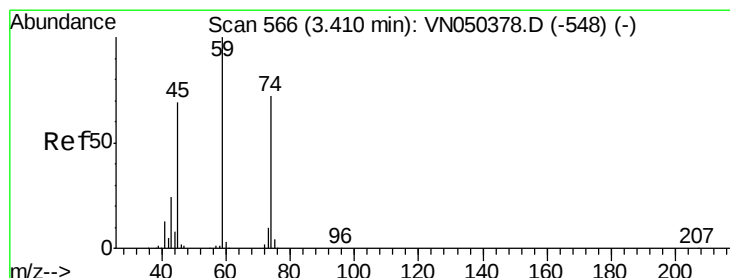
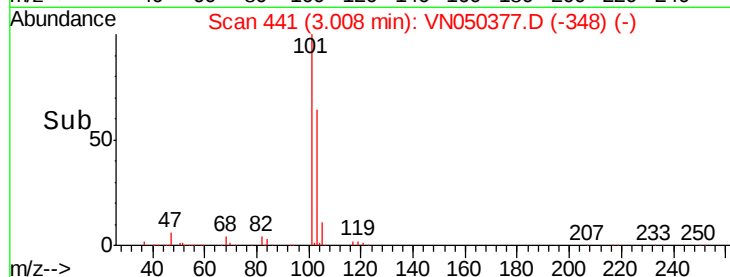
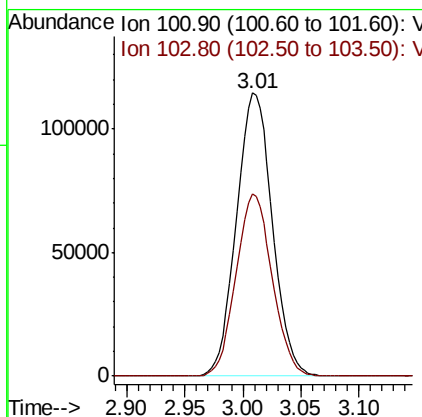
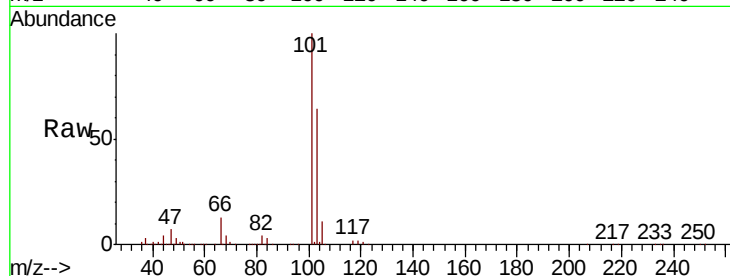
Trichlorofluoromethane
 Concen: 17.92 ug/l
 RT: 3.01 min Scan# 441
 Delta R.T. -0.00 min
 Lab File: VN050377.D
 Acq: 6 Aug 2018 12:00

Instrument :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	64.2	51.7	77.5

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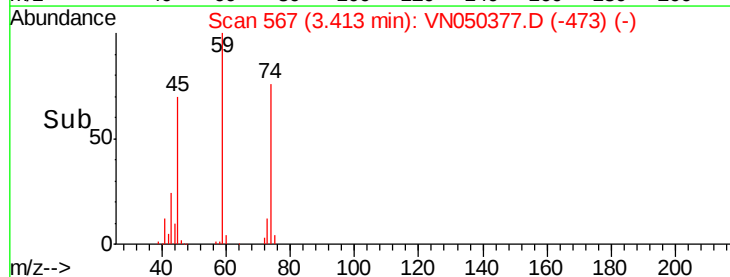
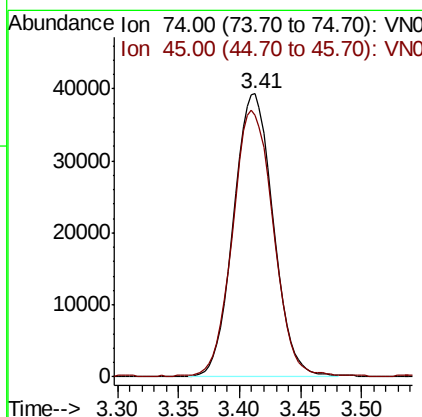
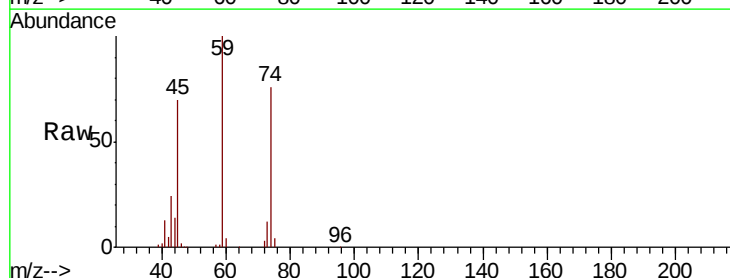
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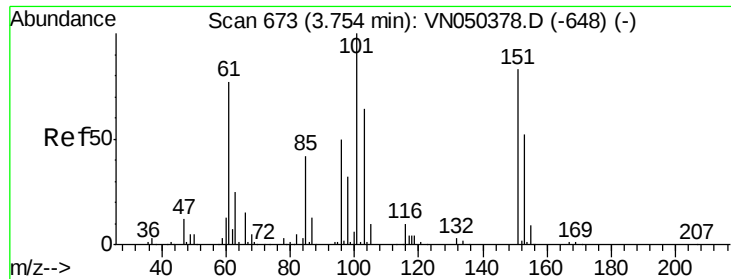


#8

Diethyl Ether
 Concen: 19.30 ug/l
 RT: 3.41 min Scan# 567
 Delta R.T. 0.00 min
 Lab File: VN050377.D
 Acq: 6 Aug 2018 12:00

Tgt Ion	Ratio	Lower	Upper
74	100		
45	97.2	47.6	142.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.65 ug/l

RT: 3.75 min Scan# 673

Delta R.T. -0.00 min

Lab File: VN050377.D

Acq: 6 Aug 2018 12:00

Instrument :

MSVOA_N

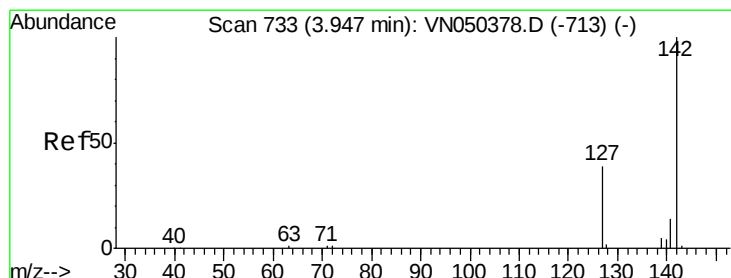
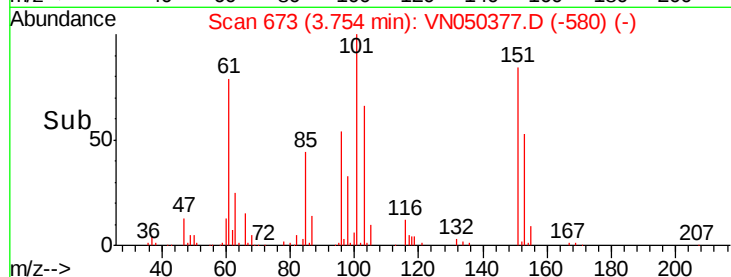
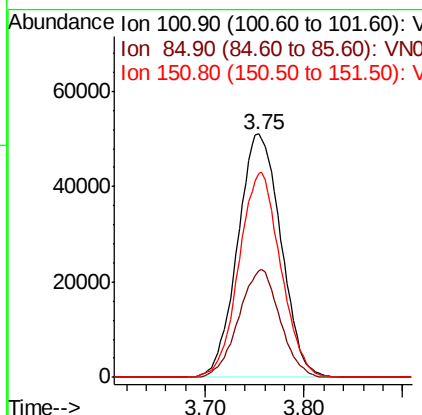
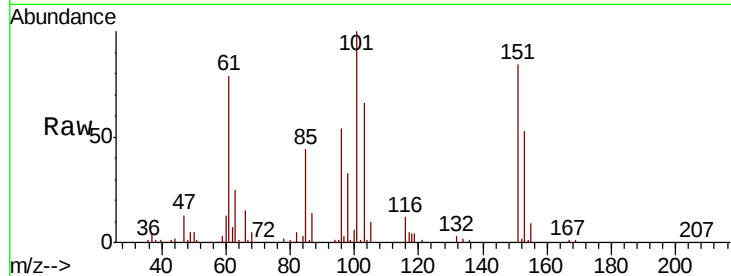
ClientSampleId :

VSTDIC020

Tot Ion:	101	Resp:	154687
Ion Ratio	Lower	Upper	
101	100		
85	42.2	34.2	51.2
151	81.1	66.3	99.5

Manual Integrations
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MMDadoda
8/7/2018 9:58:01 AM



#10

Methyl Iodide

Concen: 4.95 ug/l

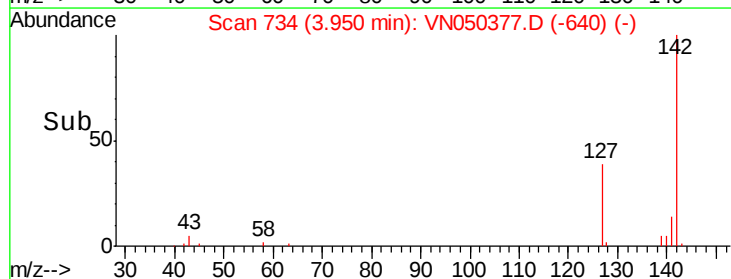
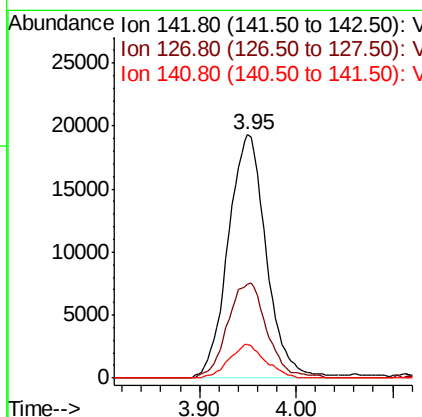
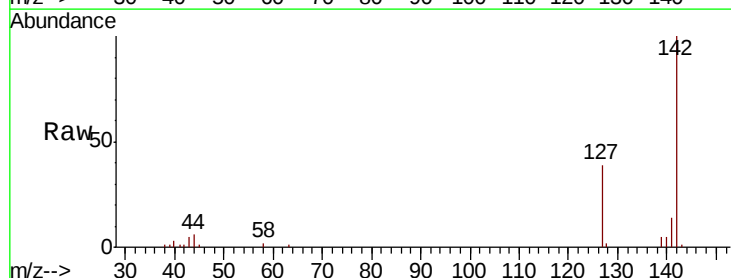
RT: 3.95 min Scan# 734

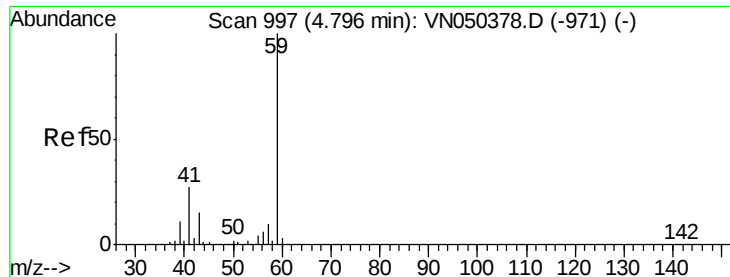
Delta R.T. 0.00 min

Lab File: VN050377.D

Acq: 6 Aug 2018 12:00

Tgt Ion:	142	Resp:	52724
Ion Ratio	Lower	Upper	
142	100		
127	40.4	33.4	50.2
141	13.2	11.6	17.4





#11

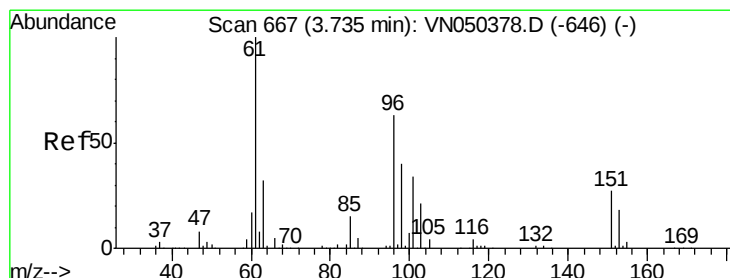
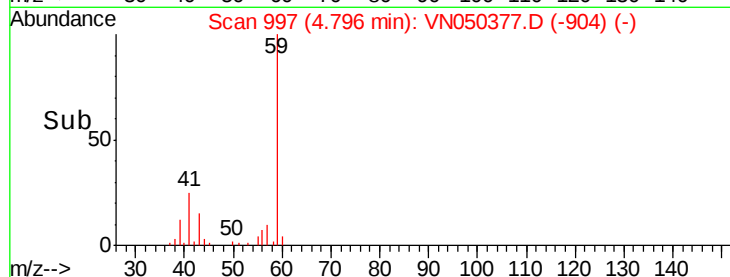
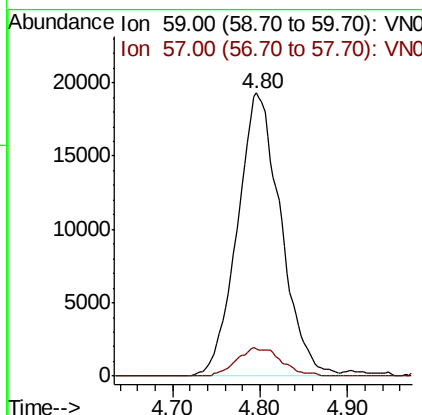
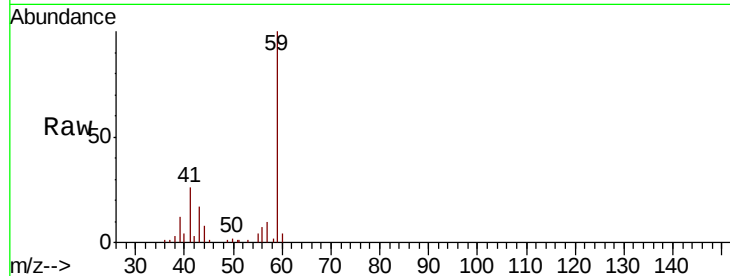
Tert butyl alcohol
 Concen: 99.95 ug/l
 RT: 4.80 min Scan# 997
 Delta R.T. -0.00 min
 Lab File: VN050377.D
 Acq: 6 Aug 2018 12:00

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
59	100		
57	5.8	8.5	12.7#

Manual Integrations
 APPROVED

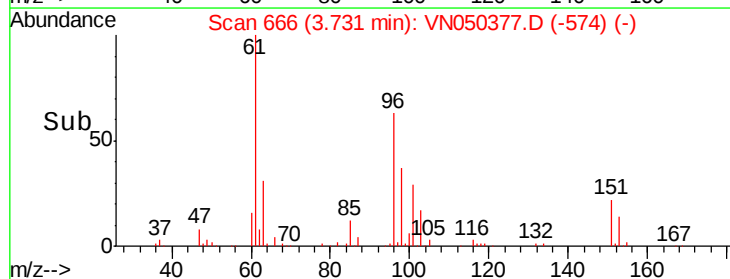
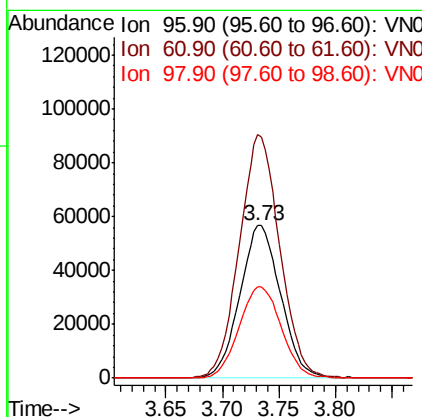
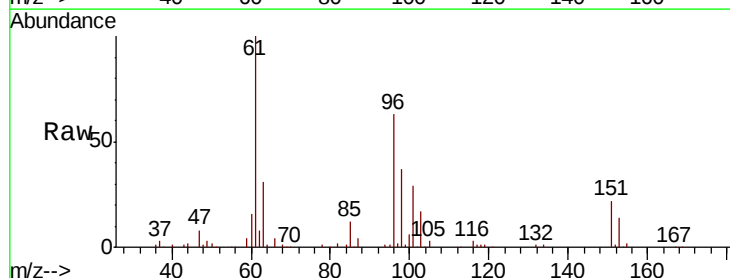
MMDadoda
 8/7/2018 9:58:01 AM

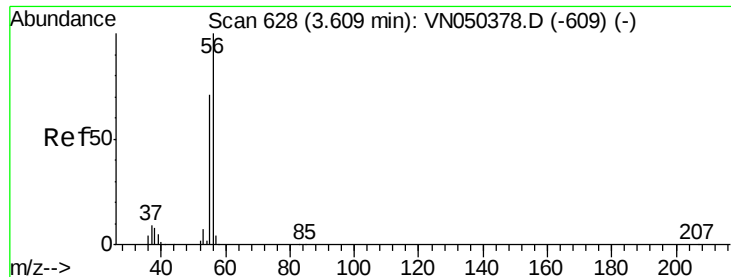


#12

1,1-Dichloroethene
 Concen: 19.00 ug/l
 RT: 3.73 min Scan# 666
 Delta R.T. -0.00 min
 Lab File: VN050377.D
 Acq: 6 Aug 2018 12:00

Tgt Ion	Ratio	Lower	Upper
96	100		
61	159.5	124.4	186.6
98	59.6	48.3	72.5





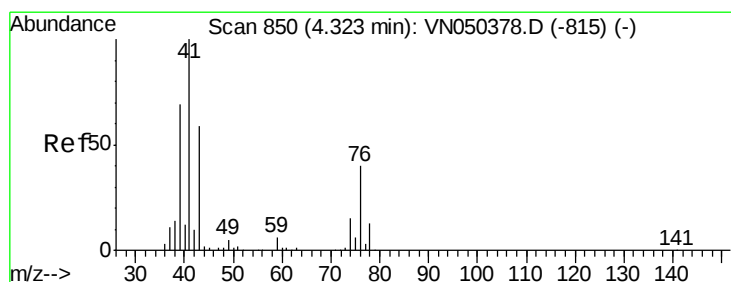
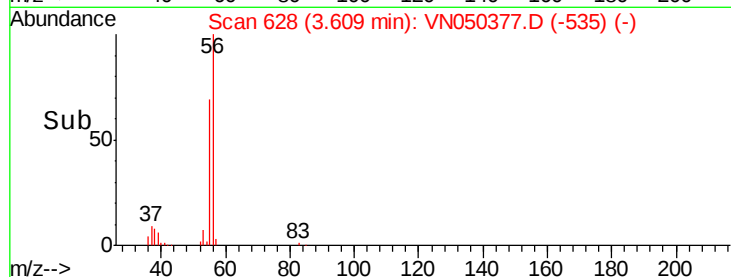
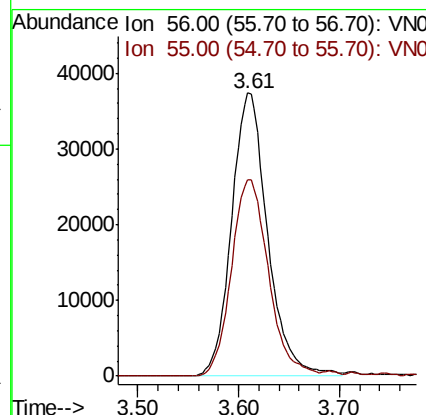
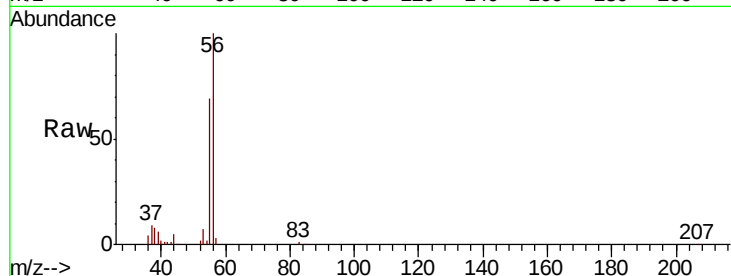
#13
Acrolein
Concen: 174.26 ug/l
RT: 3.61 min Scan# 628
Delta R.T. -0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
56	100		
55	71.2	55.8	83.6

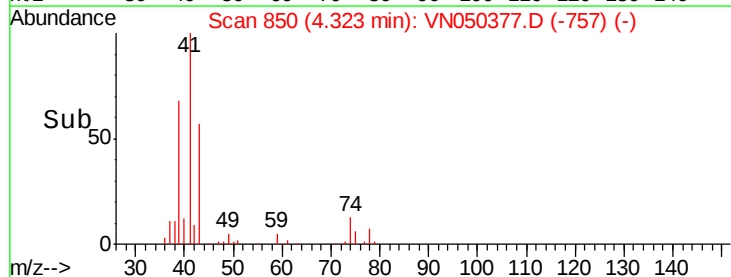
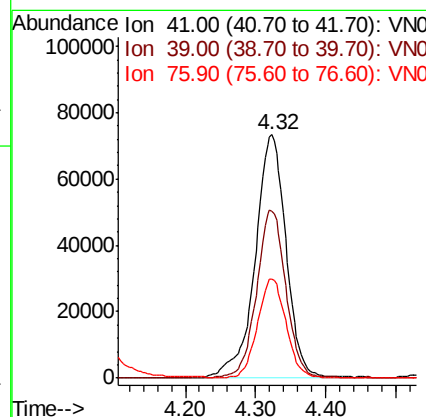
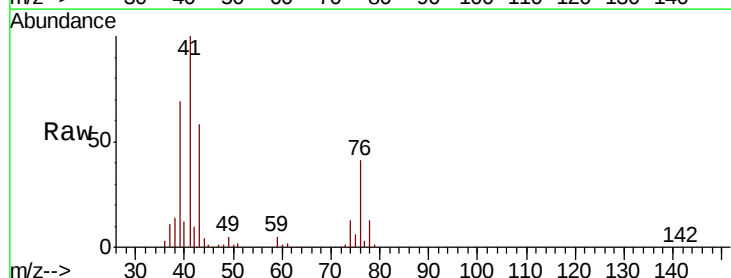
Manual Integrations
APPROVED

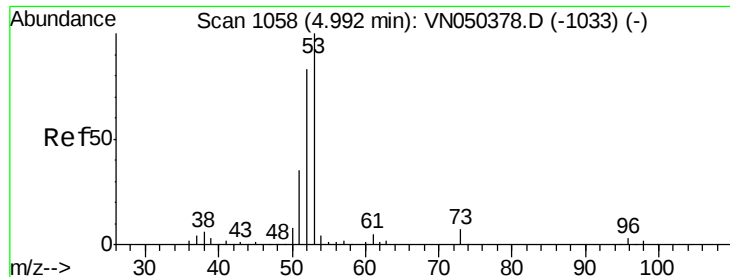
MMDadoda
8/7/2018 9:58:01 AM



#14
Allyl chloride
Concen: 19.45 ug/l
RT: 4.32 min Scan# 850
Delta R.T. -0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Tgt Ion	Ratio	Lower	Upper
41	100		
39	65.2	54.2	81.4
76	36.6	29.0	43.6





#15

Acrylonitrile

Concen: 100.51 ug/l

RT: 5.00 min Scan# 1059

Delta R.T. 0.00 min

Lab File: VN050377.D

Acq: 6 Aug 2018 12:00

Instrument :

MSVOA_N

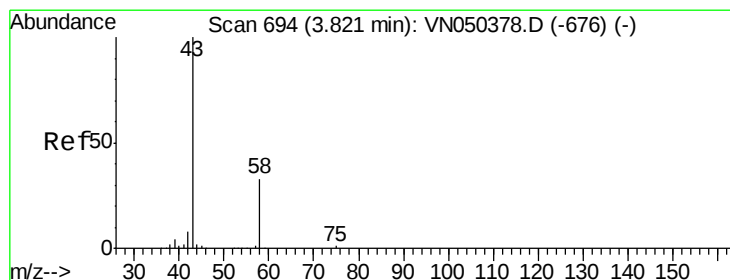
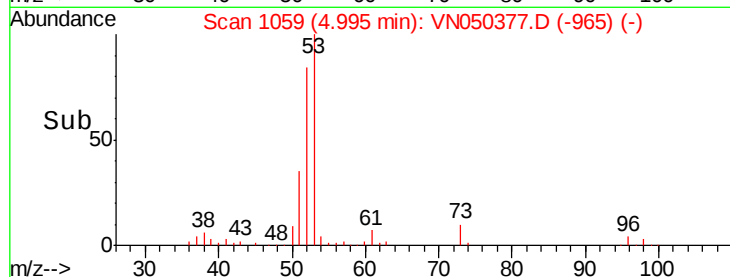
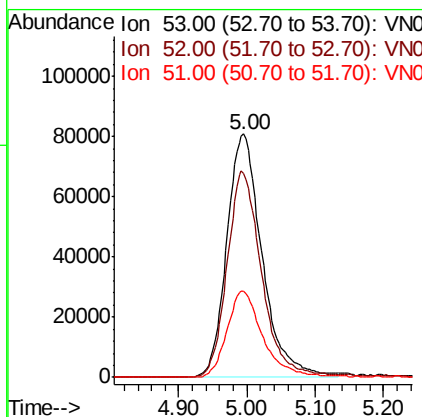
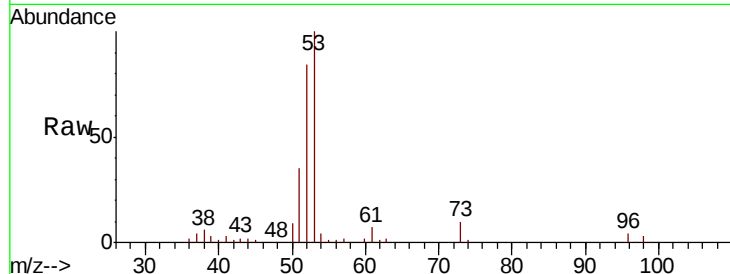
ClientSampled :

VSTDIC020

Tot Ion:	53	Resp:	291398
Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.2	99.2
51	36.0	29.3	43.9

Manual Integrations
APPROVED

MMDadoda
8/7/2018 9:58:01 AM



#16

Acetone

Concen: 108.29 ug/l

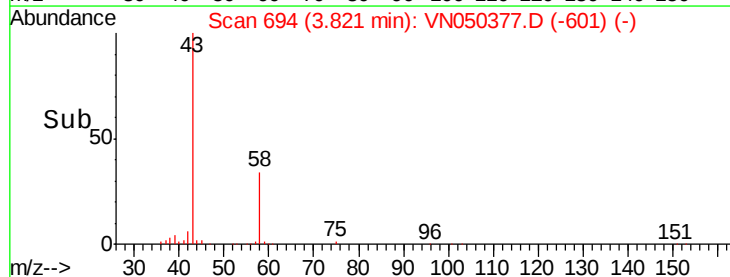
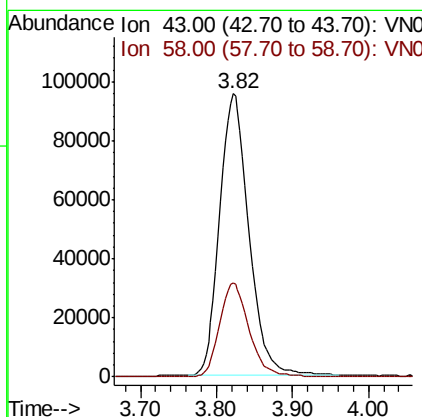
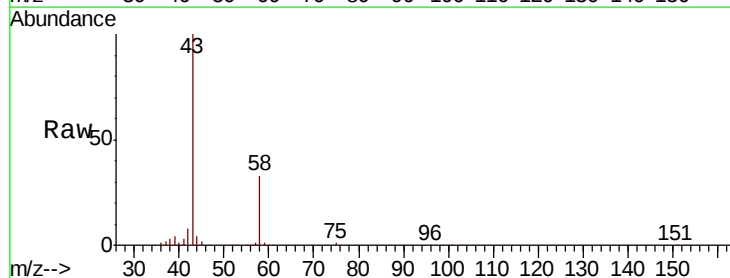
RT: 3.82 min Scan# 694

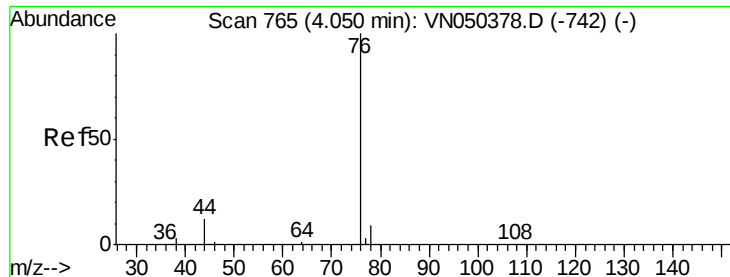
Delta R.T. -0.00 min

Lab File: VN050377.D

Acq: 6 Aug 2018 12:00

Tgt Ion:	43	Resp:	255057
Ion	Ratio	Lower	Upper
43	100		
58	33.5	25.8	38.8





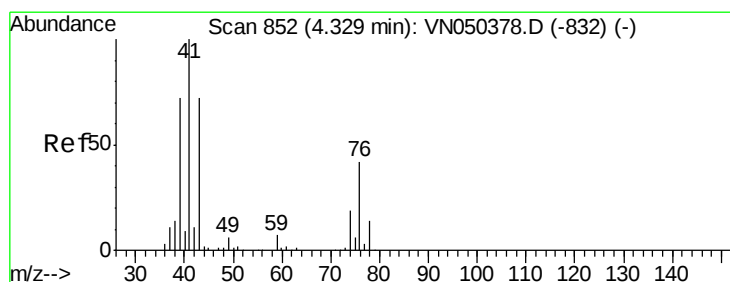
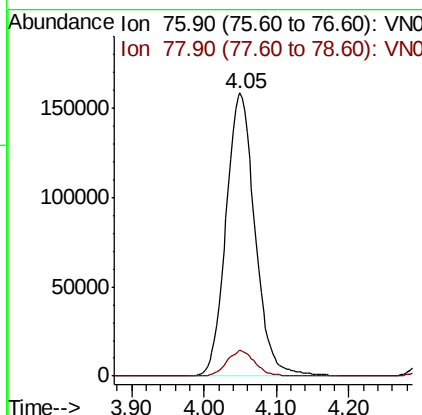
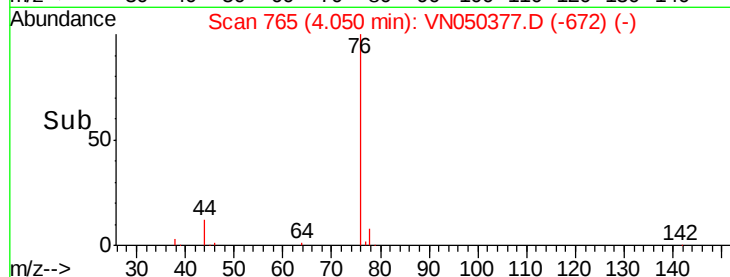
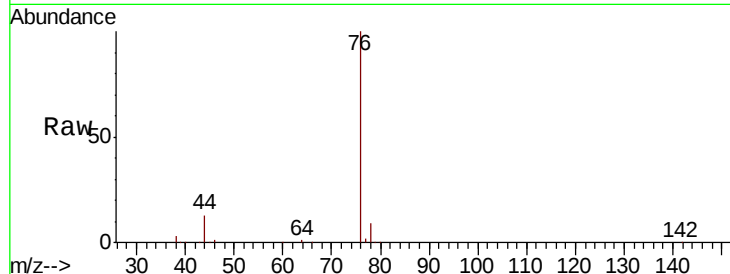
#17
Carbon Disulfide
Concen: 19.29 ug/l
RT: 4.05 min Scan# 765
Delta R.T. -0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.3	10.9

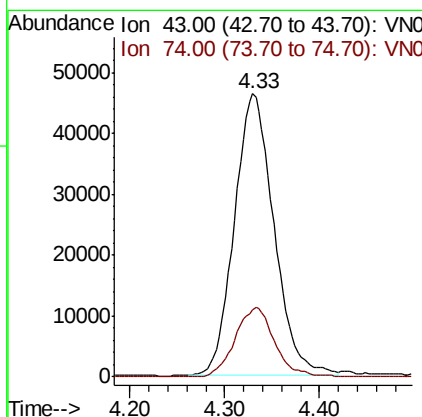
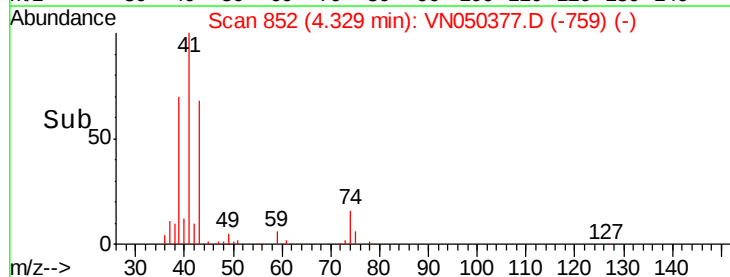
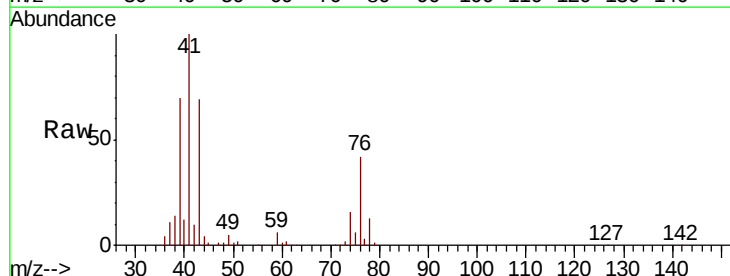
Manual Integrations
APPROVED

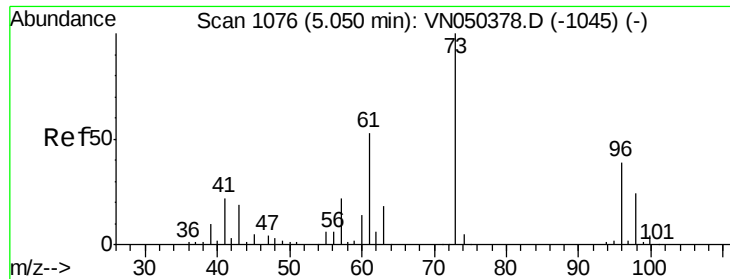
MMDadoda
8/7/2018 9:58:01 AM



#18
Methyl Acetate
Concen: 12.43 ug/l
RT: 4.33 min Scan# 852
Delta R.T. -0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.4	19.2	28.8





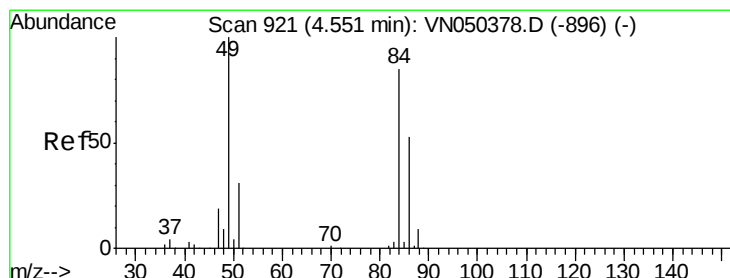
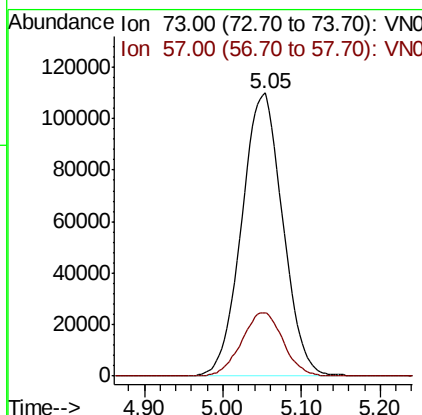
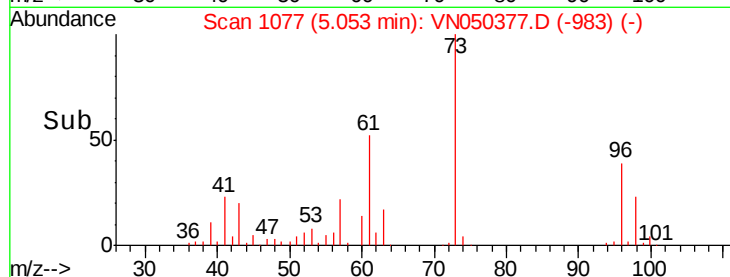
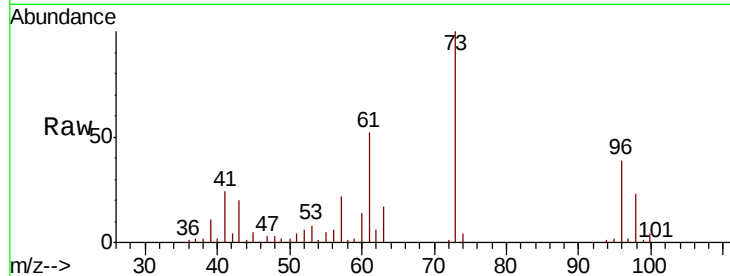
#19
Methvl tert-butvl Ether
Concen: 20.35 ug/l
RT: 5.05 min Scan# 1077
Delta R.T. 0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion: 73 Resp: 404519
Ion Ratio Lower Upper
73 100
57 22.4 18.0 27.0

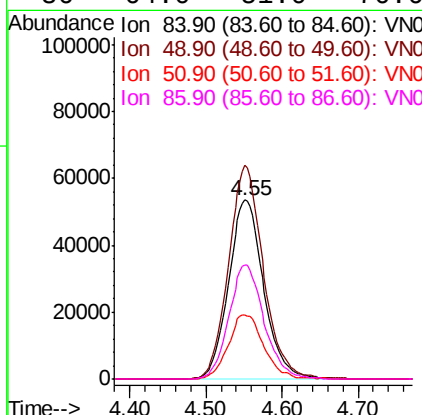
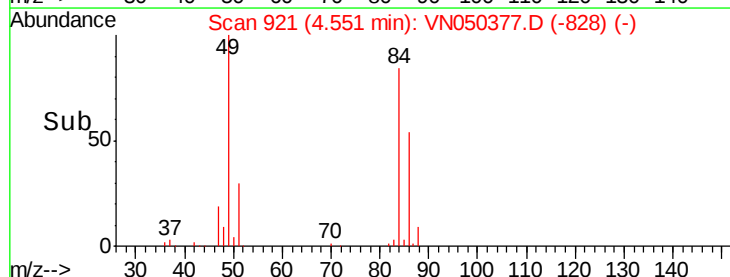
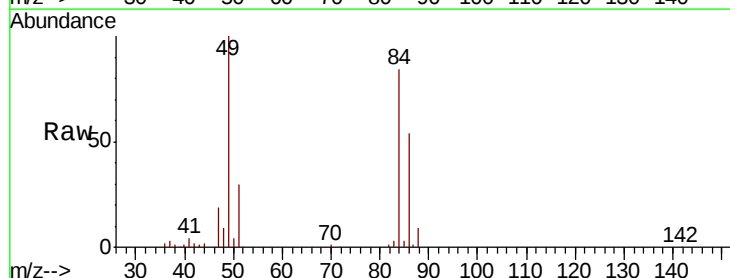
Manual Integrations
APPROVED

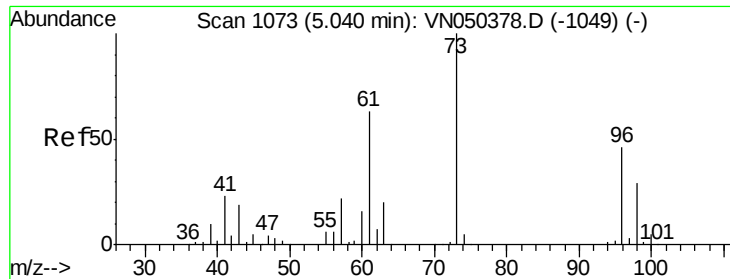
MMDadoda
8/7/2018 9:58:01 AM



#20
Methylene Chloride
Concen: 18.89 ug/l
RT: 4.55 min Scan# 921
Delta R.T. -0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Tgt Ion: 84 Resp: 171260
Ion Ratio Lower Upper
84 100
49 119.4 94.8 142.2
51 35.6 28.3 42.5
86 64.0 51.0 76.6





#21

trans-1,2-Dichloroethene

Concen: 19.55 ug/l

RT: 5.04 min Scan# 1073

Delta R.T. -0.00 min

Lab File: VN050377.D

Acq: 6 Aug 2018 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 96 Resp: 154511

Ion Ratio Lower Upper

96 100

61 135.1 110.7 166.1

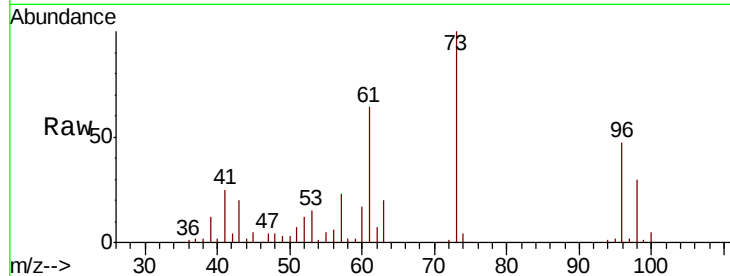
98 62.5 51.6 77.4

Manual Integrations

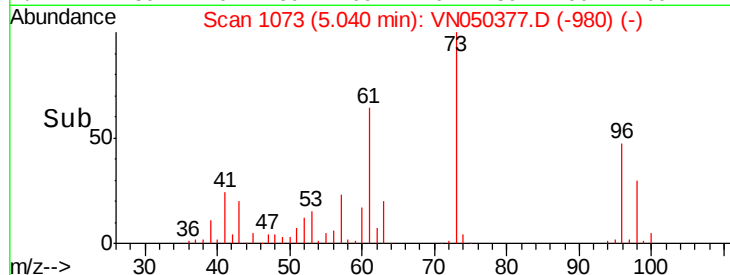
APPROVED

MMDadoda

8/7/2018 9:58:01 AM

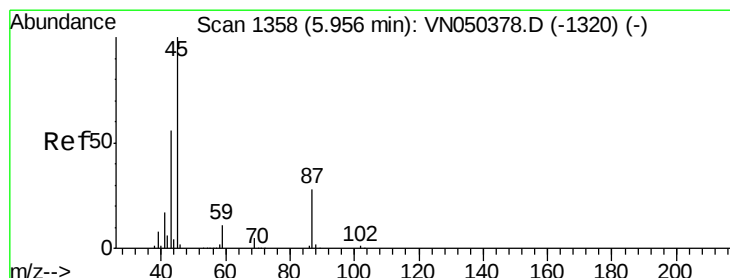
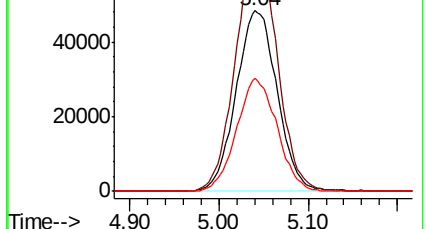


Abundance Ion 95.90 (95.60 to 96.60): VN050377.D (-980) (-)



Ion 60.90 (60.60 to 61.60): VN050377.D (-980) (-)

Ion 97.90 (97.60 to 98.60): VN050377.D (-980) (-)



#22

Diisopropyl ether

Concen: 21.21 ug/l

RT: 5.96 min Scan# 1358

Delta R.T. -0.00 min

Lab File: VN050377.D

Acq: 6 Aug 2018 12:00

Tgt Ion: 45 Resp: 486548

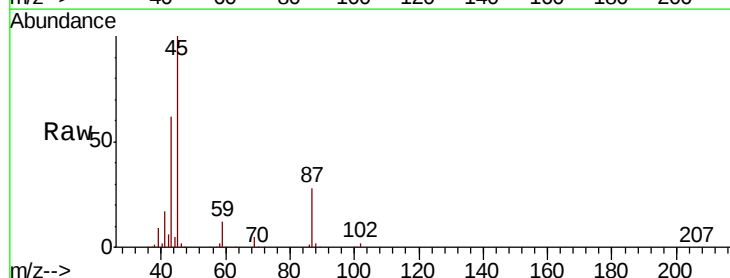
Ion Ratio Lower Upper

45 100

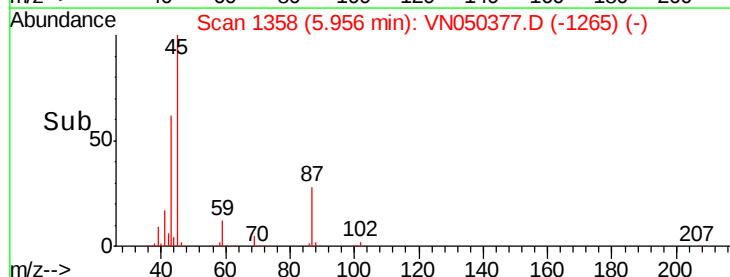
43 60.4 45.7 68.5

87 28.1 22.7 34.1

59 12.0 9.5 14.3



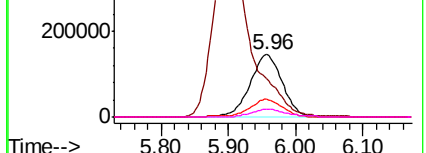
Abundance Ion 45.00 (44.70 to 45.70): VN050377.D (-1265) (-)

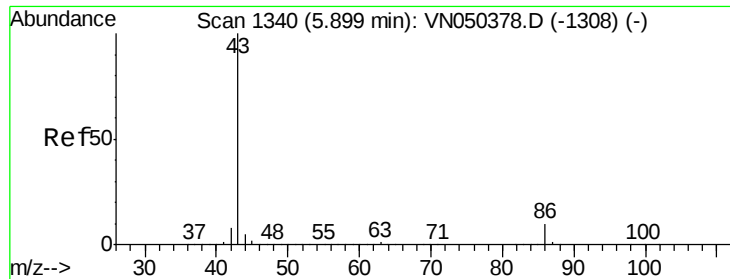


Ion 43.00 (42.70 to 43.70): VN050377.D (-1265) (-)

Ion 87.00 (86.70 to 87.70): VN050377.D (-1265) (-)

Ion 59.00 (58.70 to 59.70): VN050377.D (-1265) (-)





#23

Vinyl Acetate

Concen: 104.61 ug/l

RT: 5.90 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VN050377.D

Acq: 6 Aug 2018 12:00

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 43 Resp: 1695709

Ion Ratio Lower Upper

43 100

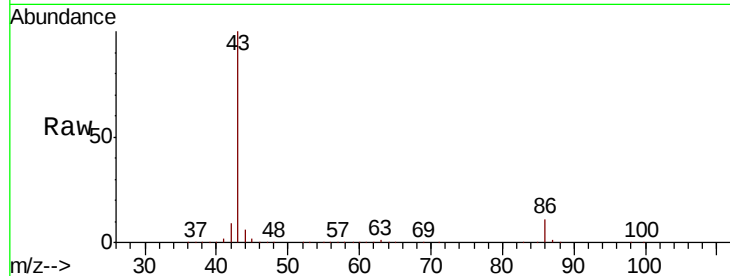
86 10.8 8.6 13.0

Manual Integrations

APPROVED

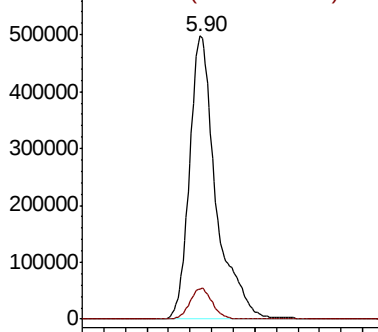
MMDadoda

8/7/2018 9:58:01 AM

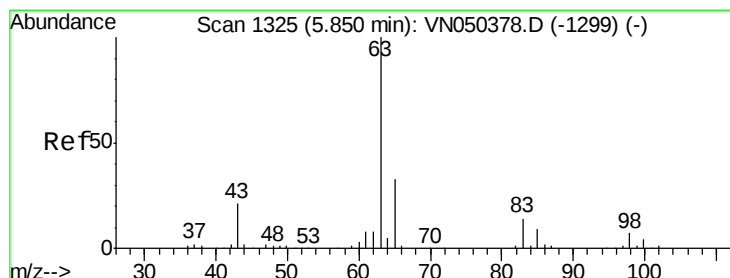
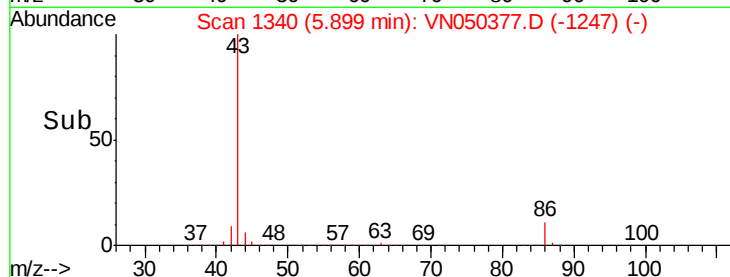


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



Time-->



#24

1,1-Dichloroethane

Concen: 19.34 ug/l

RT: 5.85 min Scan# 1325

Delta R.T. -0.00 min

Lab File: VN050377.D

Acq: 6 Aug 2018 12:00

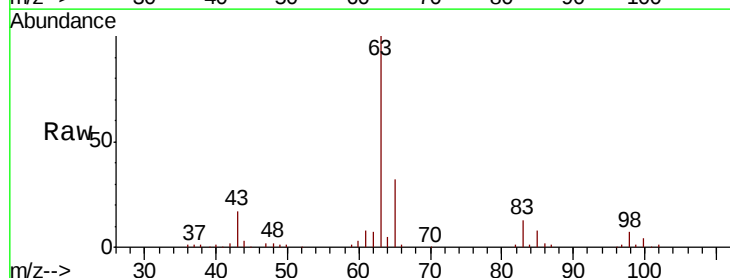
Tgt Ion: 63 Resp: 290030

Ion Ratio Lower Upper

63 100

98 6.9 3.3 9.8

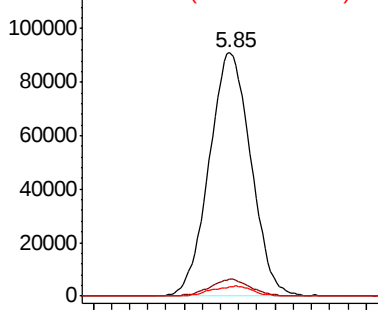
100 3.7 2.1 6.3



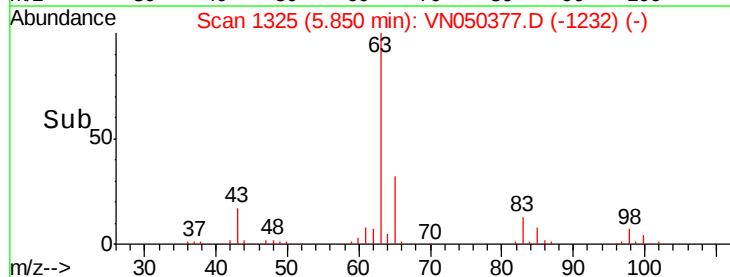
Abundance Ion 62.90 (62.60 to 63.60): VN0

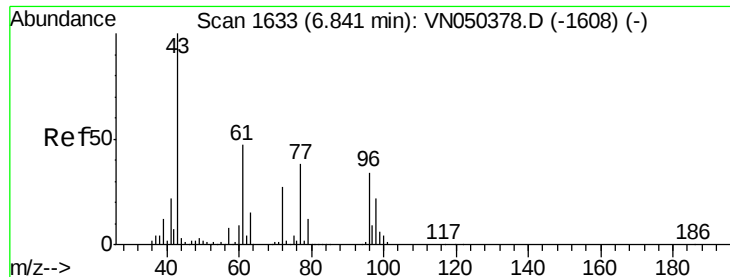
Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0



Time-->





#25

2-Butanone

Concen: 124.17 ug/l

RT: 6.84 min Scan# 1634

Delta R.T. 0.00 min

Lab File: VN050377.D

Acq: 6 Aug 2018 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 427740

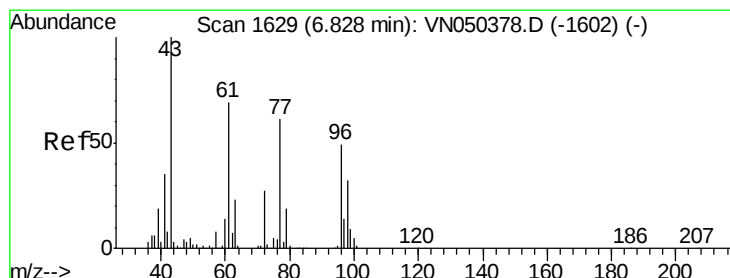
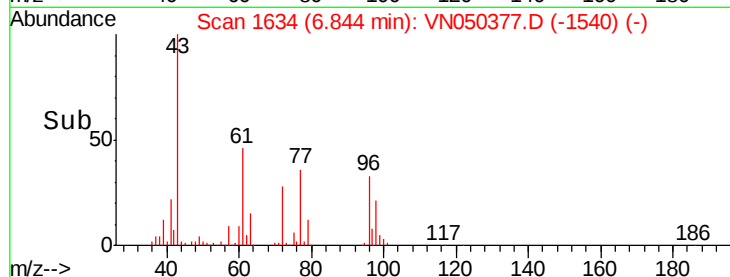
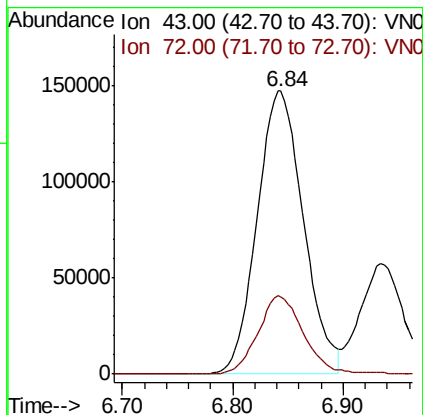
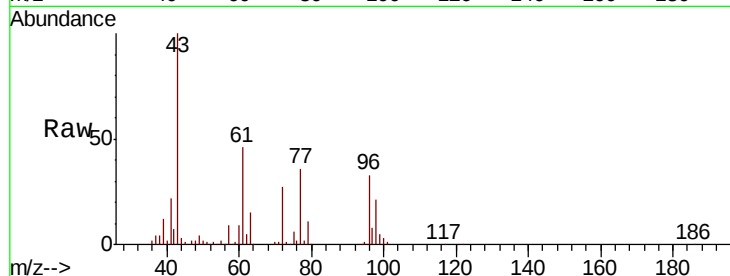
Ion Ratio Lower Upper

43 100

72 27.5 21.5 32.3

Manual Integrations
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MMDadoda
8/7/2018 9:58:01 AM



#26

2,2-Dichloropropane

Concen: 20.77 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VN050377.D

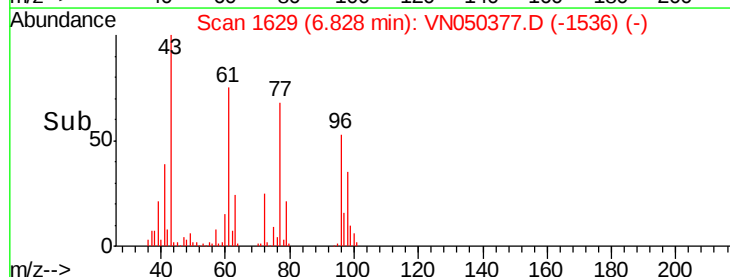
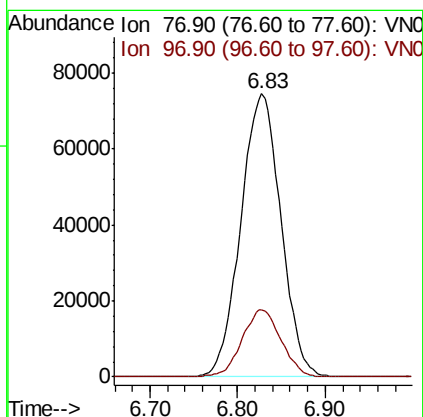
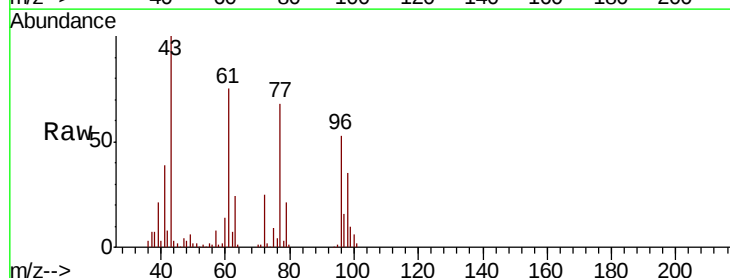
Acq: 6 Aug 2018 12:00

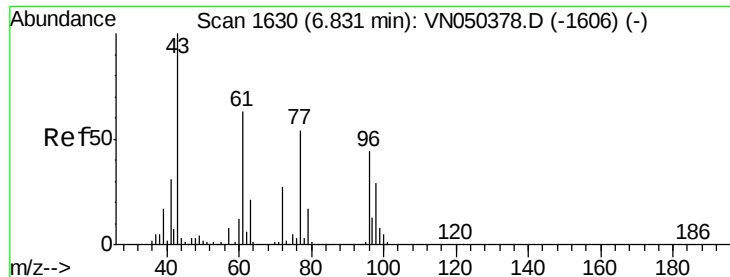
Tgt Ion: 77 Resp: 237051

Ion Ratio Lower Upper

77 100

97 23.0 11.8 35.3





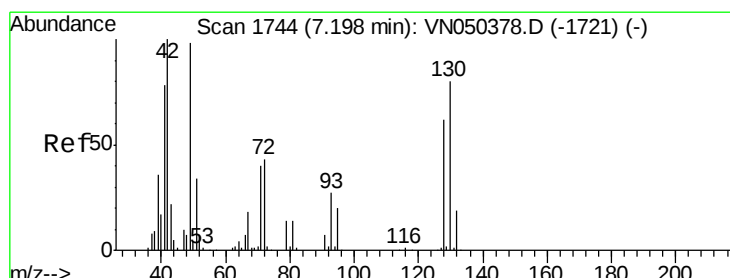
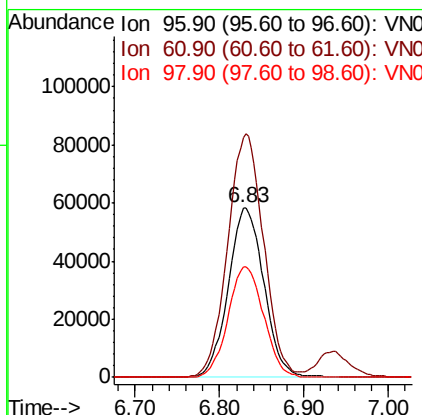
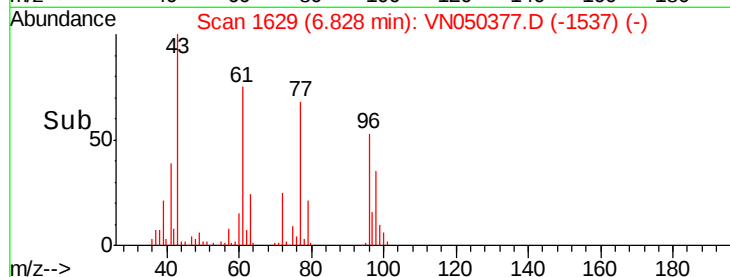
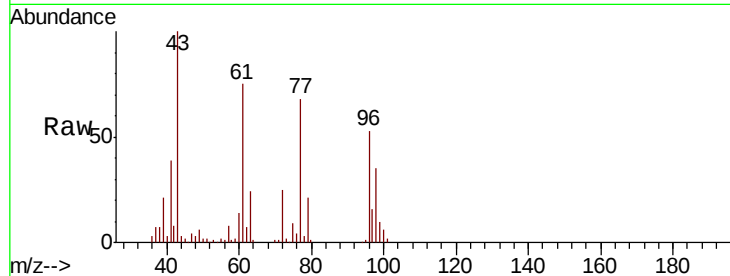
#27
 cis-1,2-Dichloroethene
 Concen: 20.10 ug/l
 RT: 6.83 min Scan# 1629
 Delta R.T. -0.00 min
 Lab File: VN050377.D
 Acq: 6 Aug 2018 12:00

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
96	100	171050		
61	145.1	0.0	285.0	
98	65.4	0.0	129.2	

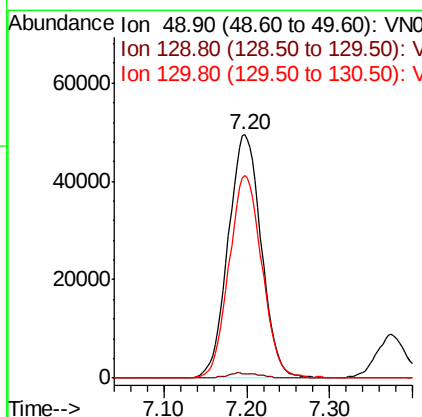
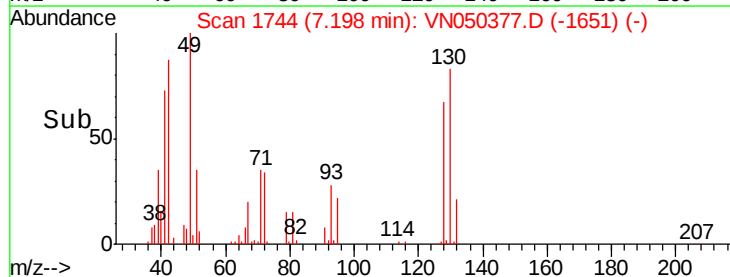
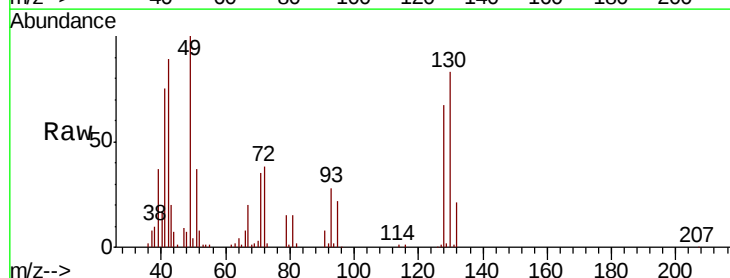
Manual Integrations
 APPROVED

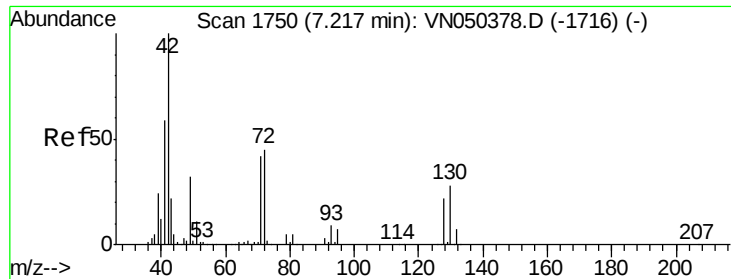
MMDadoda
 8/7/2018 9:58:01 AM



#28
 Bromochloromethane
 Concen: 20.12 ug/l
 RT: 7.20 min Scan# 1744
 Delta R.T. -0.00 min
 Lab File: VN050377.D
 Acq: 6 Aug 2018 12:00

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	137627		
129	1.9	0.0	4.0	
130	82.8	66.3	99.5	





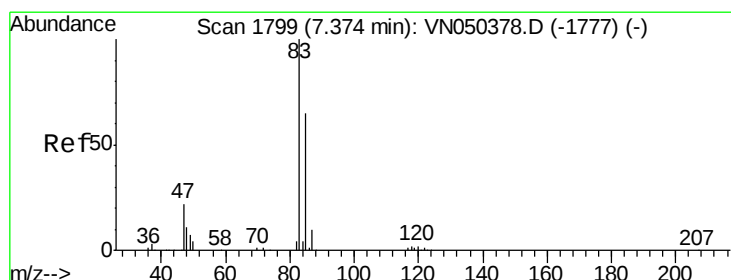
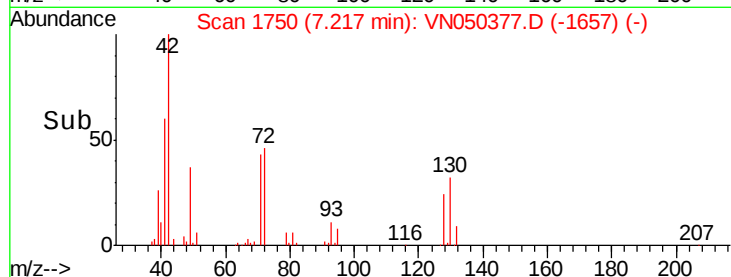
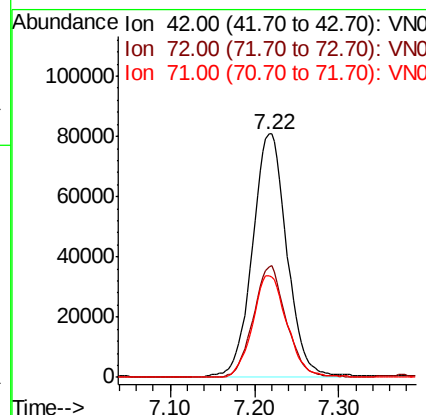
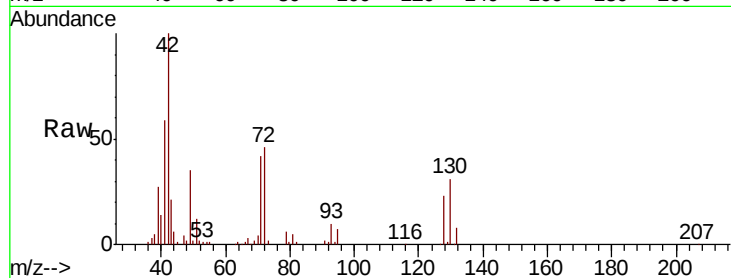
#29
Tetrahydrofuran
Concen: 102.24 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. -0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.2	35.9	53.9
71	41.7	33.7	50.5

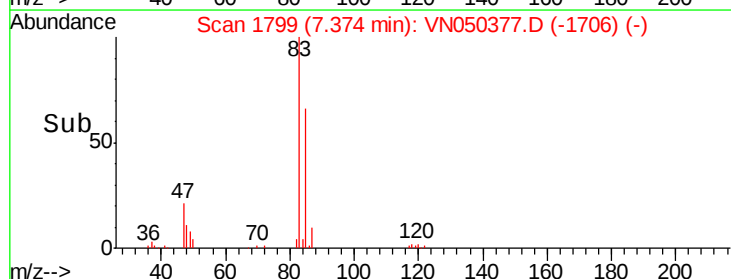
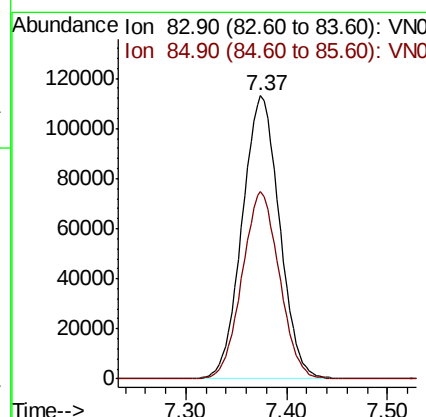
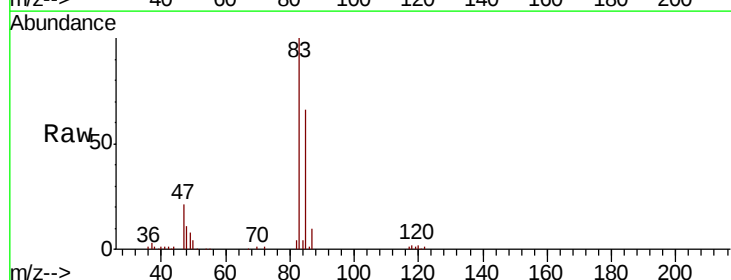
Manual Integrations
APPROVED

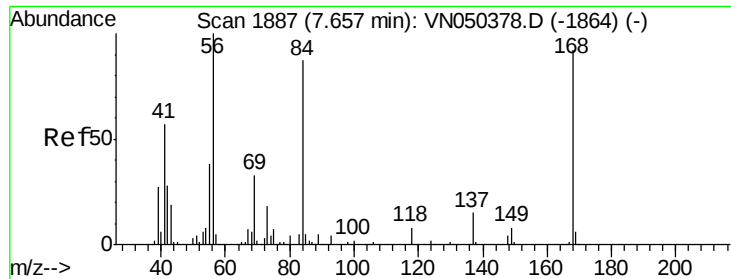
MMDadoda
8/7/2018 9:58:01 AM



#30
Chloroform
Concen: 18.95 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. -0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.4	52.5	78.7





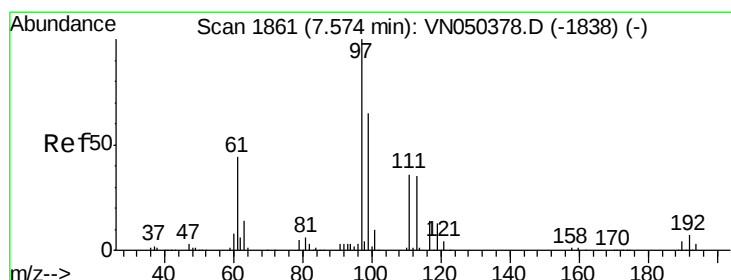
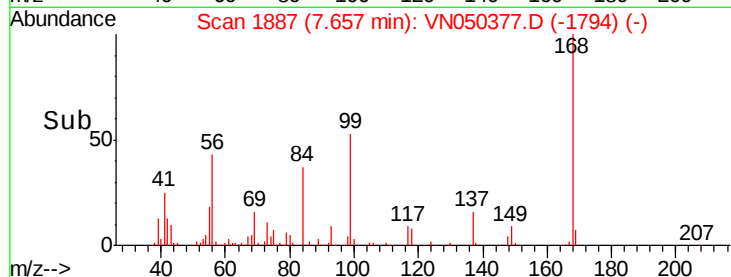
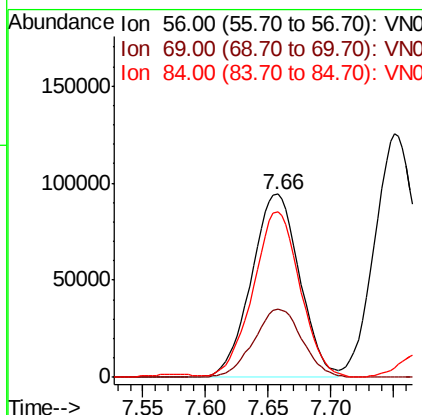
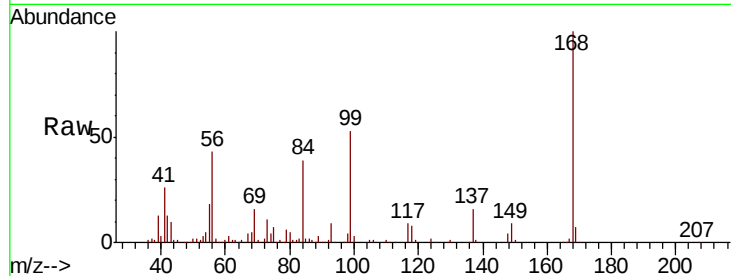
#31
Cyclohexane
Concen: 17.58 ug/l
RT: 7.66 min Scan# 1887
Delta R.T. -0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
56	100		
69	37.2	26.2	39.4
84	89.1	67.4	101.0

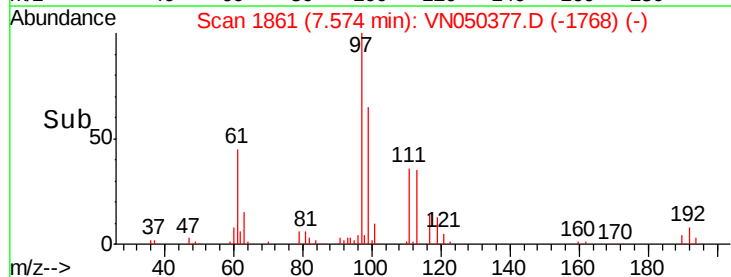
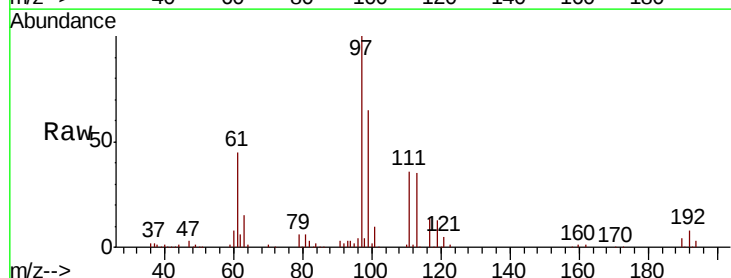
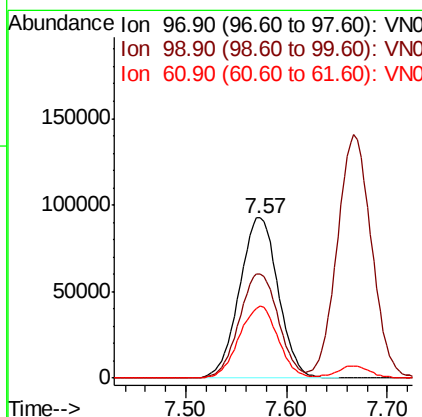
Manual Integrations
APPROVED

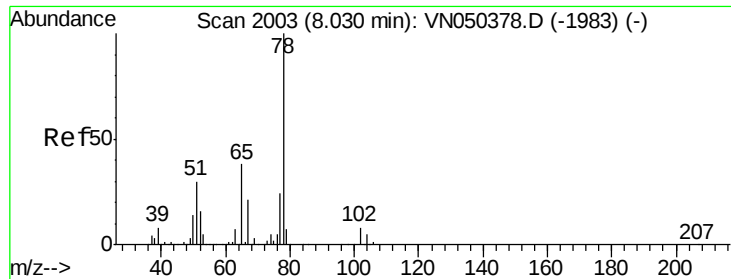
MMDadoda
8/7/2018 9:58:01 AM



#32
1,1,1-Trichloroethane
Concen: 18.90 ug/l
RT: 7.57 min Scan# 1861
Delta R.T. -0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.5	51.4	77.0
61	44.5	35.4	53.0





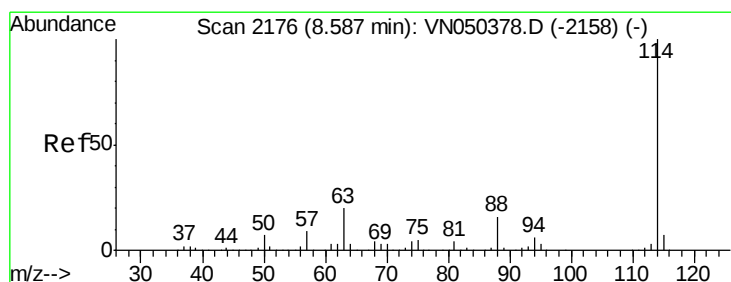
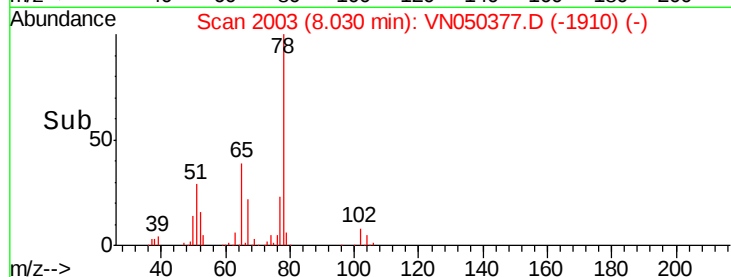
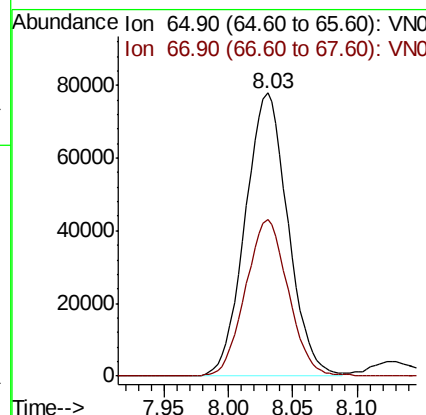
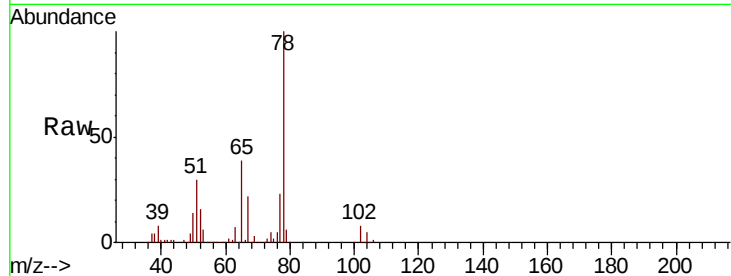
#33
 1,2-Dichloroethane-d4
 Concen: 19.95 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. -0.00 min
 Lab File: VN050377.D
 Acq: 6 Aug 2018 12:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
65	100	180213		
67	55.3	0.0	108.4	

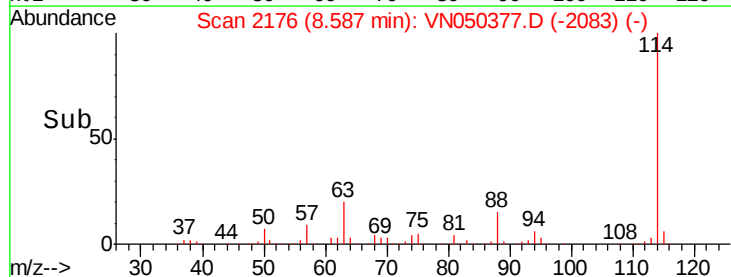
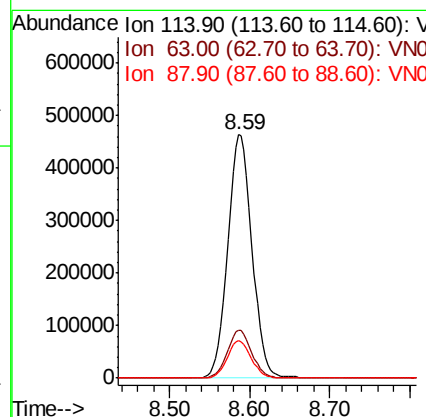
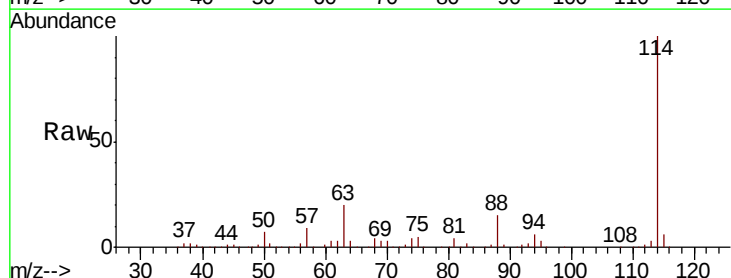
Manual Integrations
 APPROVED

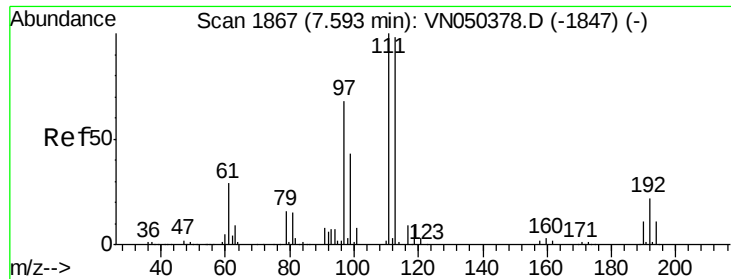
MMDadoda
 8/7/2018 9:58:01 AM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050377.D
 Acq: 6 Aug 2018 12:00

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	963495		
63	19.8	0.0	40.0	
88	15.2	0.0	31.2	





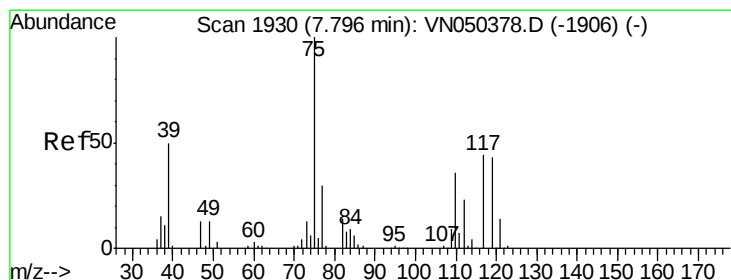
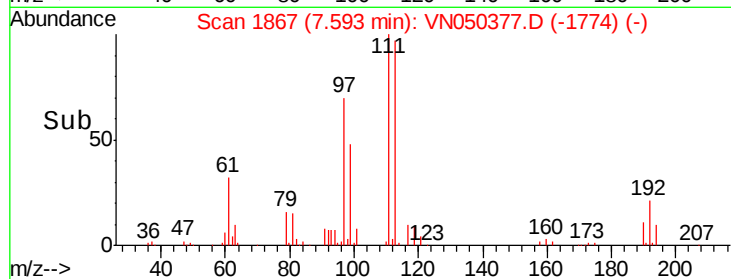
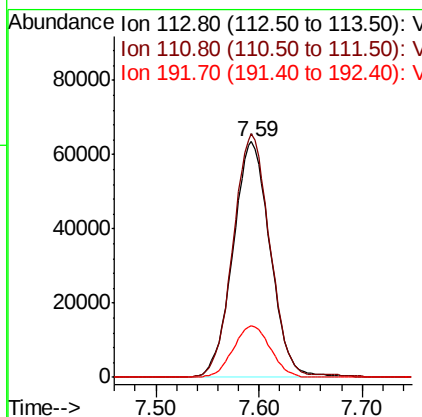
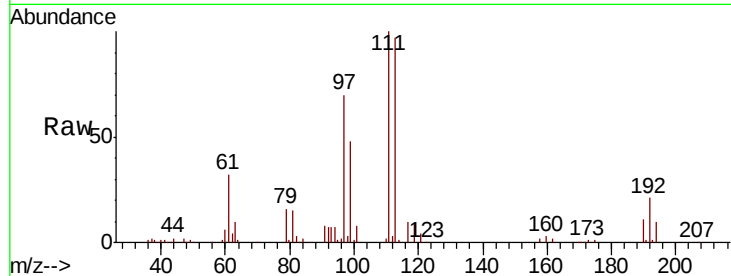
#35
 Dibromofluoromethane
 Concen: 20.21 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050377.D
 Acq: 6 Aug 2018 12:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
113	100	159008		
111	101.9	80.7	121.1	
192	22.0	17.8	26.6	

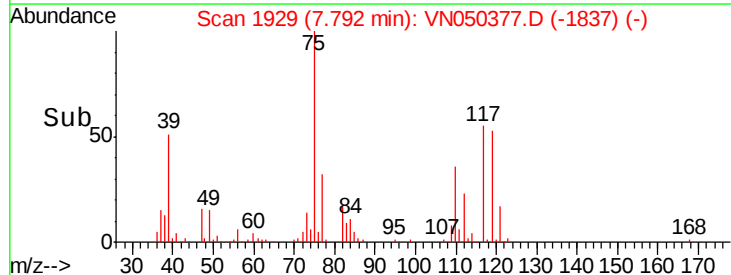
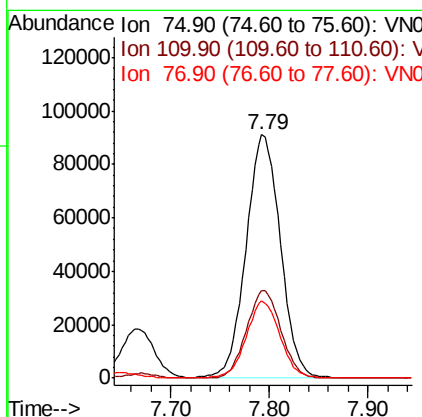
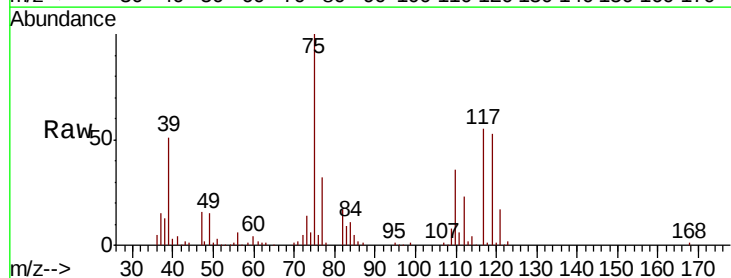
Manual Integrations
 APPROVED

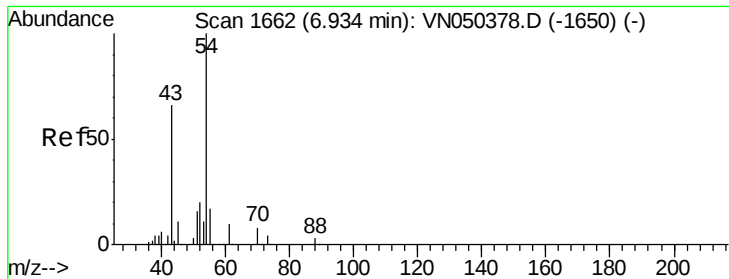
MMDadoda
 8/7/2018 9:58:01 AM



#36
 1,1-Dichloropropene
 Concen: 20.07 ug/l
 RT: 7.79 min Scan# 1929
 Delta R.T. -0.00 min
 Lab File: VN050377.D
 Acq: 6 Aug 2018 12:00

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	217911		
110	36.1	18.4	55.2	
77	31.4	25.3	37.9	





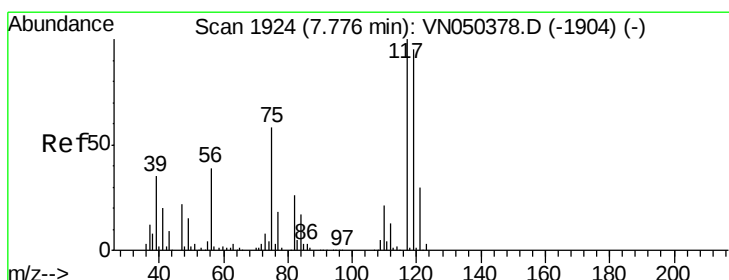
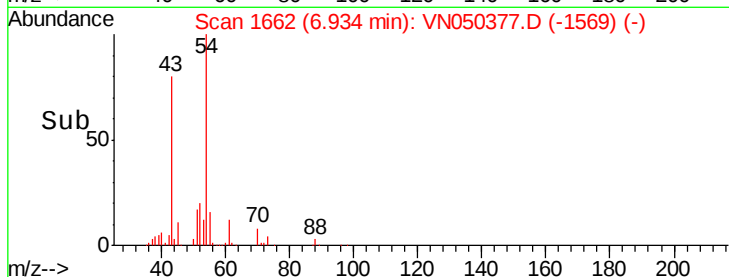
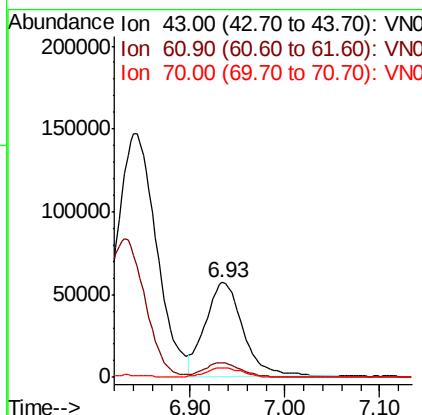
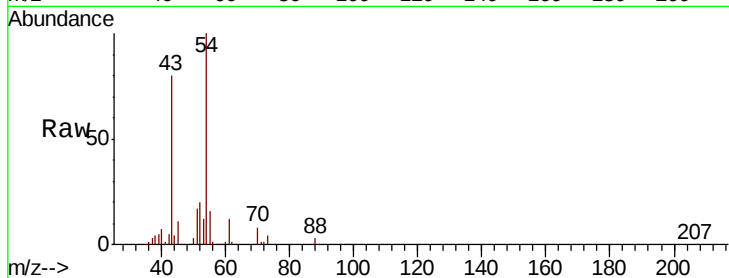
#37
Ethyl Acetate
Concen: 20.83 ug/l
RT: 6.93 min Scan# 1662
Delta R.T. -0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.6	11.8	17.8
70	10.6	8.4	12.6

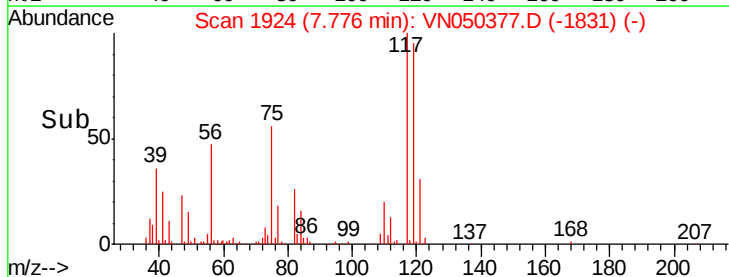
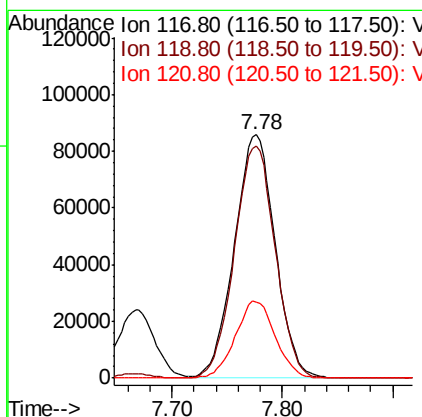
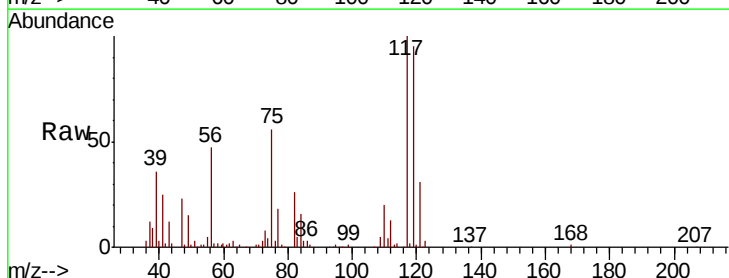
Manual Integrations
APPROVED

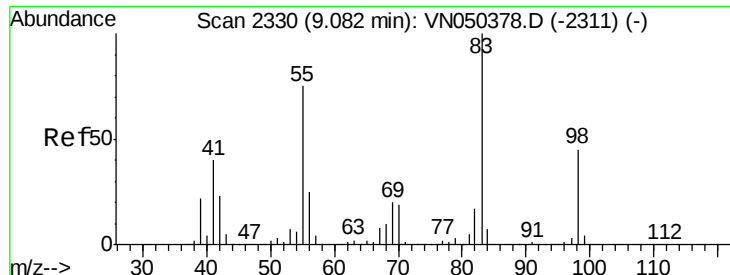
MMDadoda
8/7/2018 9:58:01 AM



#38
Carbon Tetrachloride
Concen: 19.09 ug/l
RT: 7.78 min Scan# 1924
Delta R.T. -0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.4	77.4	116.0
121	31.4	23.9	35.9





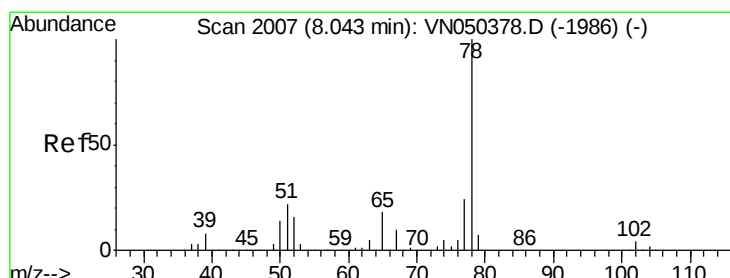
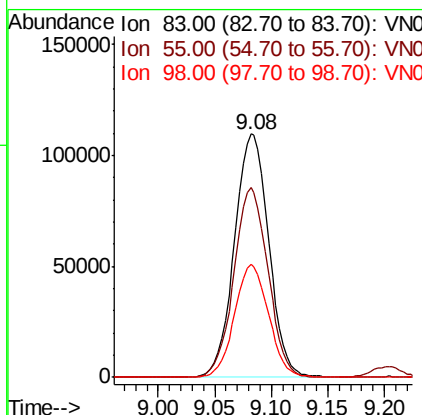
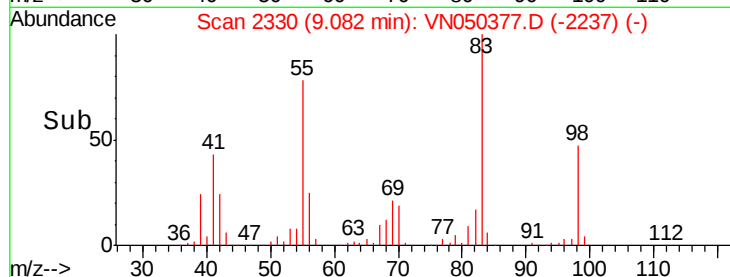
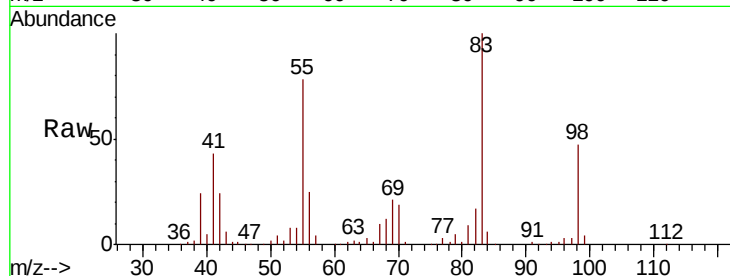
#39
Methvlcvclohexane
Concen: 20.76 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
83	100	231850		
55	78.2	61.8	92.8	
98	46.7	36.5	54.7	

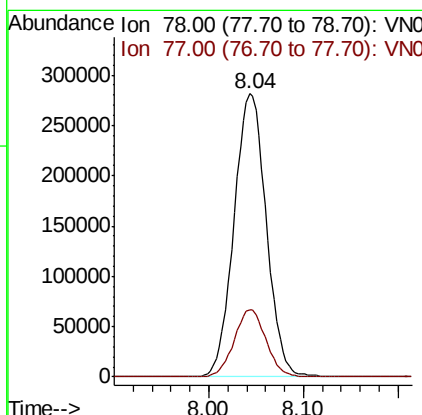
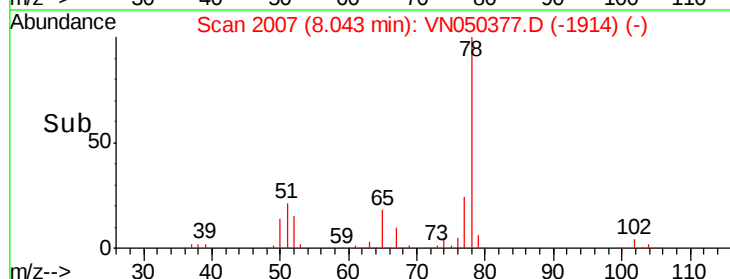
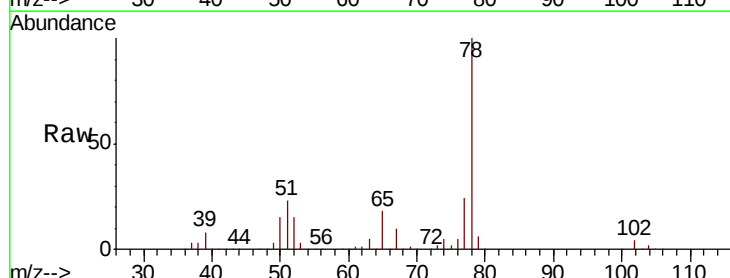
Manual Integrations
APPROVED

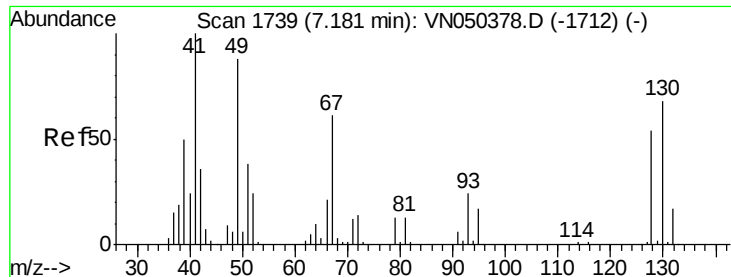
MMDadoda
8/7/2018 9:58:01 AM



#40
Benzene
Concen: 20.19 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. -0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	666763		
77	23.9	18.7	28.1	





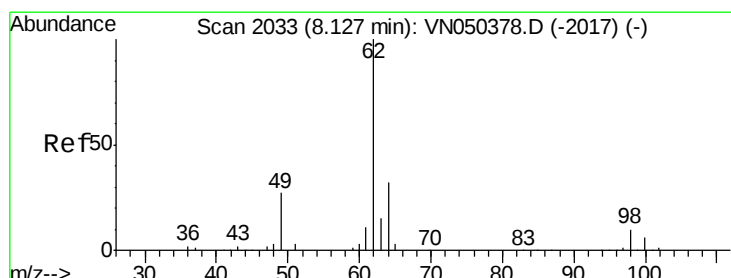
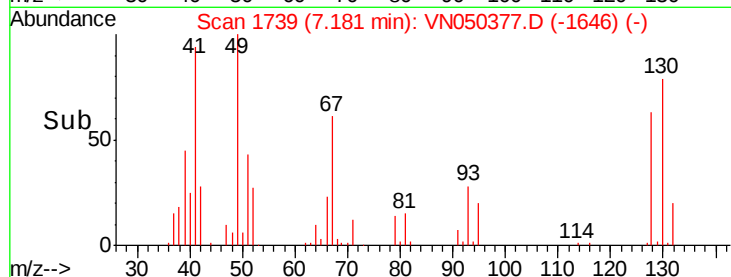
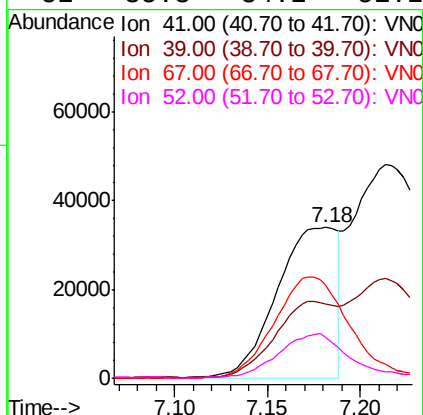
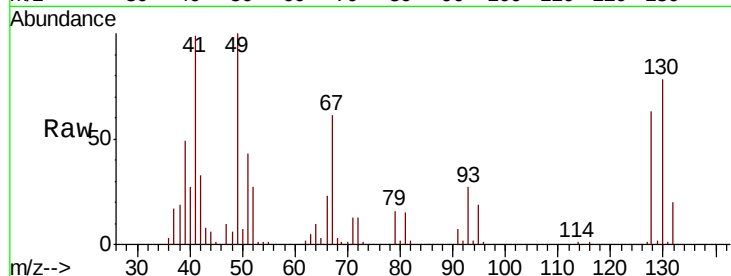
#41
Methacrylonitrile
Concen: 21.76 ug/l
RT: 7.18 min Scan# 1739
Delta R.T. -0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
41	100		
39	51.3	55.8	83.6#
67	84.2	84.3	126.5#
52	35.3	34.2	51.2

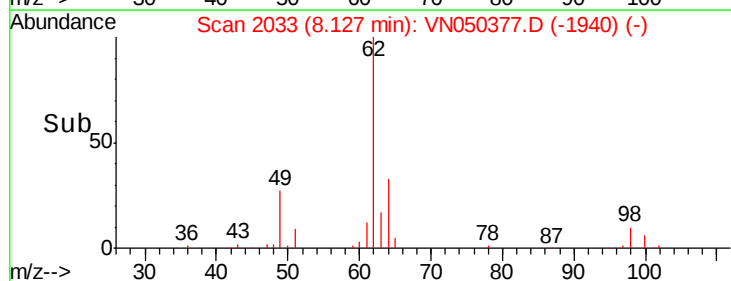
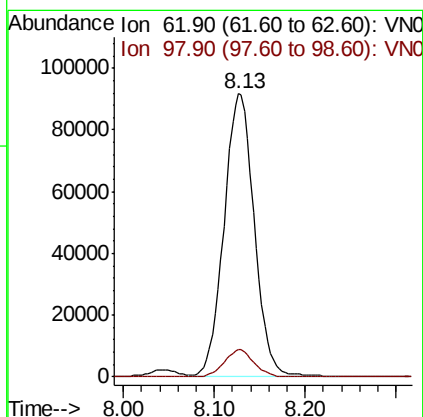
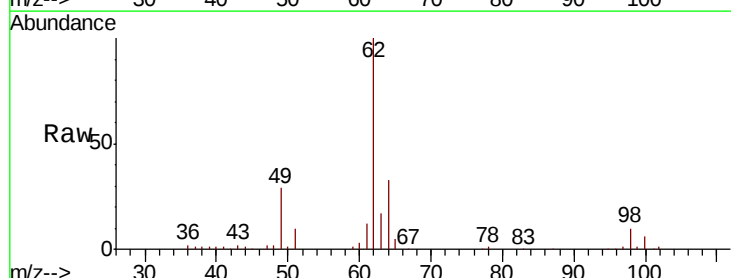
Manual Integrations
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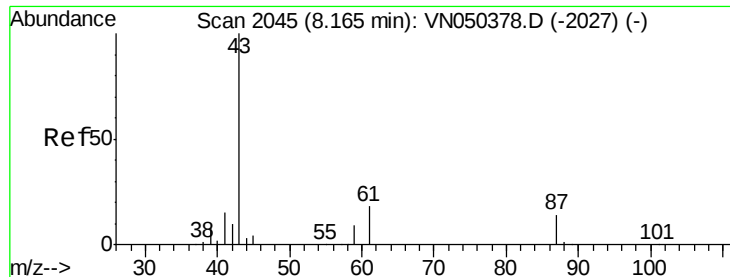
MMDadoda
8/7/2018 9:58:01 AM



#42
1,2-Dichloroethane
Concen: 19.14 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. -0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.4	0.0	18.8





#43

Isopropyl Acetate

Concen: 14.26 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050377.D

Acq: 6 Aug 2018 12:00

Instrument :

MSVOA_N

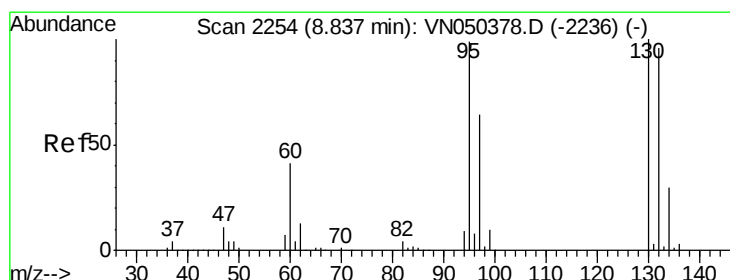
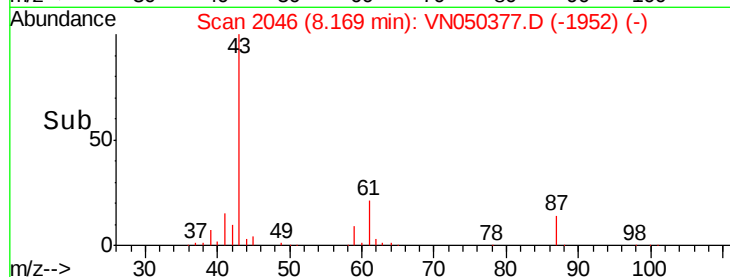
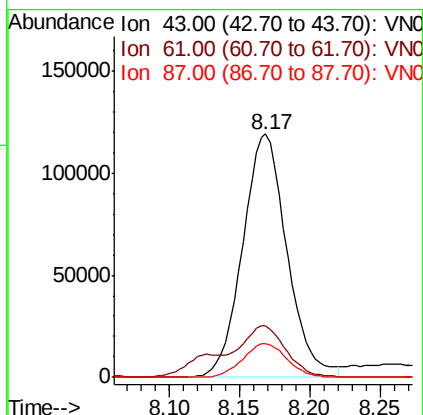
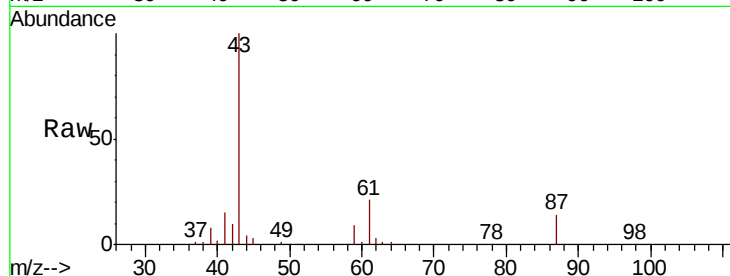
ClientSampleId :

VSTDIC020

Tot Ion:	43	Resp:	261171
Ion	Ratio	Lower	Upper
43	100		
61	20.4	15.8	23.6
87	13.9	10.3	15.5

Manual Integrations
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8/7/2018 9:58:01 AM



#44

Trichloroethene

Concen: 20.01 ug/l

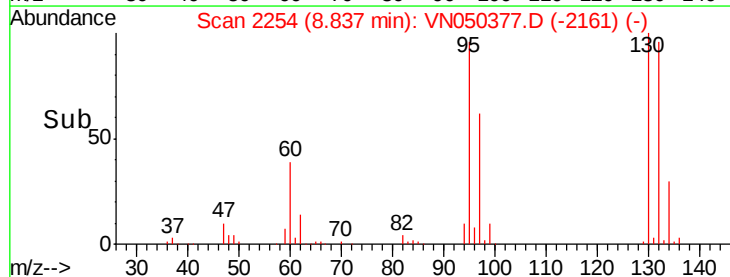
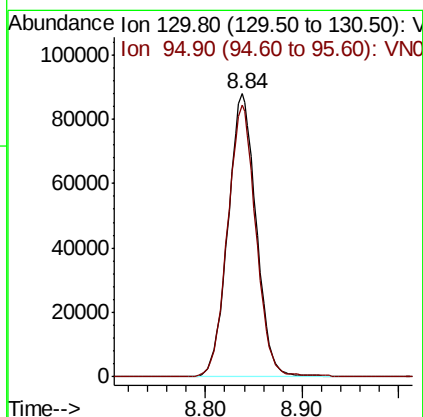
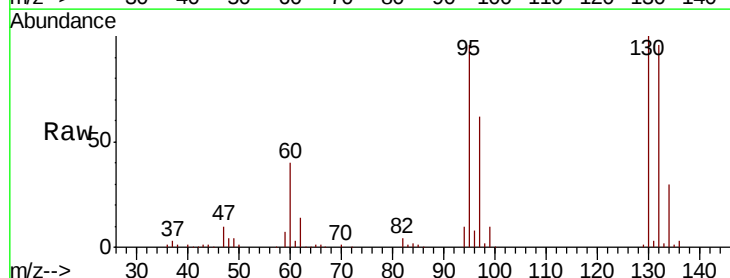
RT: 8.84 min Scan# 2254

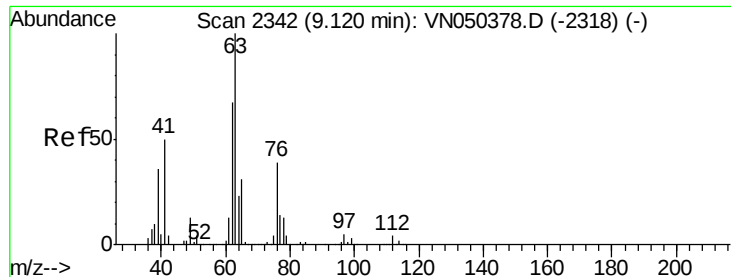
Delta R.T. -0.00 min

Lab File: VN050377.D

Acq: 6 Aug 2018 12:00

Tgt Ion:	130	Resp:	177612
Ion	Ratio	Lower	Upper
130	100		
95	95.9	0.0	194.6





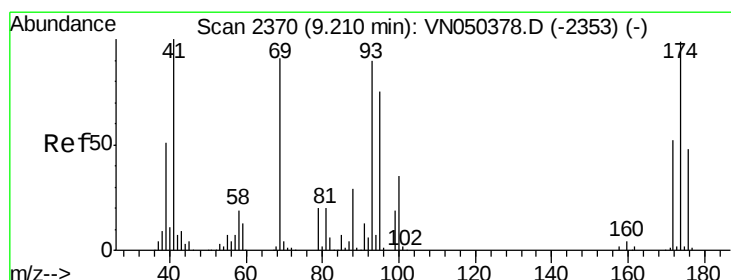
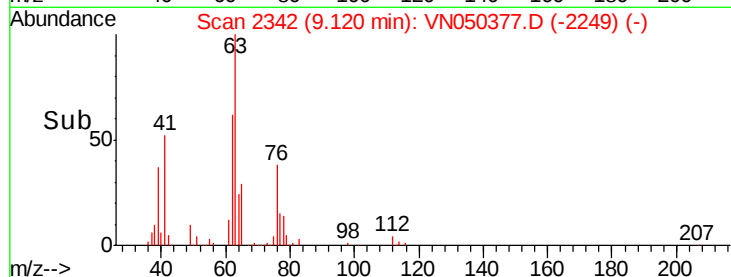
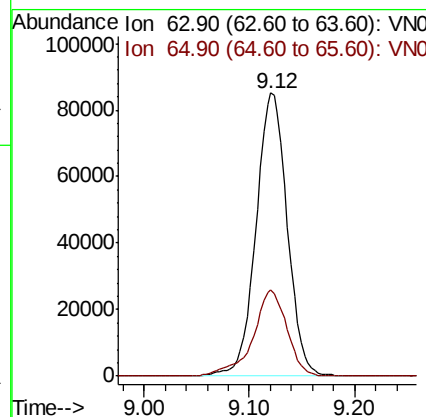
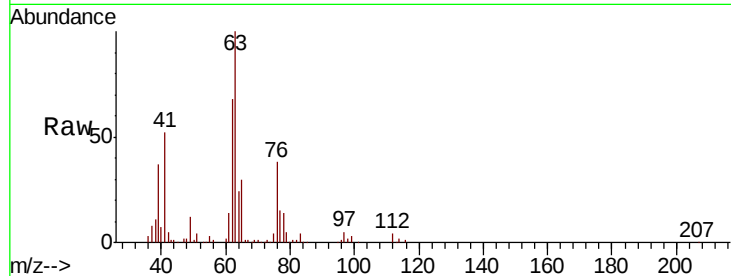
#45
 1,2-Dichloropropane
 Concen: 20.09 ug/l
 RT: 9.12 min Scan# 2342
 Delta R.T. -0.00 min
 Lab File: VN050377.D
 Acq: 6 Aug 2018 12:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.3	25.5	38.3

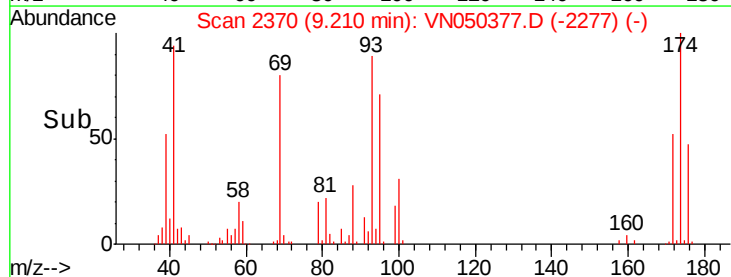
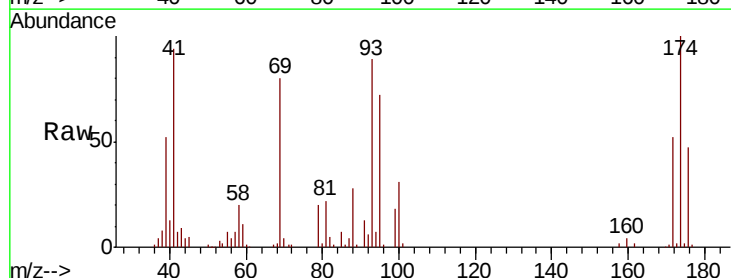
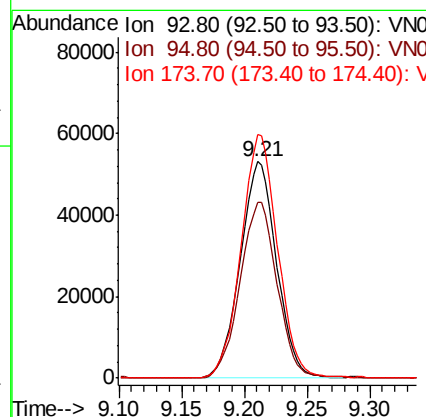
Manual Integrations
 APPROVED

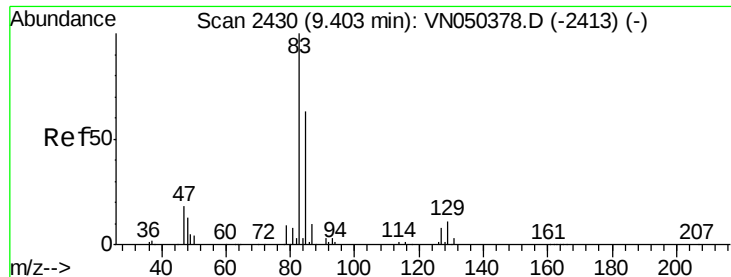
MMDadoda
 8/7/2018 9:58:01 AM



#46
 Dibromomethane
 Concen: 19.73 ug/l
 RT: 9.21 min Scan# 2370
 Delta R.T. -0.00 min
 Lab File: VN050377.D
 Acq: 6 Aug 2018 12:00

Tgt Ion	Ratio	Lower	Upper
93	100		
95	82.9	66.6	100.0
174	112.6	87.1	130.7





#47

Bromodichloromethane

Concen: 19.23 ug/l

RT: 9.41 min Scan# 2431

Delta R.T. 0.00 min

Lab File: VN050377.D

Acq: 6 Aug 2018 12:00

Instrument :

MSVOA_N

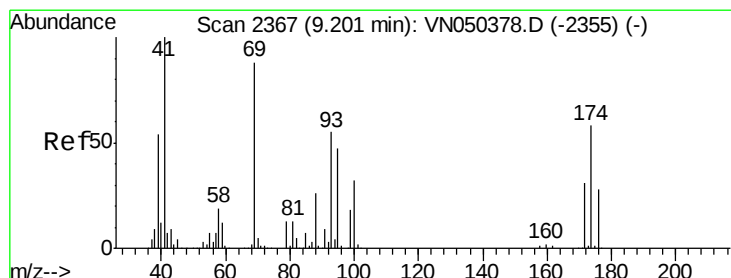
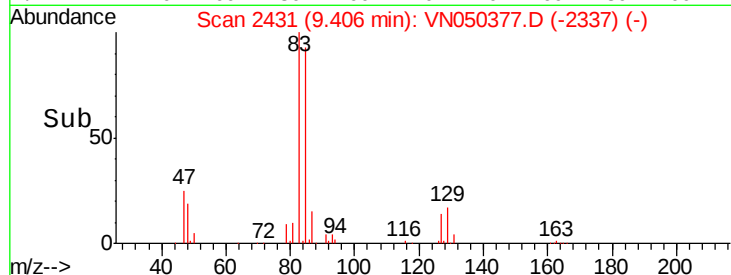
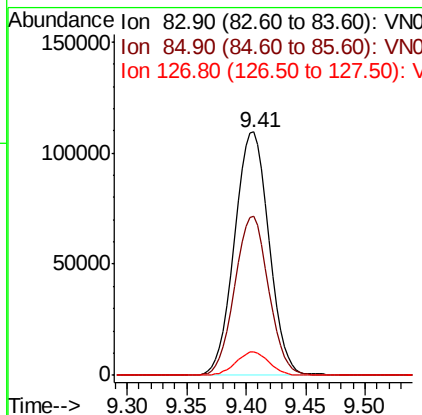
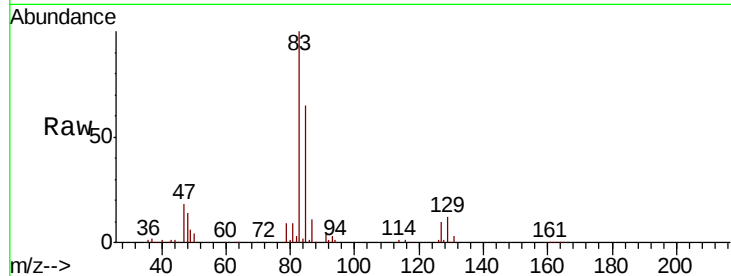
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	220460
Ion	Ratio	Lower	Upper
83	100		
85	65.4	51.1	76.7
127	9.7	7.0	10.4

Manual Integrations
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#48

Methyl methacrylate

Concen: 20.48 ug/l

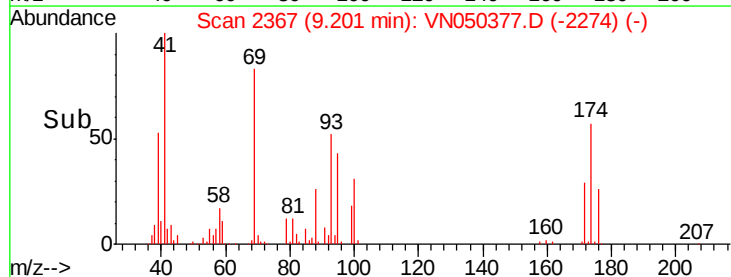
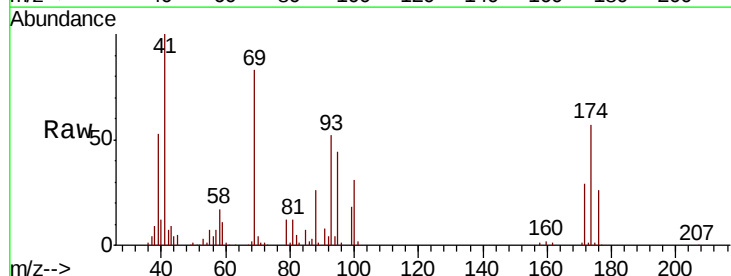
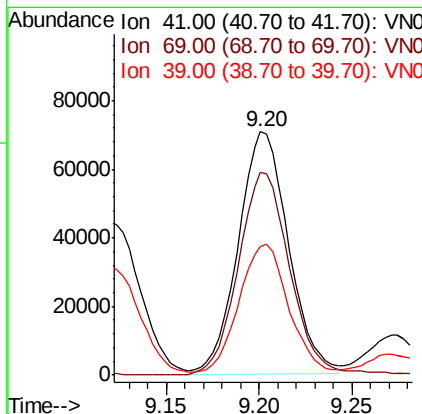
RT: 9.20 min Scan# 2367

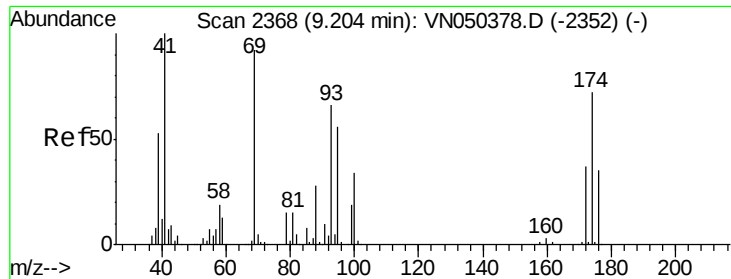
Delta R.T. -0.00 min

Lab File: VN050377.D

Acq: 6 Aug 2018 12:00

Tgt Ion:	41	Resp:	133493
Ion	Ratio	Lower	Upper
41	100		
69	86.8	70.6	105.8
39	53.8	43.9	65.9





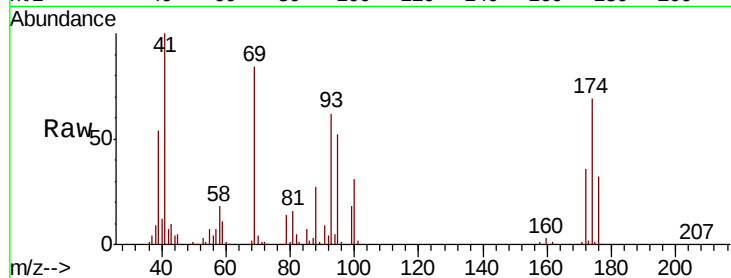
#49
1,4-Dioxane
Concen: 444.82 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. -0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

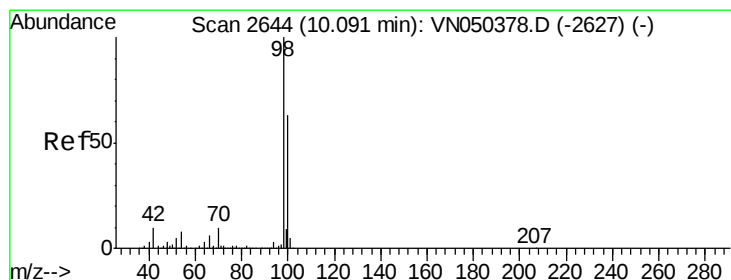
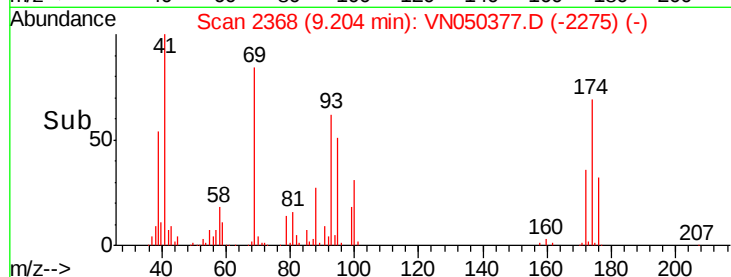
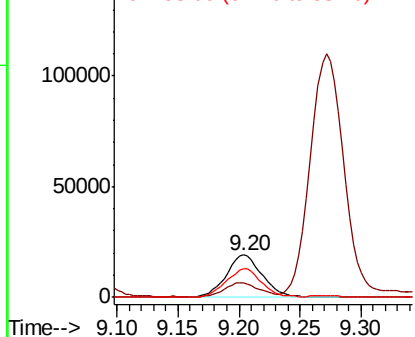
Tot Ion	Ratio	Lower	Upper
88	100		
43	30.6	26.9	40.3
58	67.2	57.3	85.9

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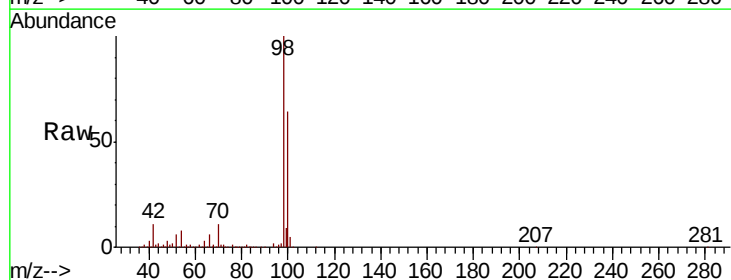


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

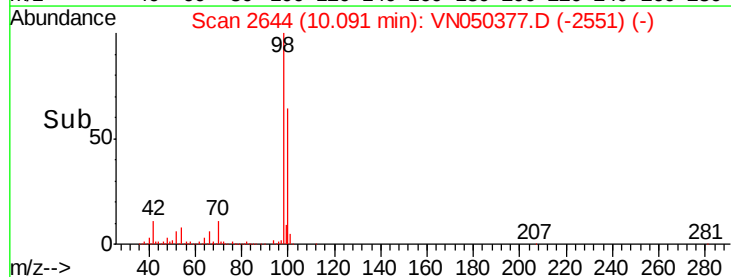
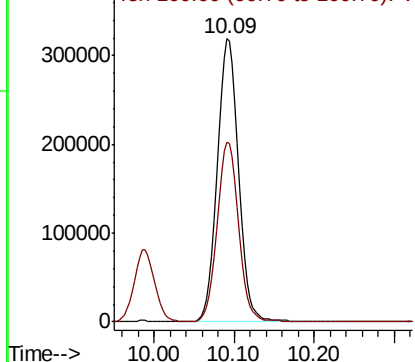


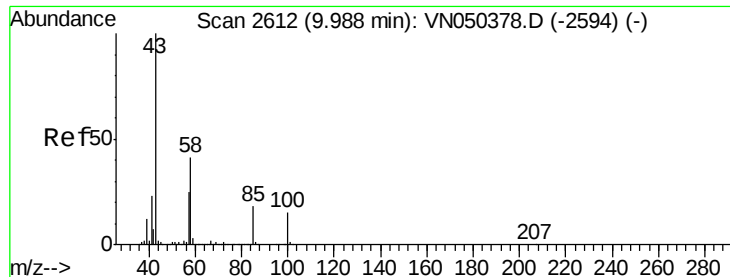
#50
Toluene-d8
Concen: 20.50 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.6	50.7	76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





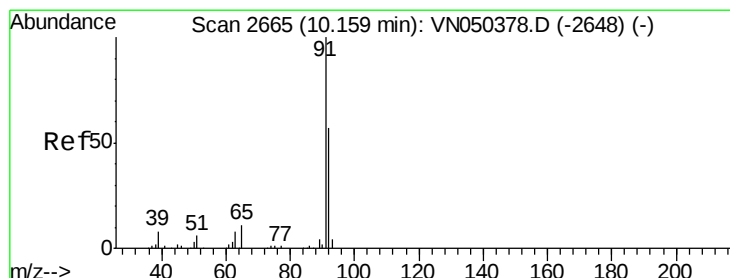
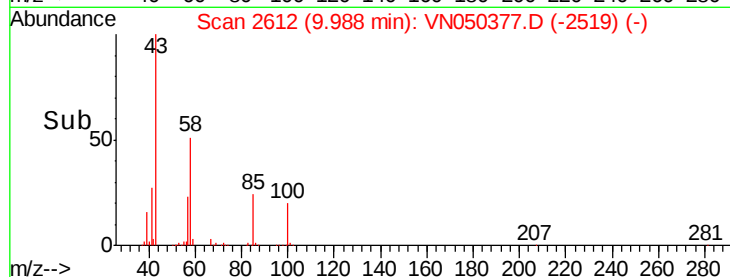
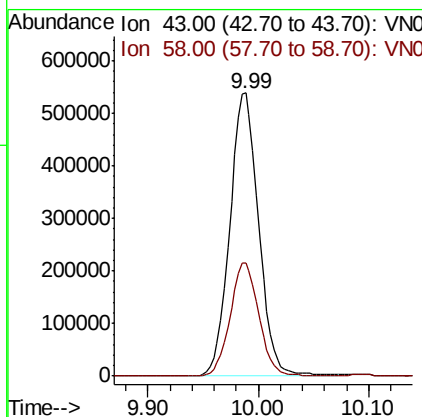
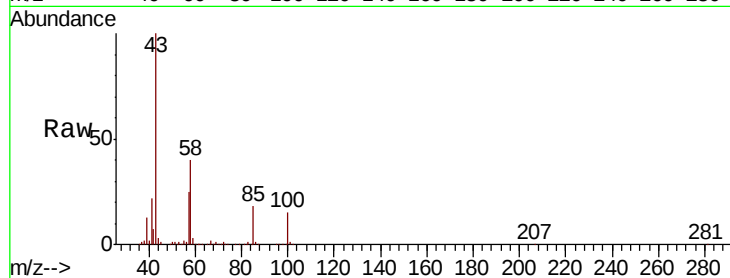
#51
4-Methyl-2-Pentanone
Concen: 131.04 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. -0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	43	Resp	974939
Ion	Ratio	Lower	Upper
43	100		
58	39.8	31.9	47.9

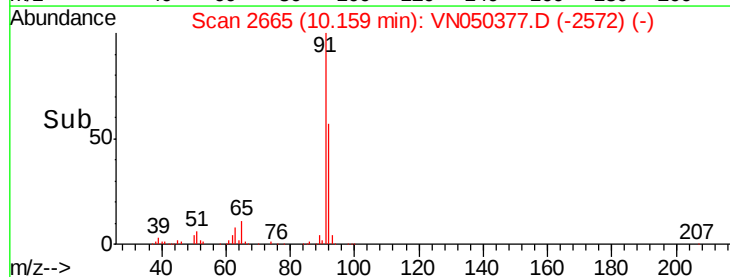
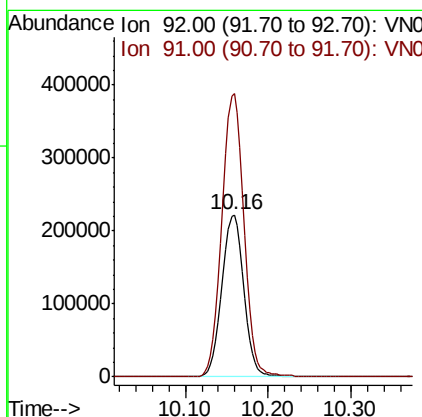
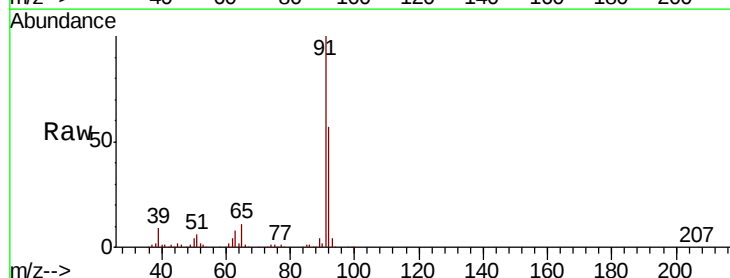
Manual Integrations
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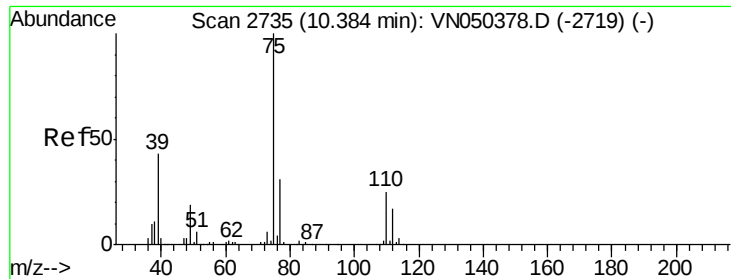
MMDadoda
8/7/2018 9:58:01 AM



#52
Toluene
Concen: 20.90 ug/l
RT: 10.16 min Scan# 2665
Delta R.T. -0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Tgt Ion	92	Resp	407599
Ion	Ratio	Lower	Upper
92	100		
91	175.8	140.3	210.5





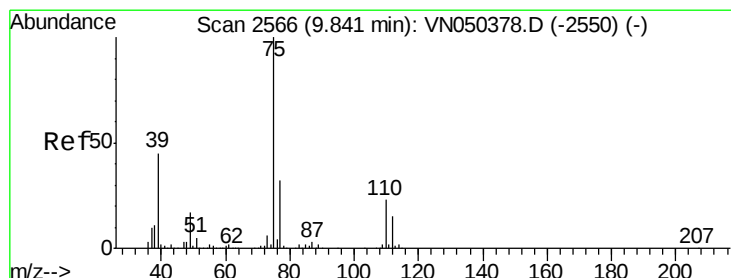
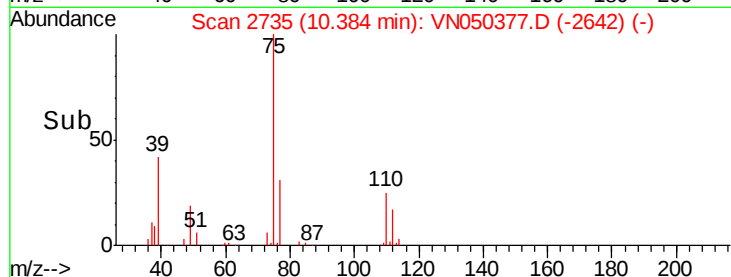
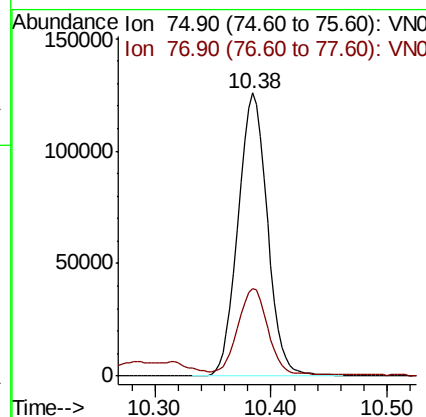
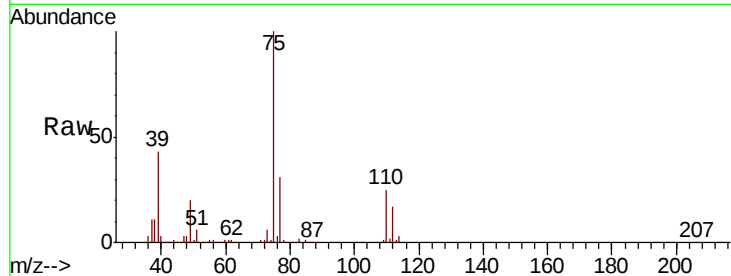
#53
t-1,3-Dichloropropene
Concen: 20.38 ug/l
RT: 10.38 min Scan# 2735
Delta R.T. -0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.5	24.9	37.3

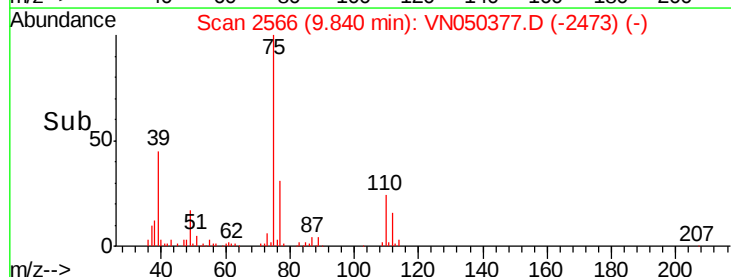
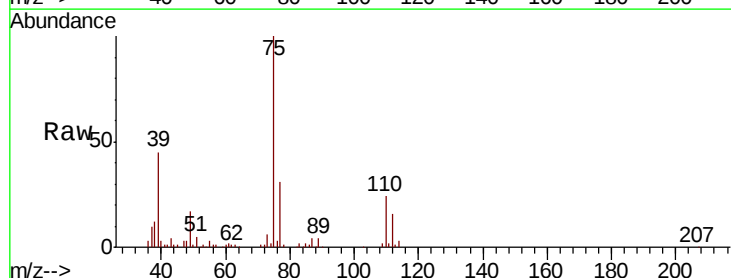
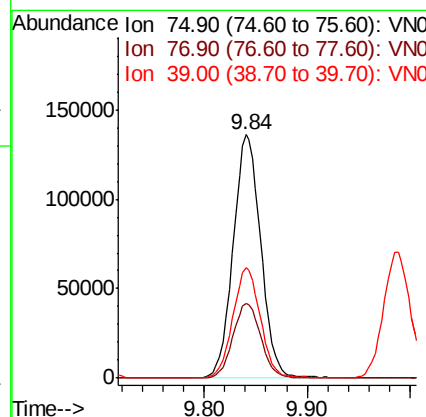
Manual Integrations
APPROVED

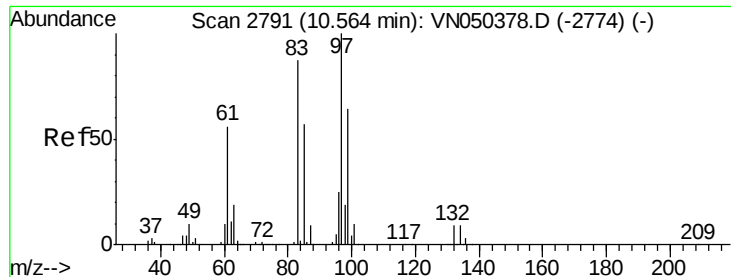
MMDadoda
8/7/2018 9:58:01 AM



#54
cis-1,3-Dichloropropene
Concen: 20.50 ug/l
RT: 9.84 min Scan# 2566
Delta R.T. -0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Tgt Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.5	38.3
39	45.4	36.6	55.0





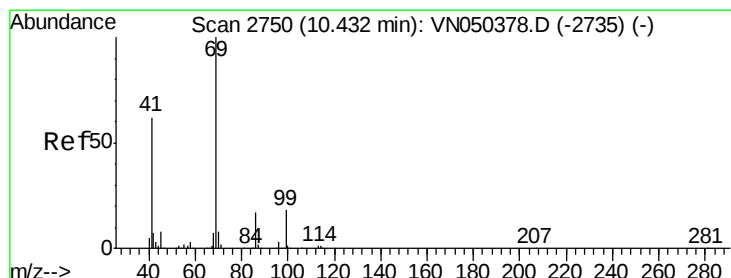
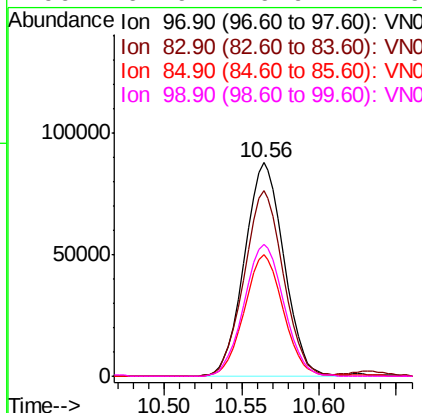
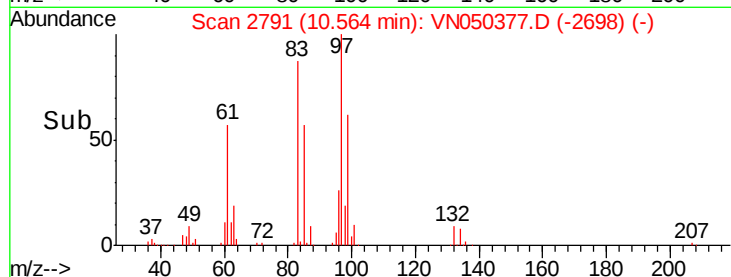
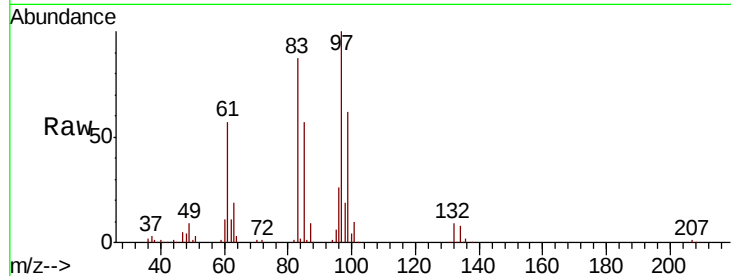
#55
 1,1,2-Trichloroethane
 Concen: 20.14 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. -0.00 min
 Lab File: VN050377.D
 Acq: 6 Aug 2018 12:00

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion:	97	Resp:	155733
Ion	Ratio	Lower	Upper
97	100		
83	87.1	69.2	103.8
85	56.8	44.0	66.0
99	61.9	49.9	74.9

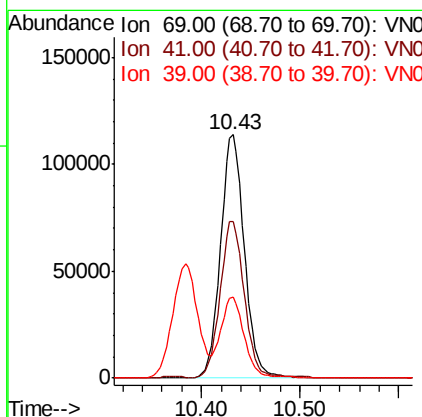
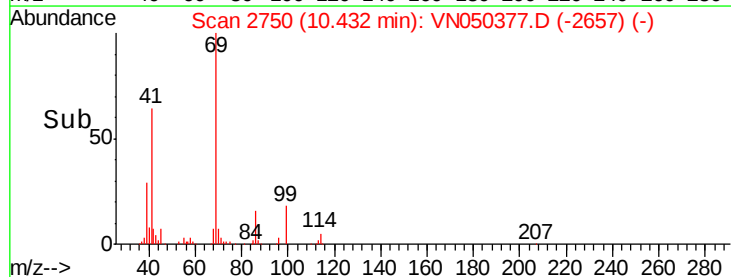
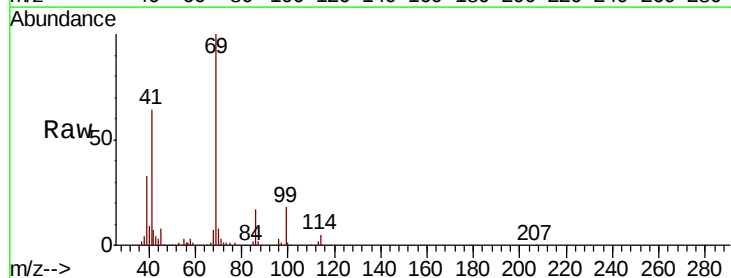
Manual Integrations
 APPROVED

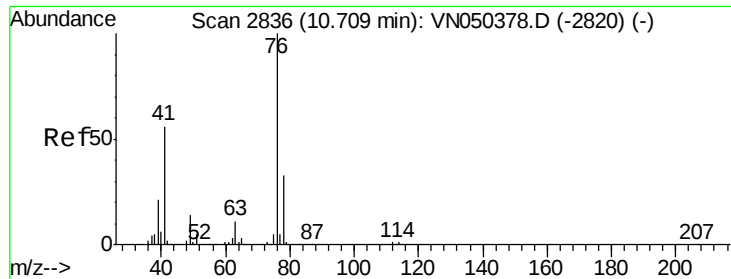
MMDadoda
 8/7/2018 9:58:01 AM



#56
 Ethyl methacrylate
 Concen: 21.19 ug/l
 RT: 10.43 min Scan# 2750
 Delta R.T. -0.00 min
 Lab File: VN050377.D
 Acq: 6 Aug 2018 12:00

Tgt Ion:	69	Resp:	193590
Ion	Ratio	Lower	Upper
69	100		
41	64.2	51.0	76.4
39	32.7	26.6	40.0





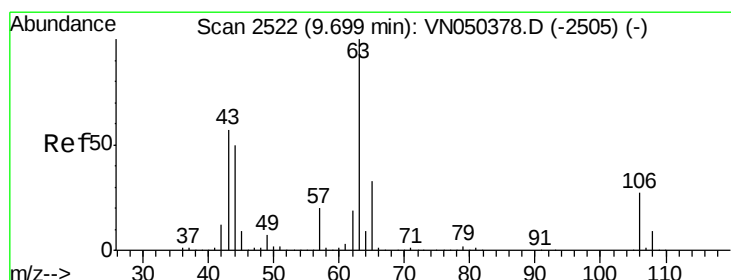
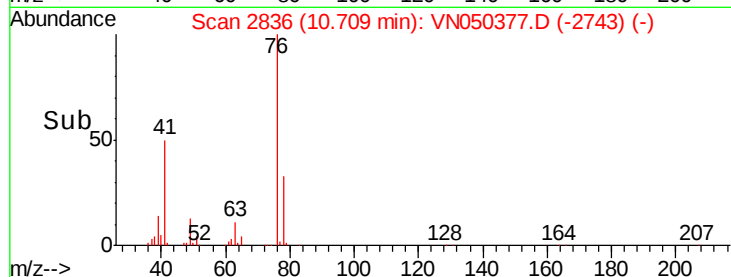
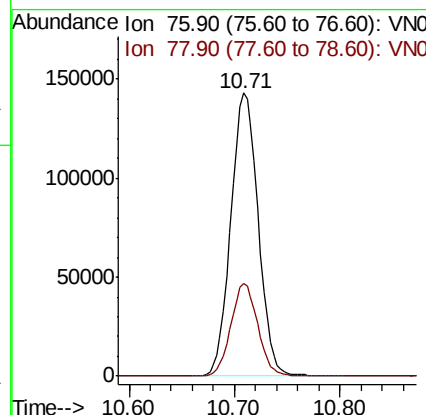
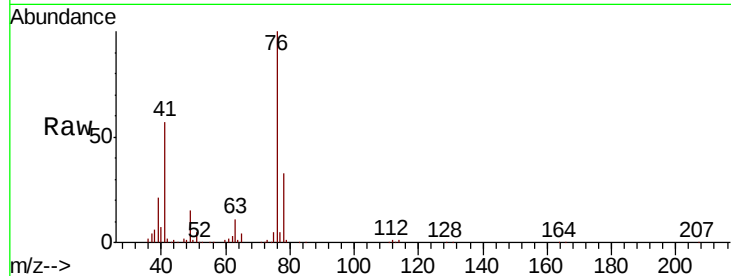
#57
 1,3-Dichloropropane
 Concen: 20.39 ug/l
 RT: 10.71 min Scan# 2836
 Delta R.T. -0.00 min
 Lab File: VN050377.D
 Acq: 6 Aug 2018 12:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.1	25.7	38.5

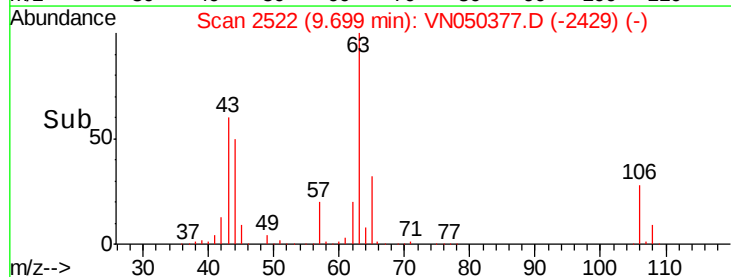
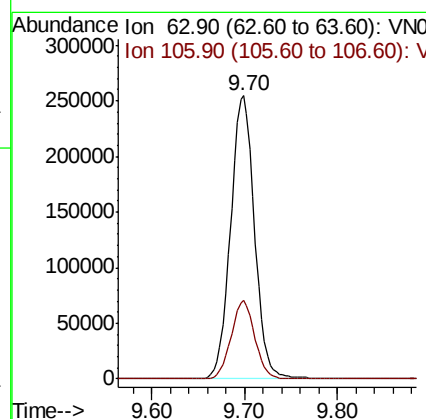
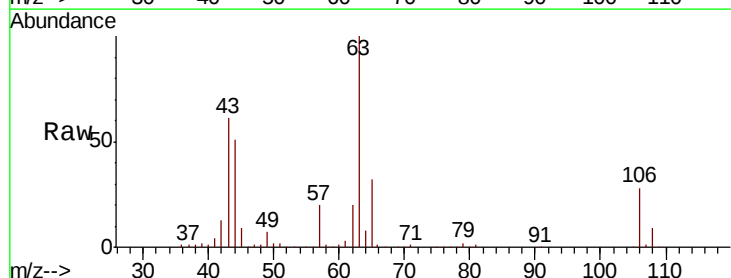
Manual Integrations
 APPROVED

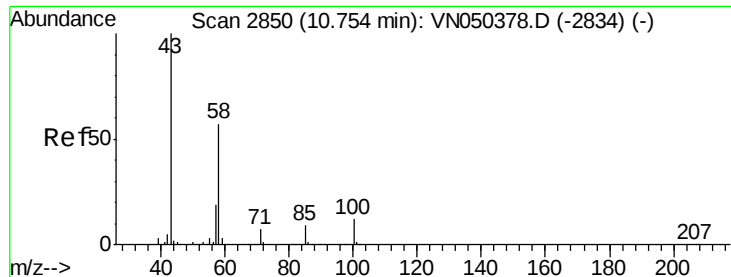
MMDadoda
 8/7/2018 9:58:01 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 106.90 ug/l
 RT: 9.70 min Scan# 2522
 Delta R.T. -0.00 min
 Lab File: VN050377.D
 Acq: 6 Aug 2018 12:00

Tgt Ion	Ratio	Lower	Upper
63	100		
106	27.3	21.7	32.5





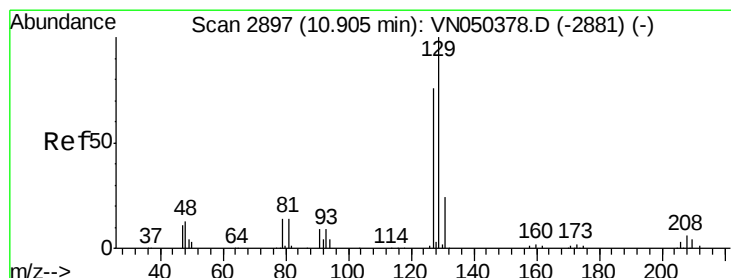
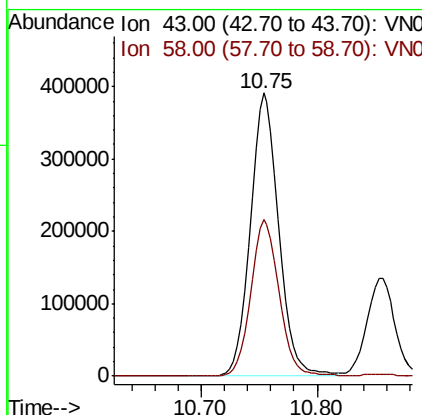
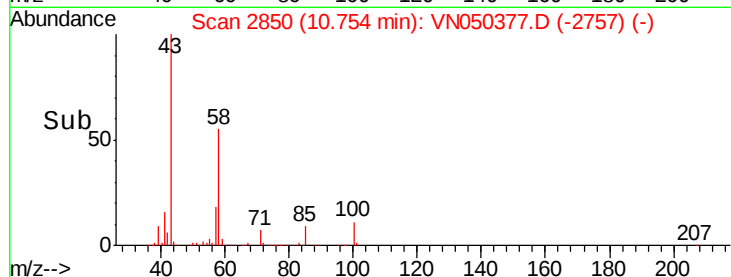
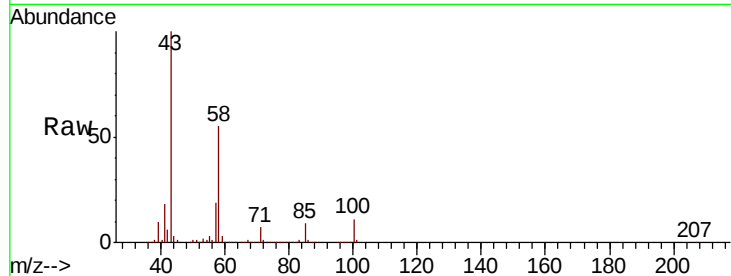
#59
2-Hexanone
Concen: 135.77 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. -0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	43	Resp	666545
Ion Ratio	100	Lower	Upper
43	100		
58	55.4	27.6	82.7

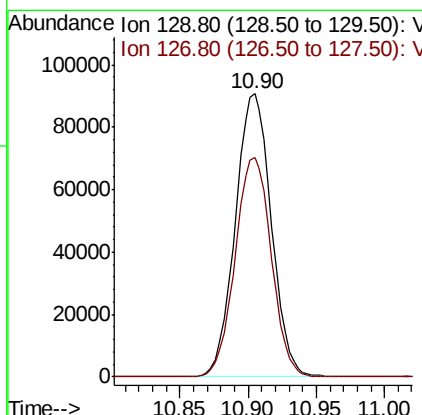
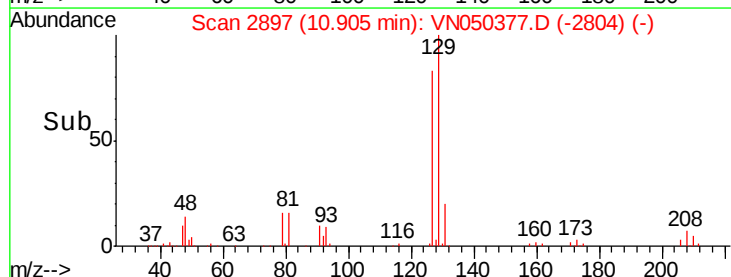
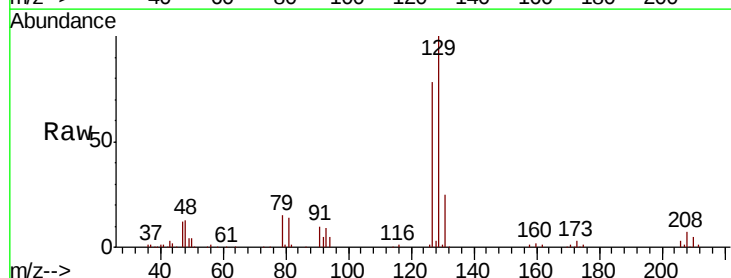
Manual Integrations
APPROVED

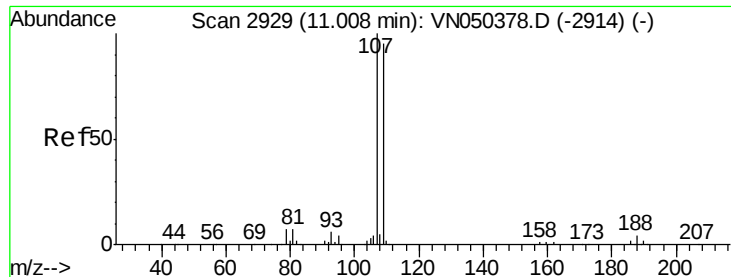
MMDadoda
8/7/2018 9:58:01 AM



#60
Dibromochloromethane
Concen: 19.43 ug/l
RT: 10.90 min Scan# 2897
Delta R.T. -0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Tgt Ion	129	Resp	166363
Ion Ratio	100	Lower	Upper
129	100		
127	77.7	38.0	113.9





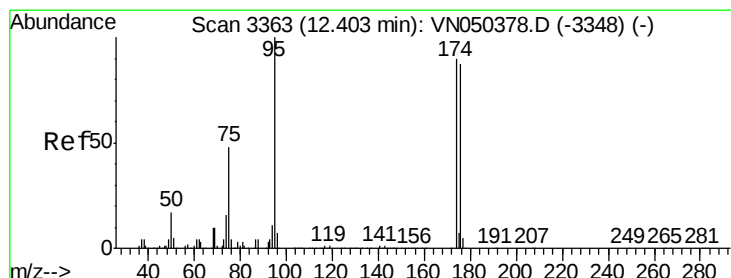
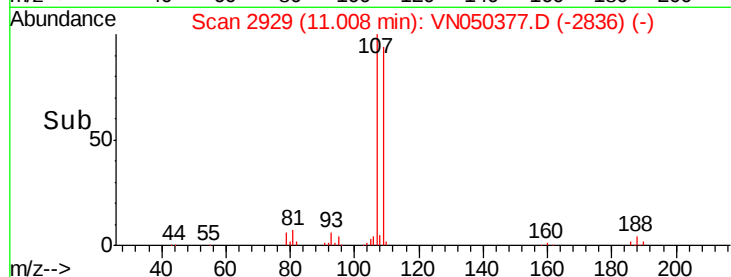
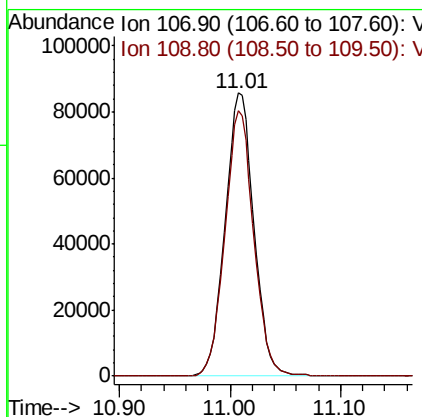
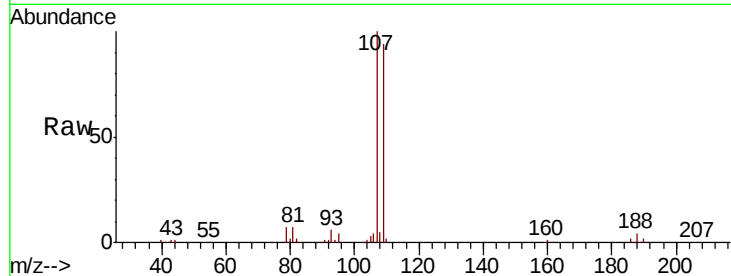
#61
 1,2-Dibromoethane
 Concen: 20.19 ug/l
 RT: 11.01 min Scan# 2929
 Delta R.T. -0.00 min
 Lab File: VN050377.D
 Acq: 6 Aug 2018 12:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
107	100	154918		
109	93.6	74.6	112.0	

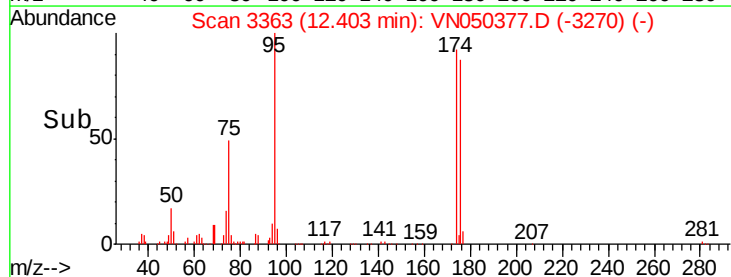
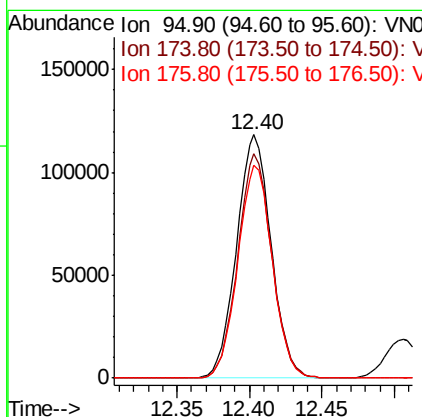
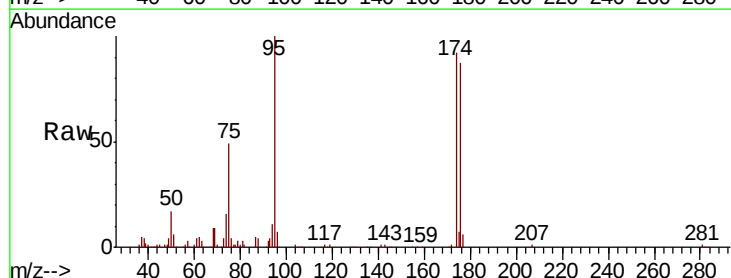
Manual Integrations
 APPROVED

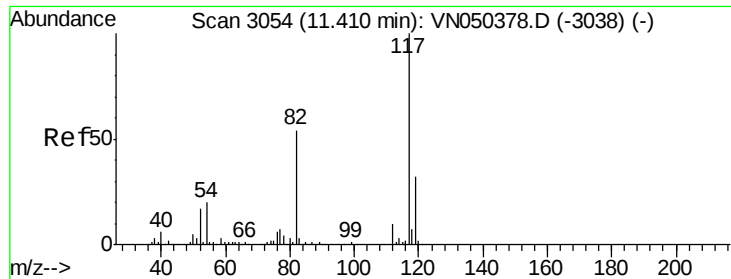
MMDadoda
 8/7/2018 9:58:01 AM



#62
 4-Bromofluorobenzene
 Concen: 20.54 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. -0.00 min
 Lab File: VN050377.D
 Acq: 6 Aug 2018 12:00

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	195581		
174	90.9	0.0	178.2	
176	87.5	0.0	173.4	





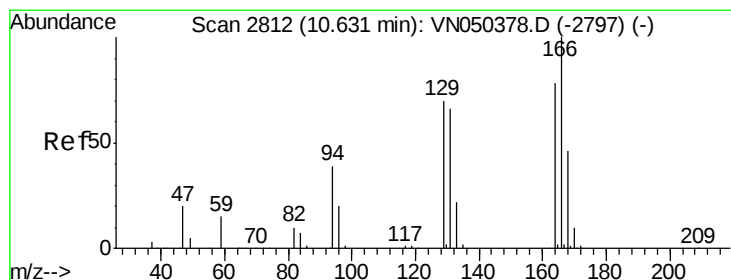
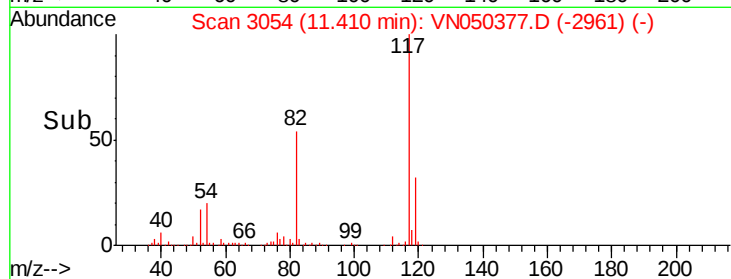
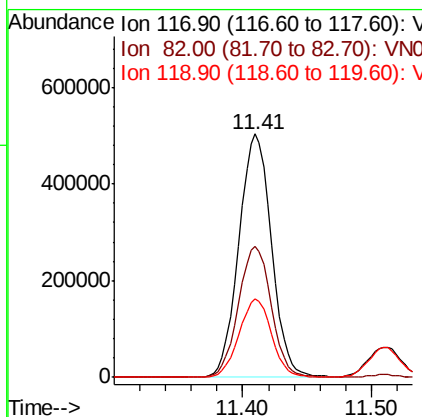
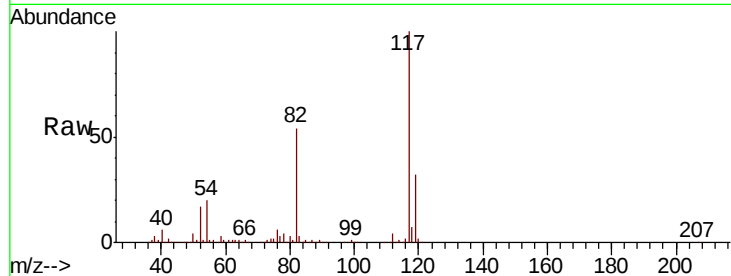
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.9	43.7	65.5
119	32.0	26.1	39.1

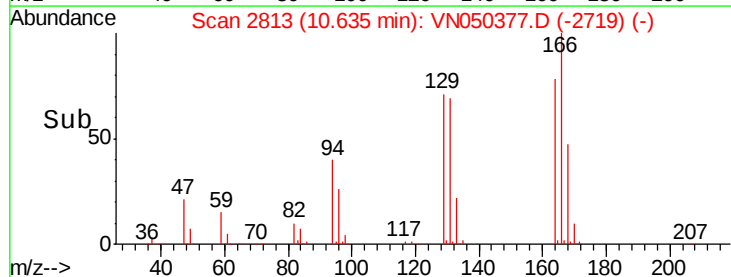
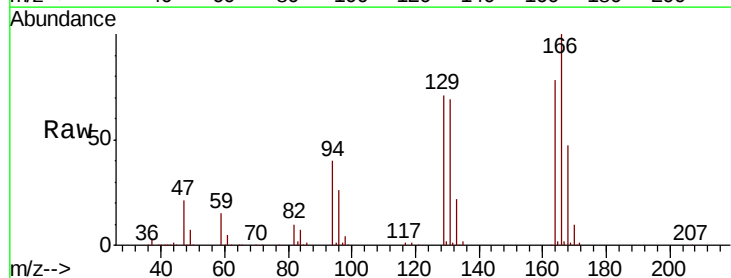
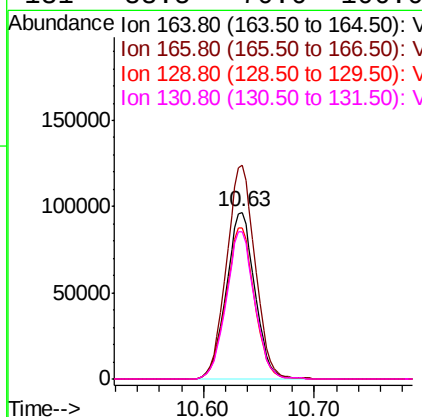
Manual Integrations
APPROVED

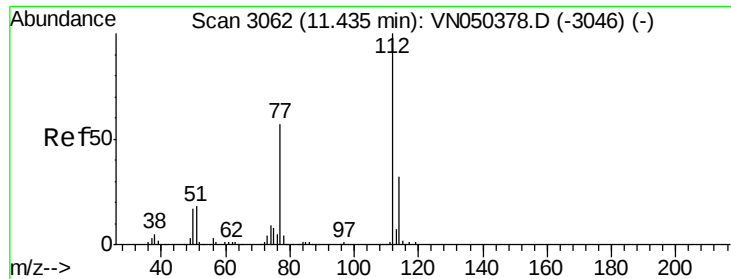
MMDadoda
8/7/2018 9:58:01 AM



#64
Tetrachloroethene
Concen: 20.30 ug/l
RT: 10.63 min Scan# 2813
Delta R.T. 0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.1	102.1	153.1
129	90.9	73.2	109.8
131	88.5	70.6	106.0





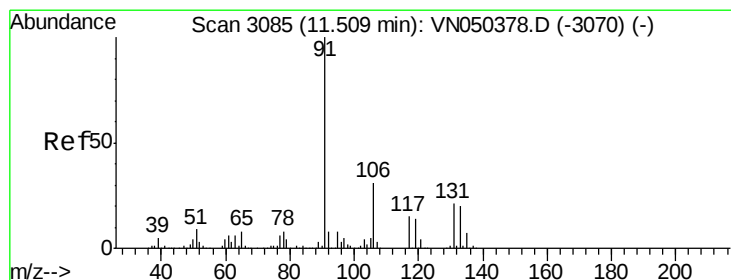
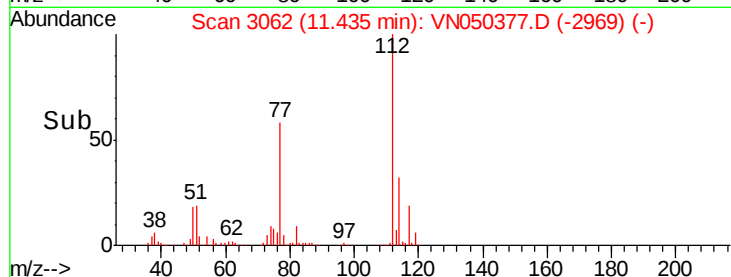
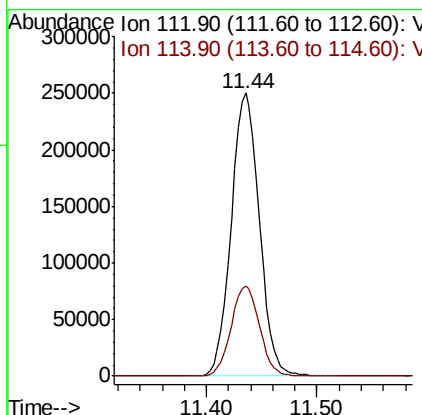
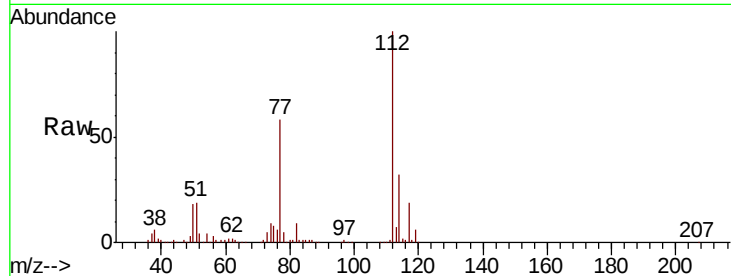
#65
Chlorobenzene
Concen: 19.74 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.1	25.6	38.4

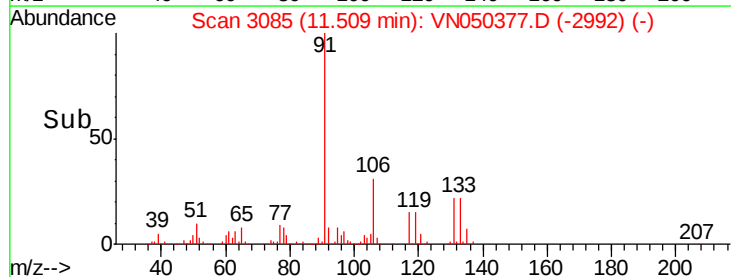
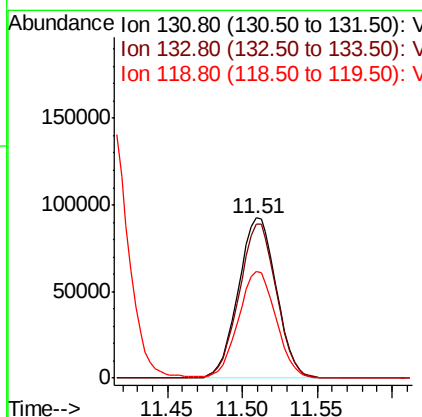
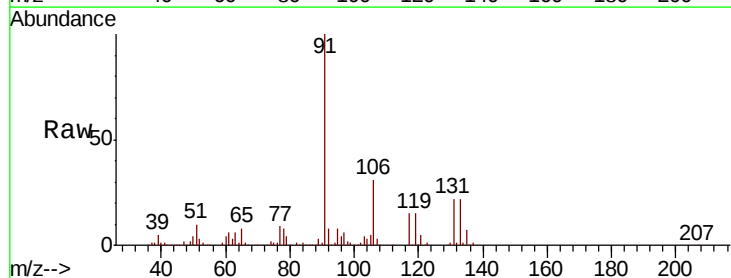
Manual Integrations
APPROVED

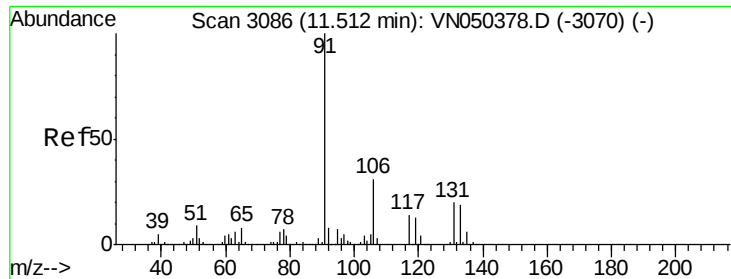
MMDadoda
8/7/2018 9:58:01 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 18.93 ug/l
RT: 11.51 min Scan# 3085
Delta R.T. -0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.1	47.3	141.9
119	66.2	32.9	98.7





#67

Ethyl Benzene

Concen: 20.38 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. -0.00 min

Lab File: VN050377.D

Acq: 6 Aug 2018 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 734132

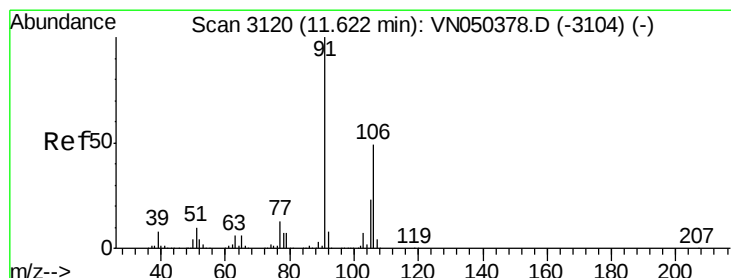
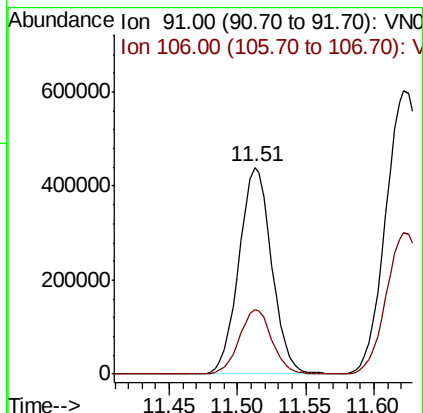
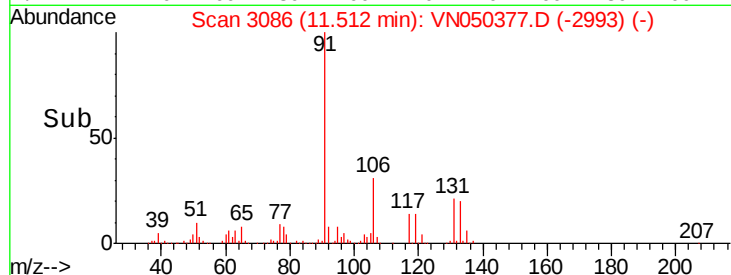
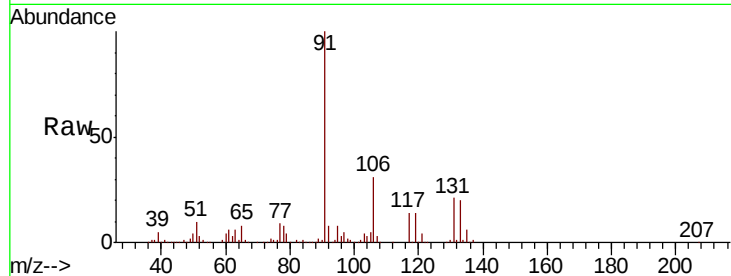
Ion Ratio Lower Upper

91 100

106 31.4 25.0 37.4

Manual Integrations
APPROVED

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8/7/2018 9:58:01 AM



#68

m/p-Xylenes

Concen: 42.74 ug/l

RT: 11.62 min Scan# 3120

Delta R.T. -0.00 min

Lab File: VN050377.D

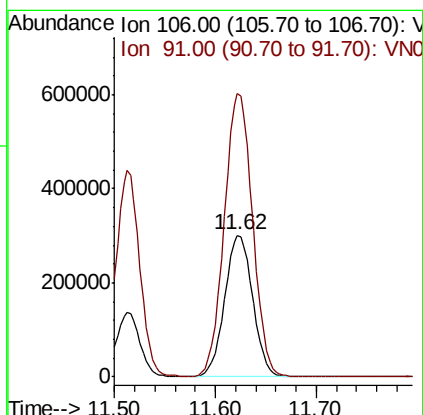
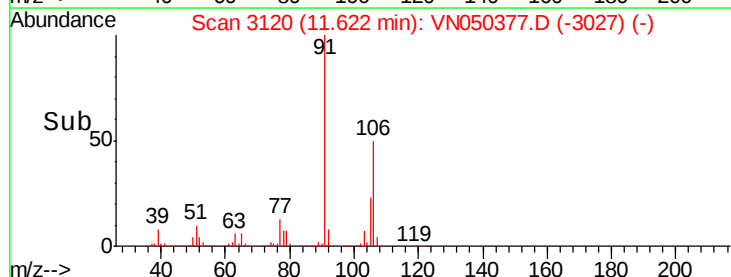
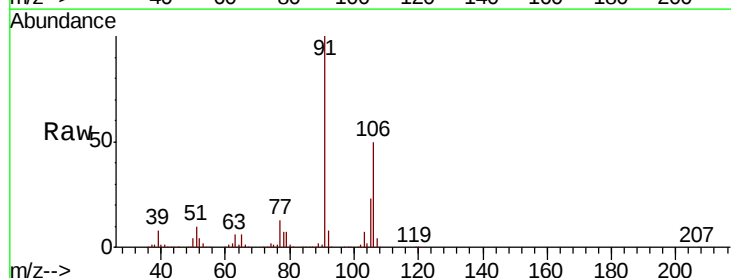
Acq: 6 Aug 2018 12:00

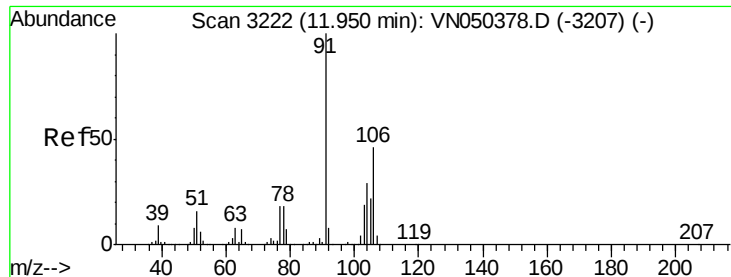
Tgt Ion: 106 Resp: 582518

Ion Ratio Lower Upper

106 100

91 202.7 162.2 243.2





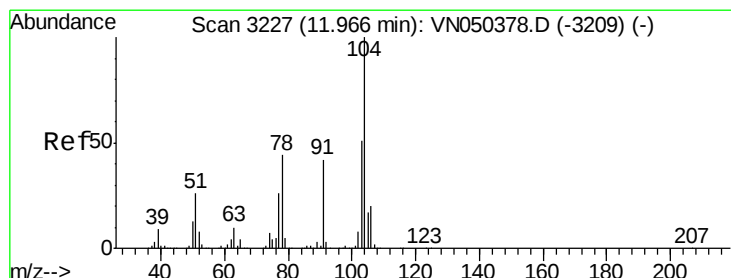
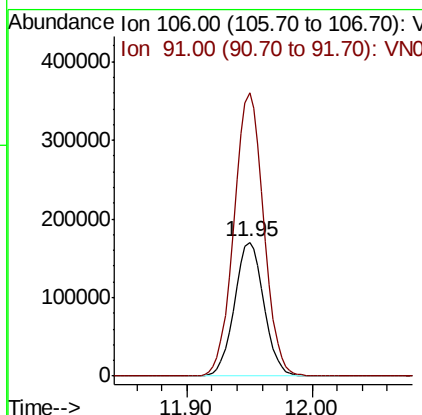
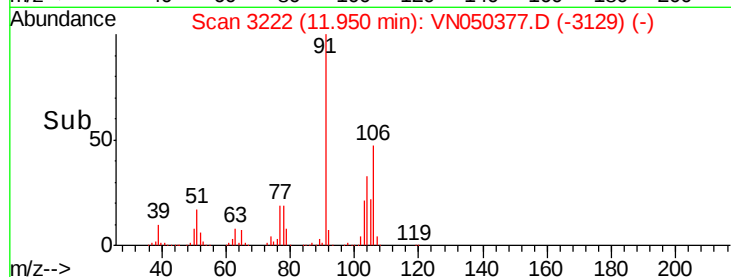
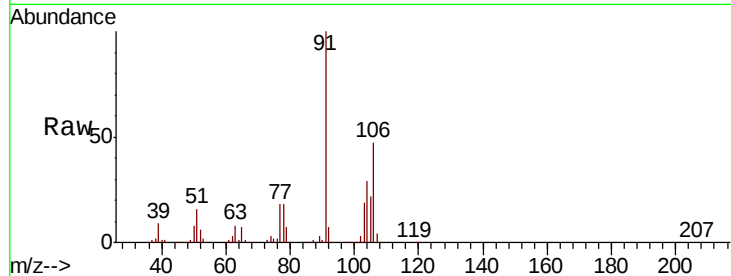
#69
o-Xylene
Concen: 21.29 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. -0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		276615		
91	214.2	107.7	323.1		

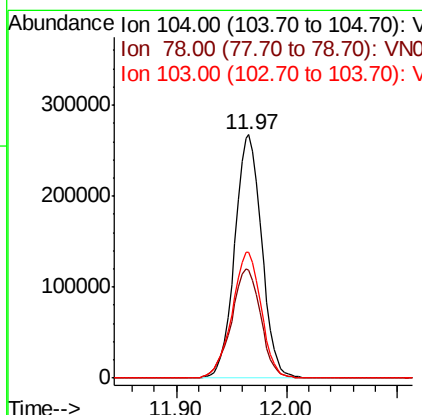
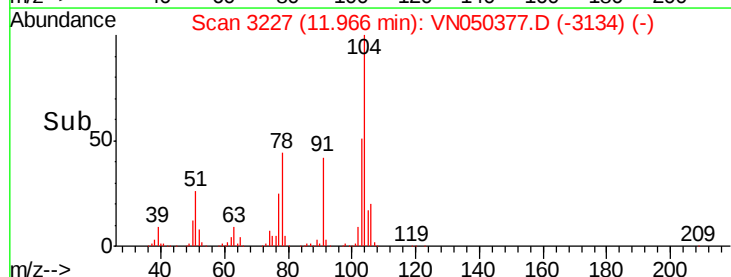
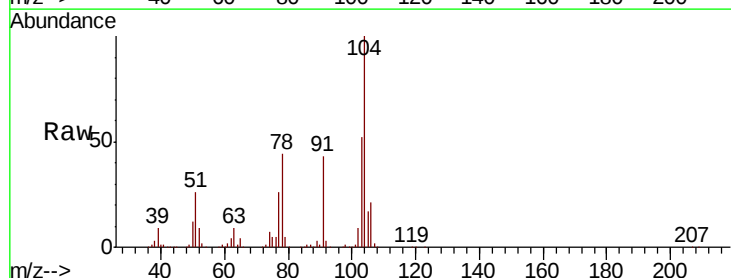
Manual Integrations
APPROVED

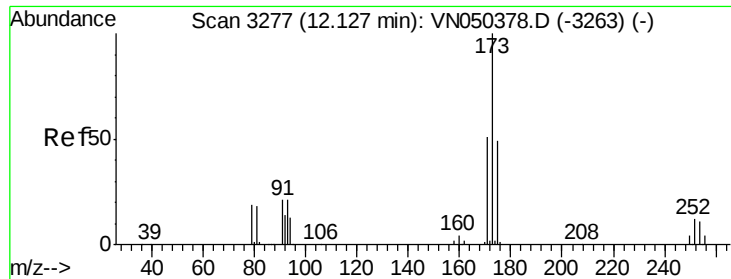
MMDadoda
8/7/2018 9:58:01 AM



#70
Styrene
Concen: 22.05 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. -0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		452988		
78	49.0	39.3	58.9		
103	56.0	45.0	67.6		





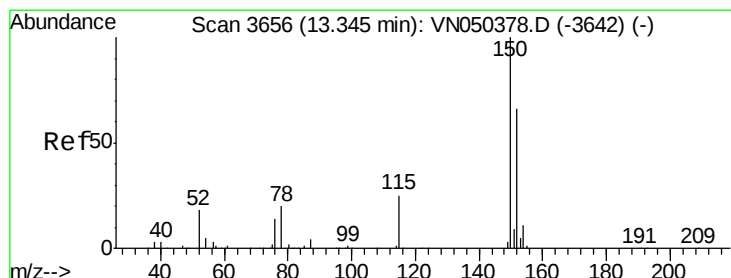
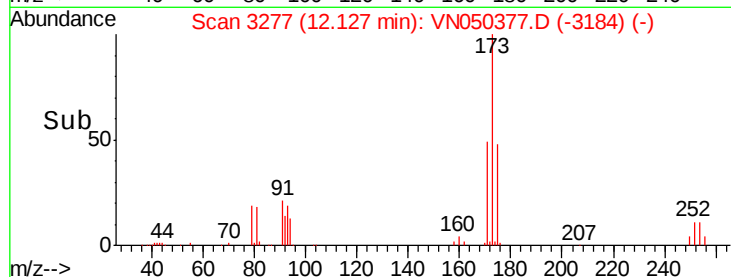
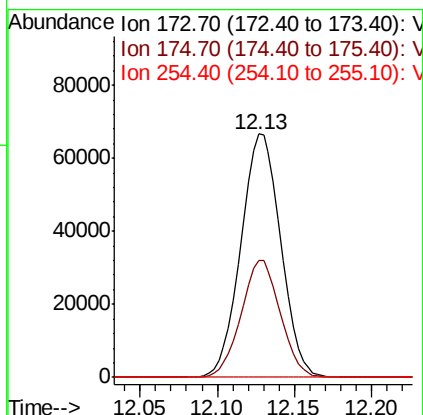
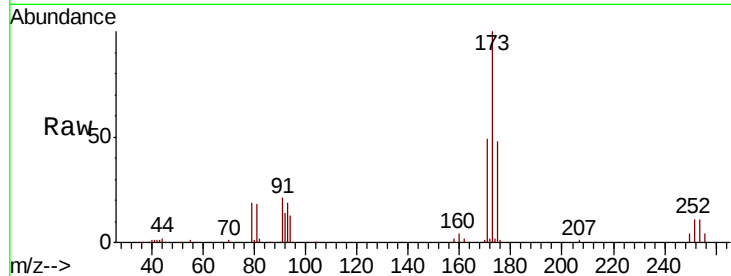
#71
Bromoform
Concen: 19.02 ug/l
RT: 12.13 min Scan# 3277
Delta R.T. -0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.3	24.1	72.2
254	0.0	0.2	0.2

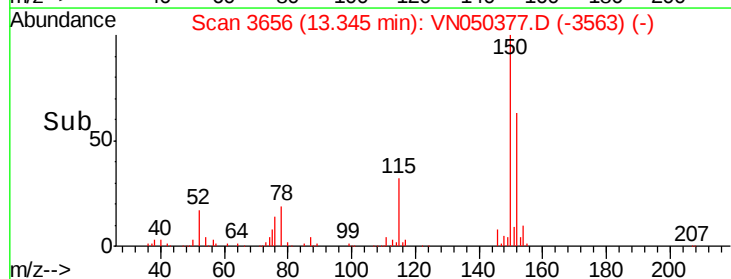
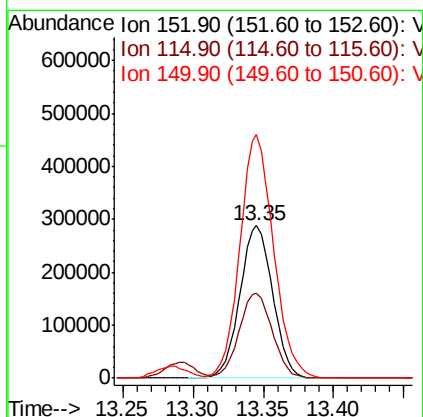
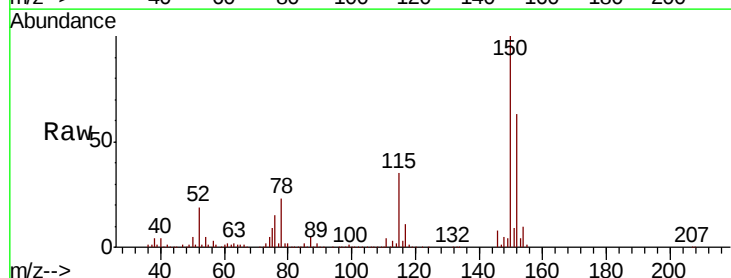
Manual Integrations
APPROVED

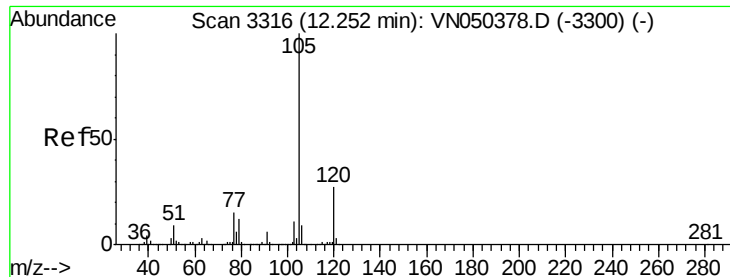
MMDadoda
8/7/2018 9:58:01 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. -0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.5	27.8	83.3
150	164.3	0.0	348.6





#73

Isopropylbenzene

Concen: 20.11 ug/l

RT: 12.25 min Scan# 3315

Delta R.T. -0.00 min

Lab File: VN050377.D

Acq: 6 Aug 2018 12:00

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion:105 Resp: 730969

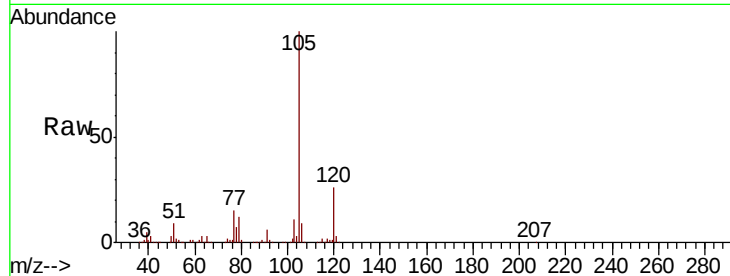
Ion Ratio Lower Upper

105 100

120 26.5 13.3 39.8

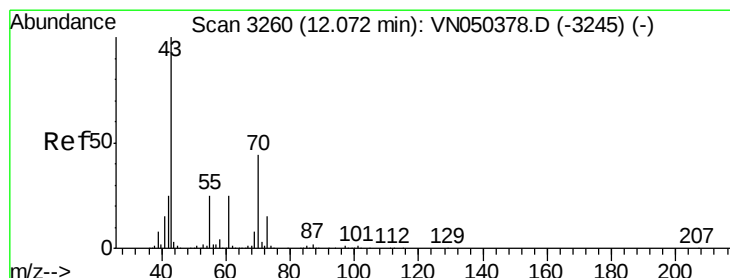
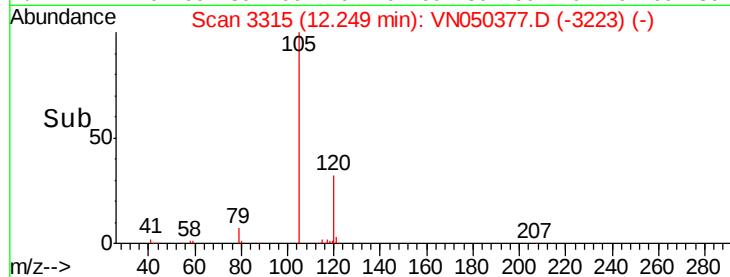
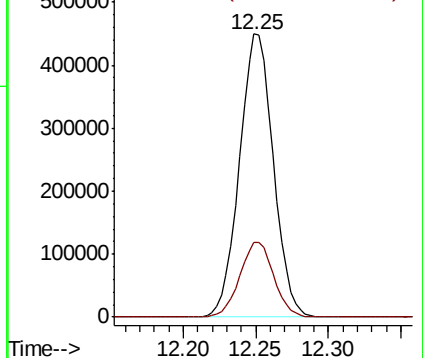
Manual Integrations
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MMDadoda
8/7/2018 9:58:01 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 20.39 ug/l

RT: 12.07 min Scan# 3260

Delta R.T. -0.00 min

Lab File: VN050377.D

Acq: 6 Aug 2018 12:00

Tgt Ion: 43 Resp: 226524

Ion Ratio Lower Upper

43 100

70 42.7 34.4 51.6

55 26.9 20.8 31.2

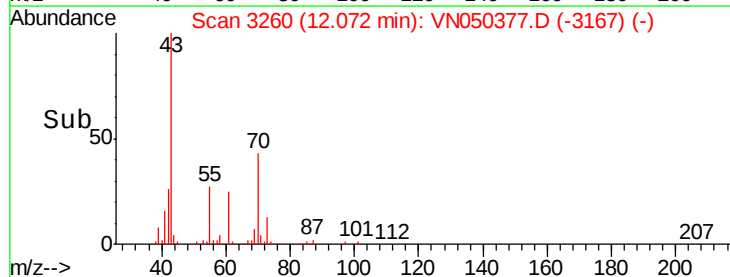
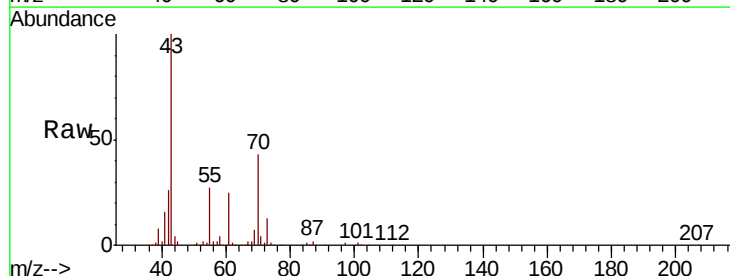
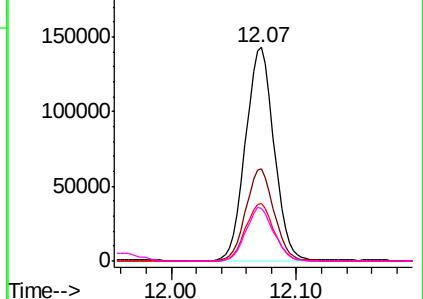
61 24.4 19.7 29.5

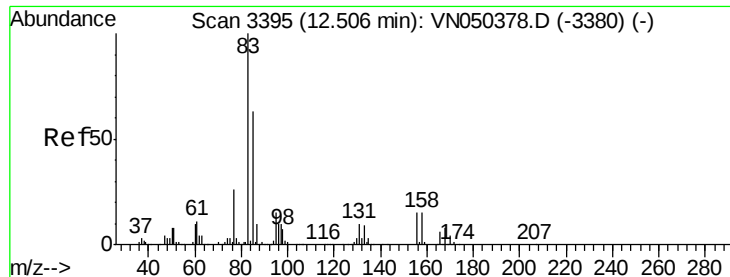
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 18.24 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. -0.00 min

Lab File: VN050377.D

Acq: 6 Aug 2018 12:00

Instrument :

MSVOA_N

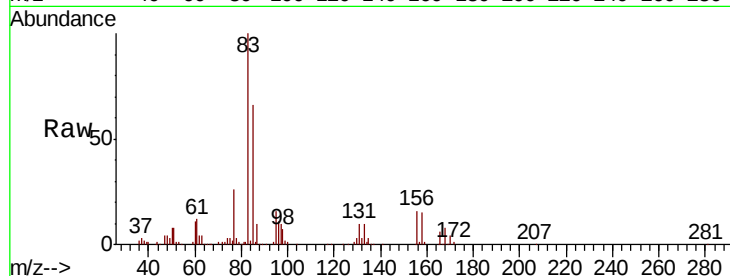
ClientSampleId :

VSTDIC020

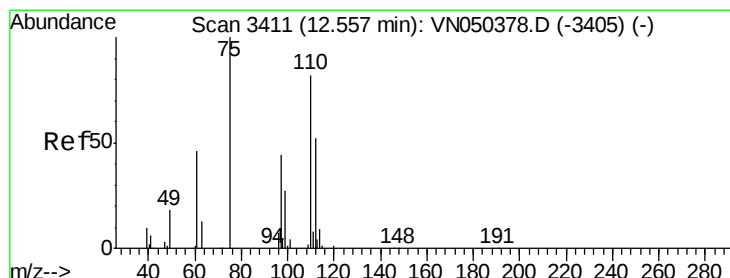
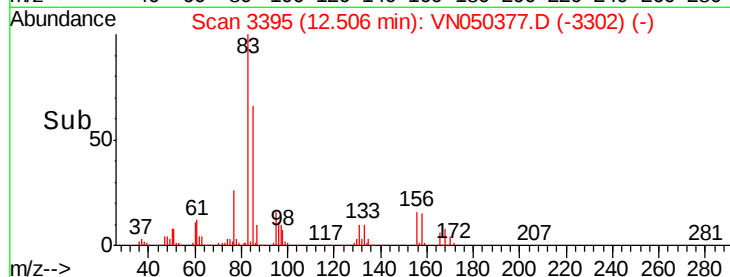
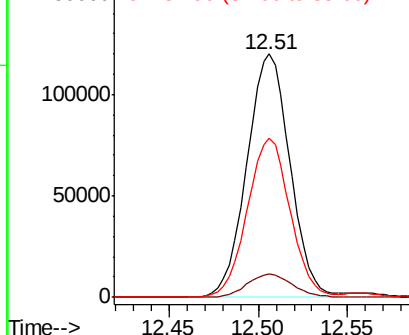
Tot Ion:	83	Resp:	202753
Ion Ratio	Lower	Upper	
83	100		
131	10.3	5.1	15.3
85	64.9	32.3	96.8

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Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 130.80 (130.50 to 131.50): V
Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 18.89 ug/l m

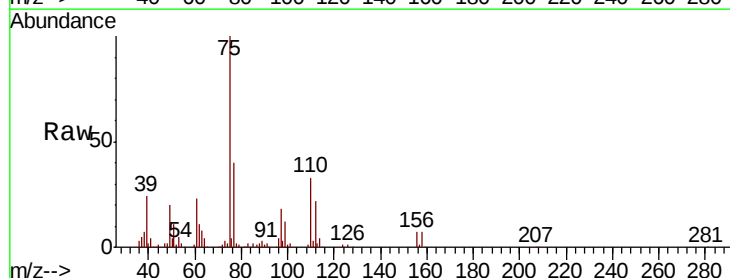
RT: 12.55 min Scan# 3410

Delta R.T. -0.00 min

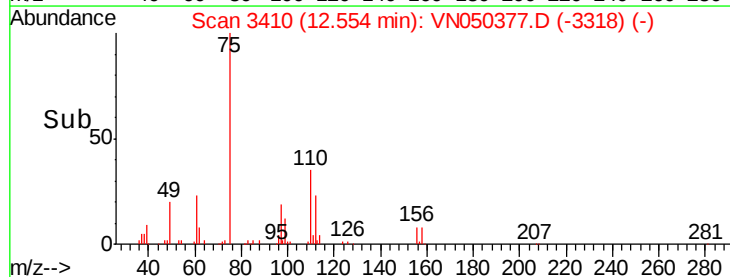
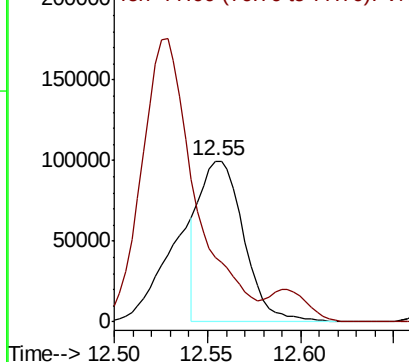
Lab File: VN050377.D

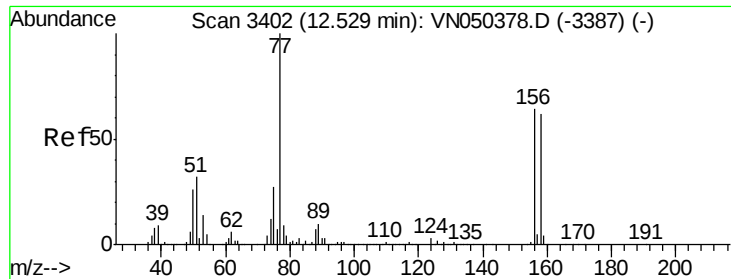
Acq: 6 Aug 2018 12:00

Tgt Ion:	75	Resp:	164505
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: 19.15 ug/l

RT: 12.53 min Scan# 3402

Delta R.T. -0.00 min

Lab File: VN050377.D

Acq: 6 Aug 2018 12:00

Instrument :

MSVOA_N

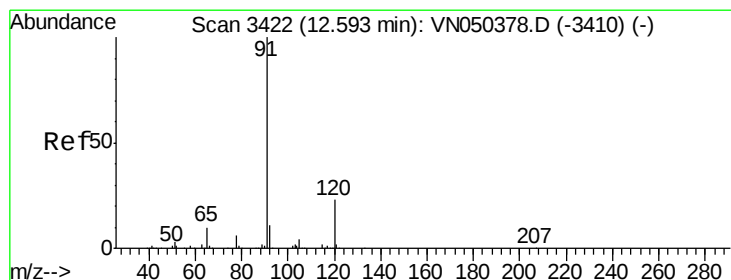
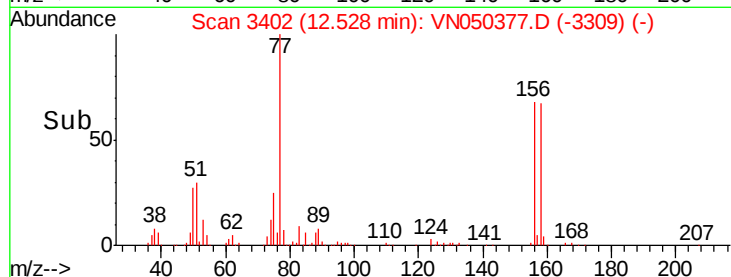
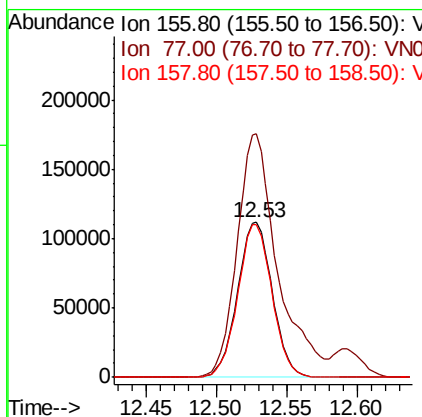
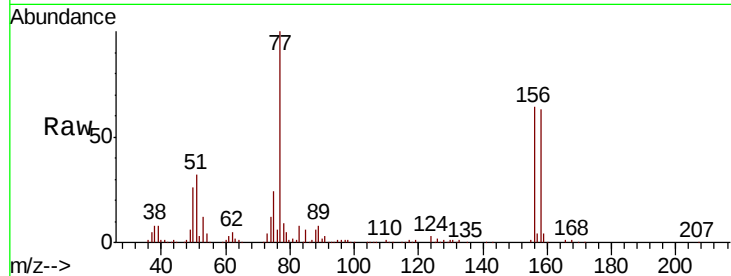
ClientSampleId :

VSTDIC020

Tot Ion:	156	Resp:	192867
Ion Ratio	Lower	Upper	
156	100		
77	182.8	91.7	275.1
158	97.5	48.9	146.6

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#78

n-propylbenzene

Concen: 20.52 ug/l

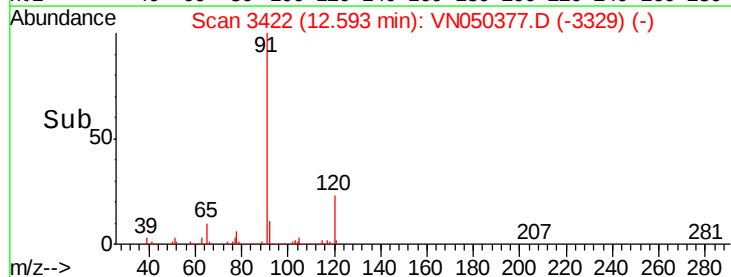
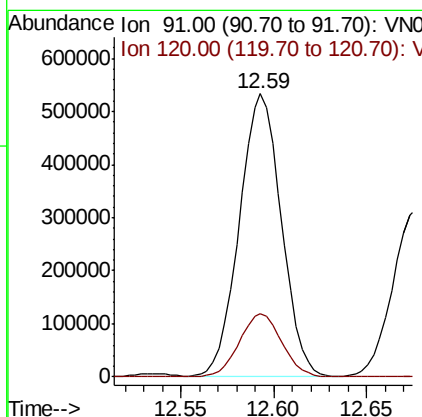
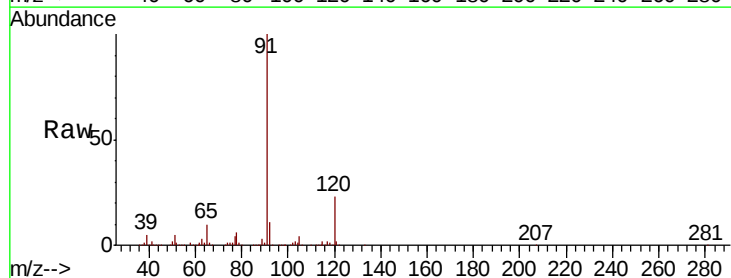
RT: 12.59 min Scan# 3422

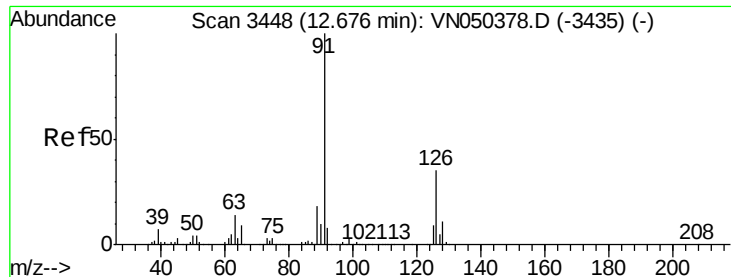
Delta R.T. -0.00 min

Lab File: VN050377.D

Acq: 6 Aug 2018 12:00

Tgt Ion:	91	Resp:	833503
Ion Ratio	Lower	Upper	
91	100		
120	22.7	11.6	34.7





#79

2-Chlorotoluene

Concen: 20.33 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. -0.00 min

Lab File: VN050377.D

Acq: 6 Aug 2018 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 511991

Ion Ratio Lower Upper

91 100

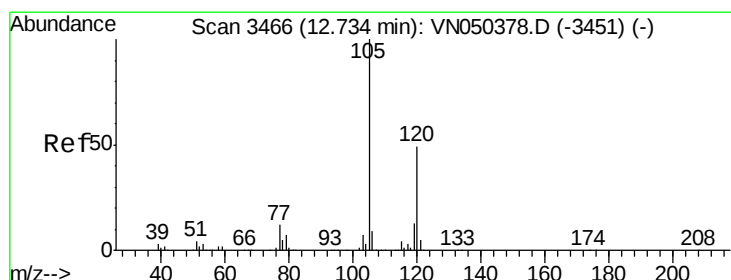
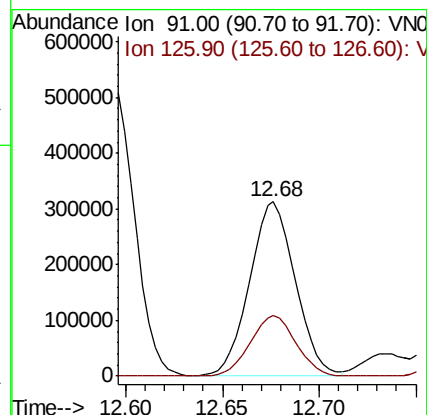
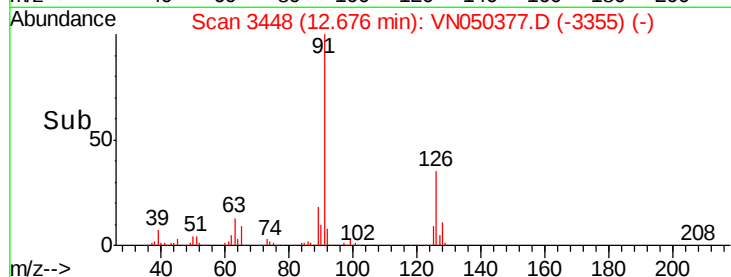
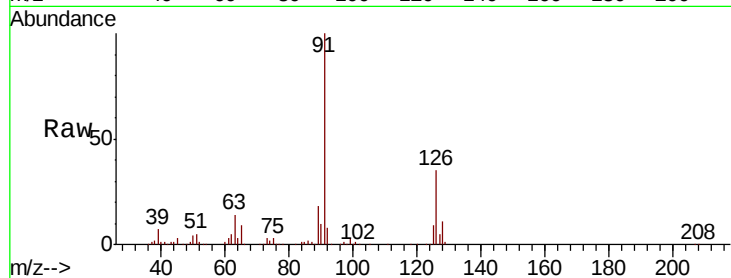
126 34.9 17.6 52.8

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#80

1,3,5-Trimethylbenzene

Concen: 21.42 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. -0.00 min

Lab File: VN050377.D

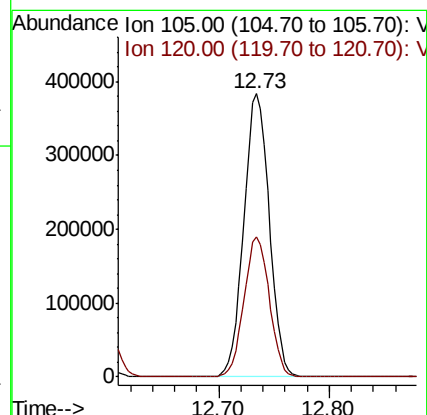
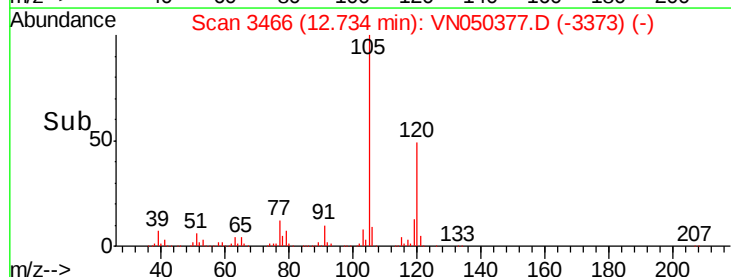
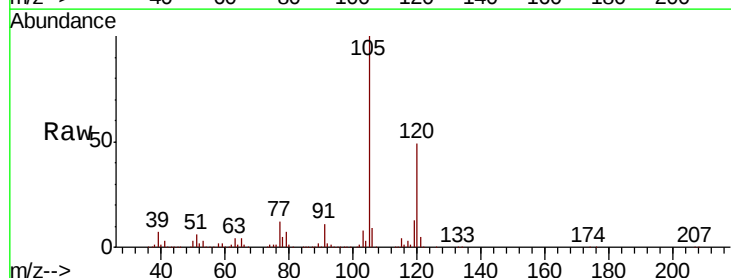
Acq: 6 Aug 2018 12:00

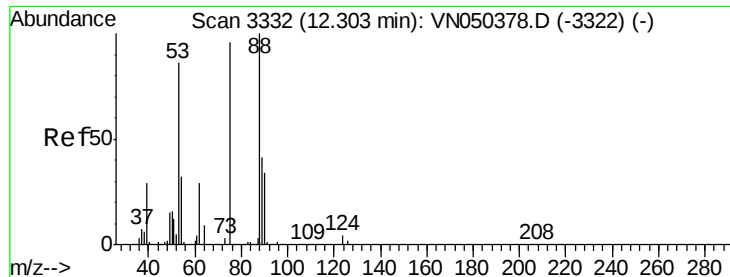
Tgt Ion: 105 Resp: 612278

Ion Ratio Lower Upper

105 100

120 49.4 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 16.88 ug/l

RT: 12.30 min Scan# 3332

Delta R.T. -0.00 min

Lab File: VN050377.D

Acq: 6 Aug 2018 12:00

Instrument :

MSVOA_N

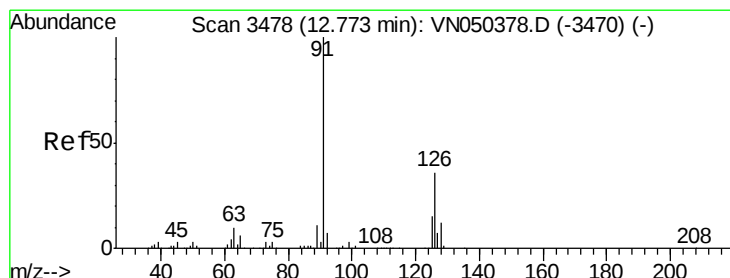
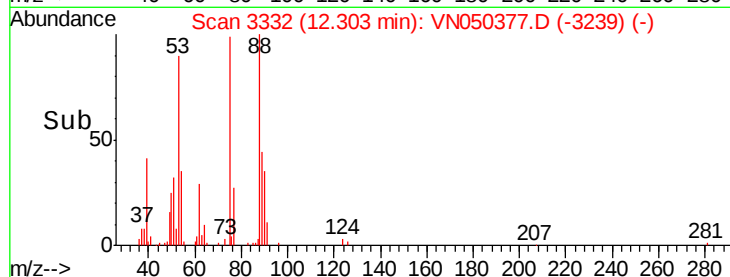
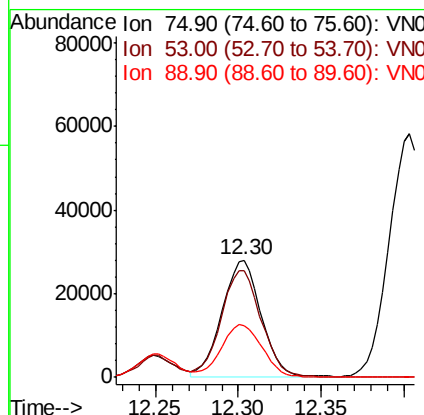
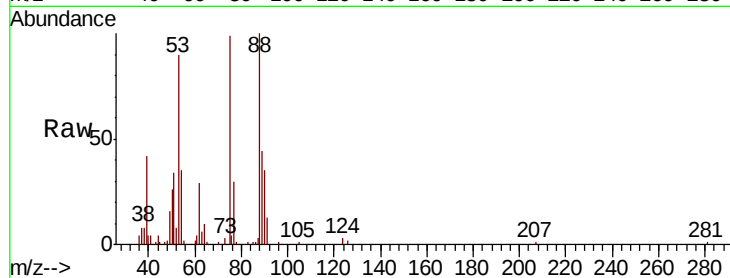
ClientSampleId :

VSTDIC020

Tot Ion:	75	Resp:	46347
Ion	Ratio	Lower	Upper
75	100		
53	93.1	73.5	110.3
89	46.4	36.0	54.0

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#82

4-Chlorotoluene

Concen: 20.62 ug/l

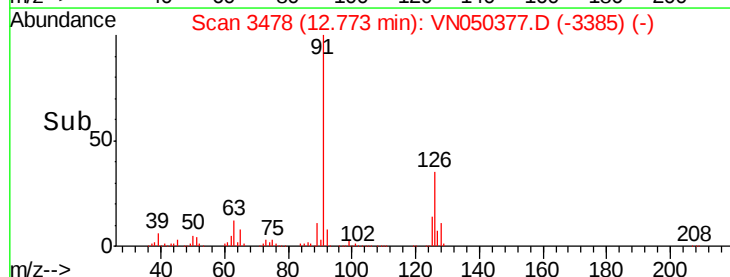
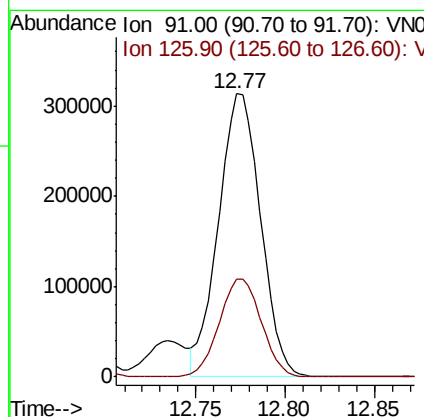
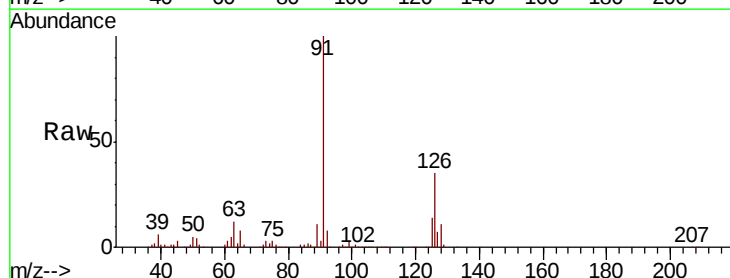
RT: 12.77 min Scan# 3478

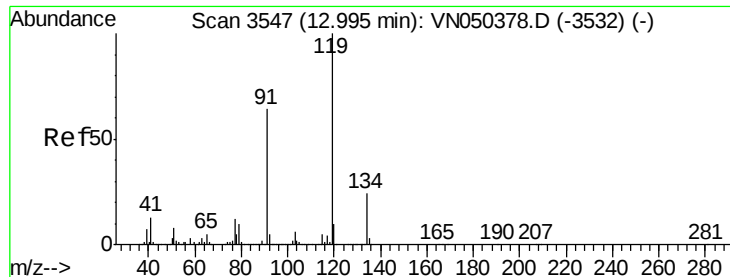
Delta R.T. -0.00 min

Lab File: VN050377.D

Acq: 6 Aug 2018 12:00

Tgt Ion:	91	Resp:	514233
Ion	Ratio	Lower	Upper
91	100		
126	34.8	17.0	51.0





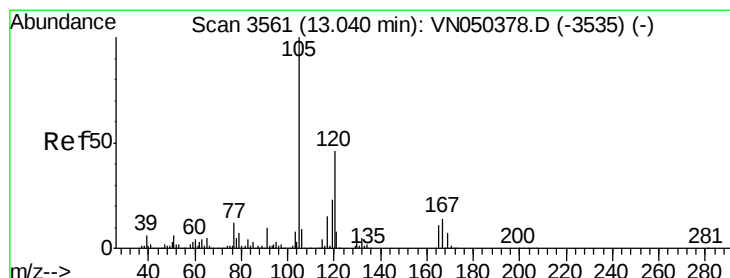
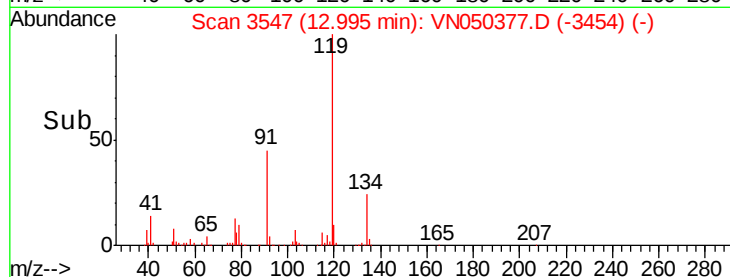
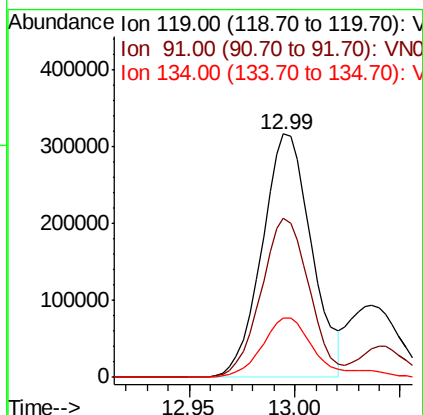
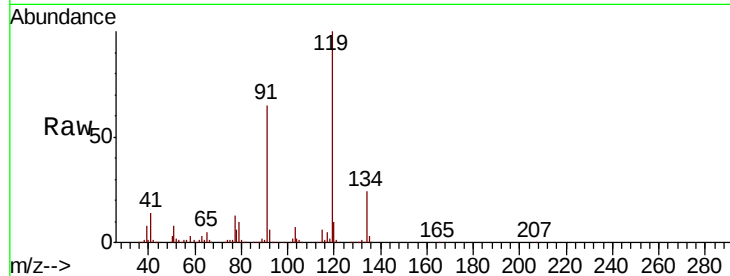
#83
 tert-Butylbenzene
 Concen: 20.68 ug/l
 RT: 12.99 min Scan# 3547
 Delta R.T. -0.00 min
 Lab File: VN050377.D
 Acq: 6 Aug 2018 12:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
119	100		
91	63.7	32.1	96.3
134	26.7	13.2	39.5

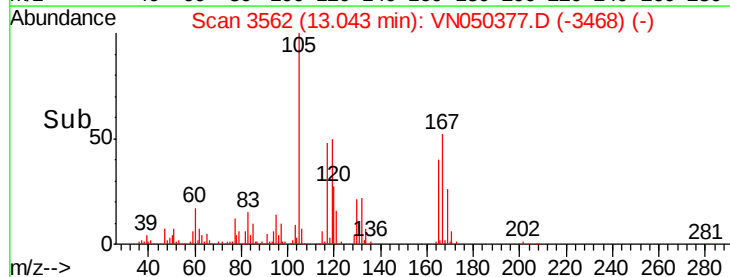
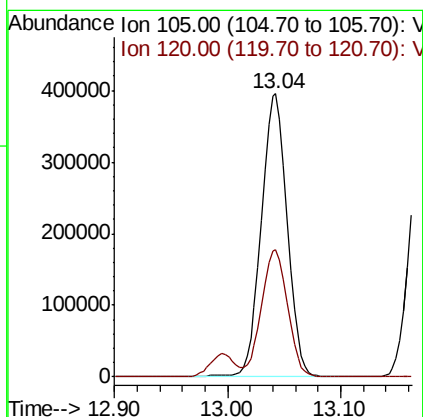
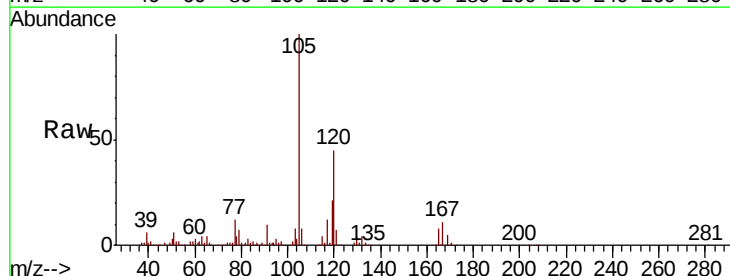
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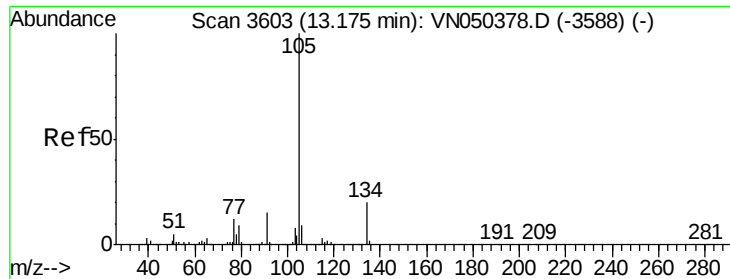
MMDadoda
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#84
 1,2,4-Trimethylbenzene
 Concen: 21.81 ug/l
 RT: 13.04 min Scan# 3562
 Delta R.T. 0.00 min
 Lab File: VN050377.D
 Acq: 6 Aug 2018 12:00

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.2	22.9	68.7





#85

sec-Butylbenzene

Concen: 21.02 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. -0.00 min

Lab File: VN050377.D

Acq: 6 Aug 2018 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 700883

Ion Ratio Lower Upper

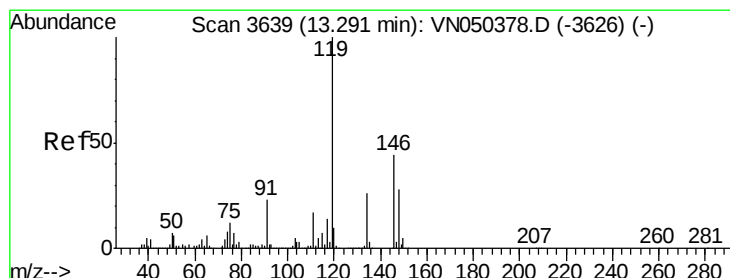
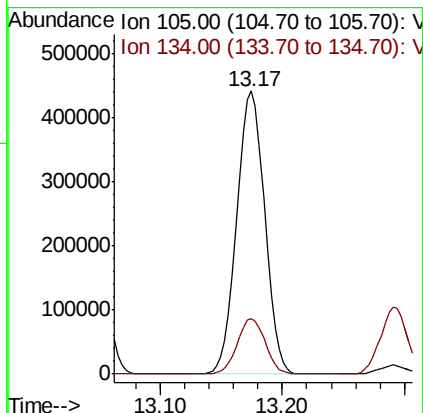
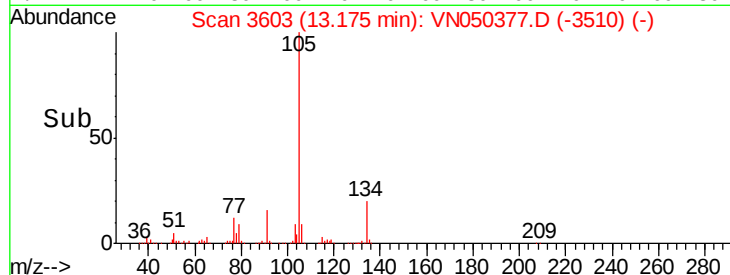
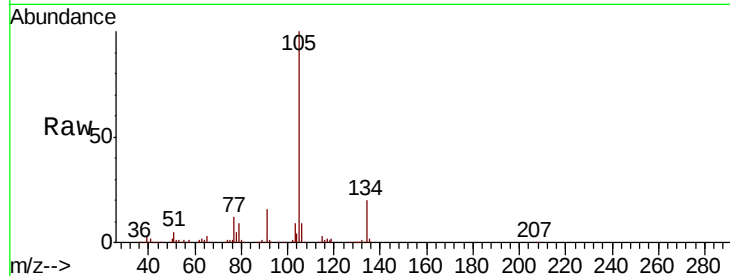
105 100

134 19.6 10.1 30.1

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#86

p-Isopropyltoluene

Concen: 21.51 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. -0.00 min

Lab File: VN050377.D

Acq: 6 Aug 2018 12:00

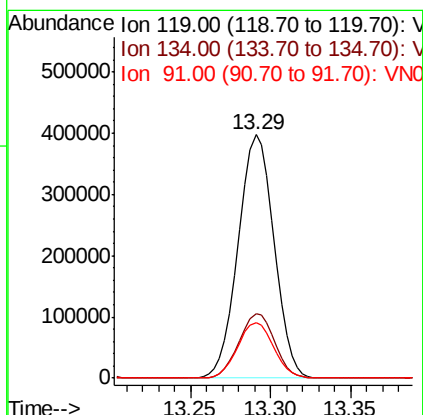
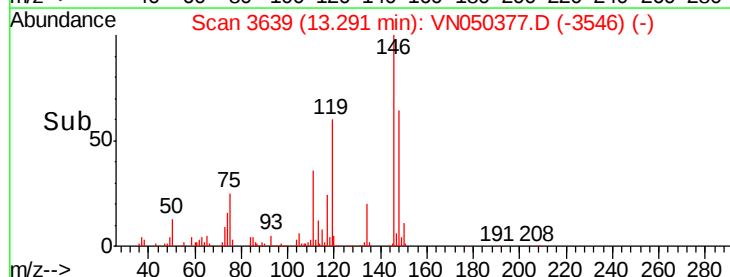
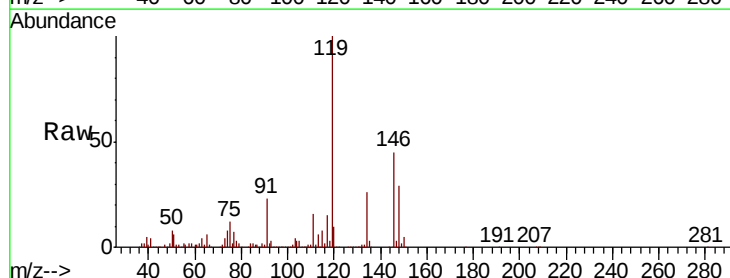
Tgt Ion:119 Resp: 604115

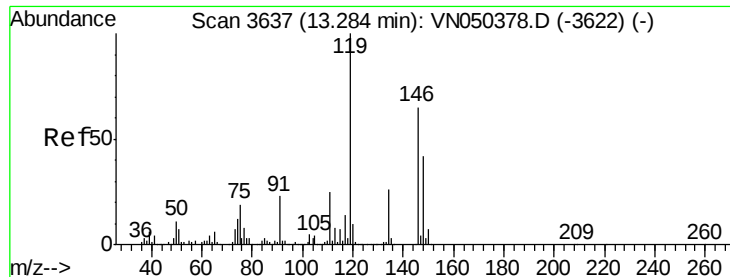
Ion Ratio Lower Upper

119 100

134 26.3 13.3 39.8

91 22.9 11.4 34.2





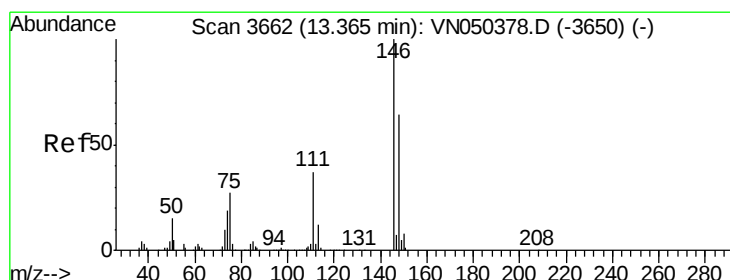
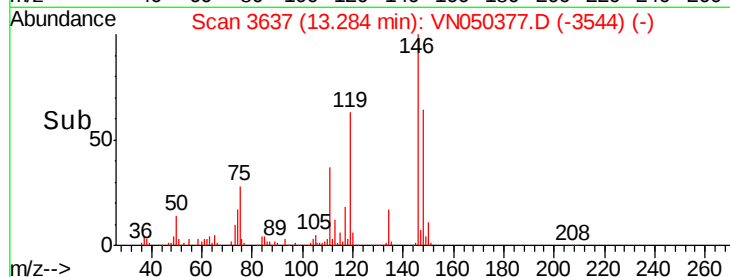
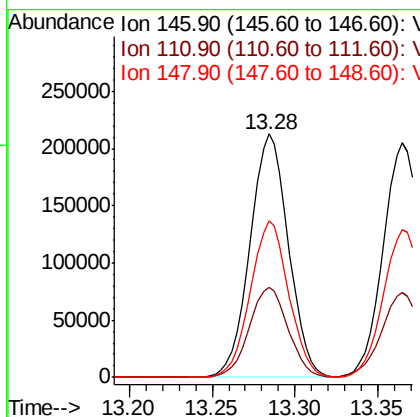
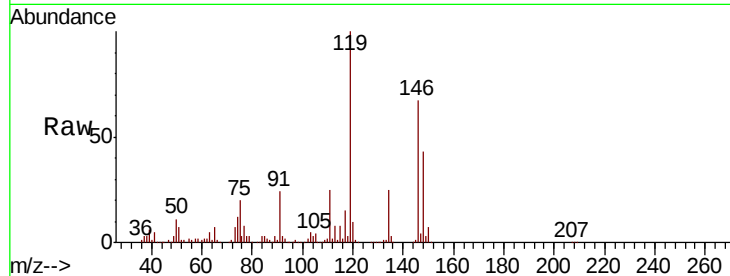
#87
 1,3-Dichlorobenzene
 Concen: 20.02 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. -0.00 min
 Lab File: VN050377.D
 Acq: 6 Aug 2018 12:00

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
146	100	341798		
111	37.3	18.8	56.4	
148	64.2	31.9	95.9	

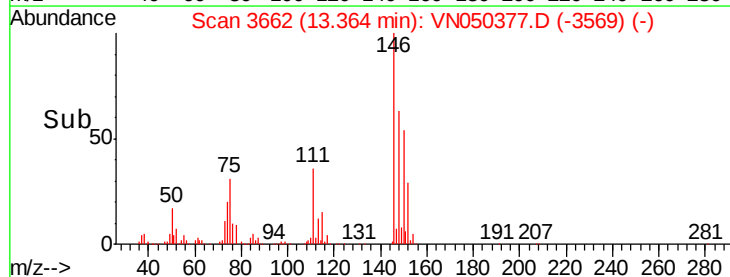
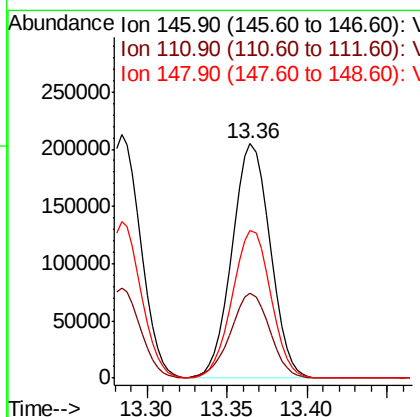
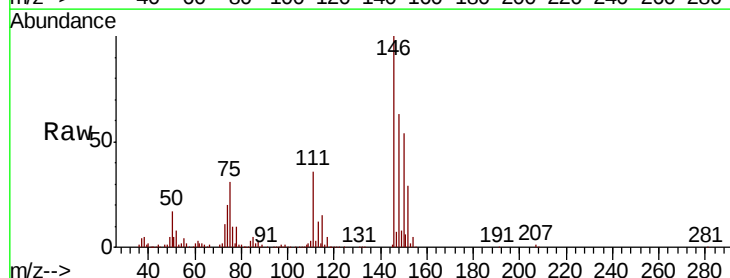
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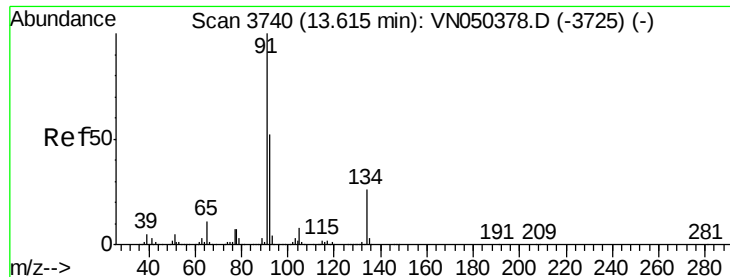
MMDadoda
 8/7/2018 9:58:01 AM



#88
 1,4-Dichlorobenzene
 Concen: 20.02 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. -0.00 min
 Lab File: VN050377.D
 Acq: 6 Aug 2018 12:00

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	333265		
111	37.6	18.3	54.9	
148	63.7	31.9	95.9	





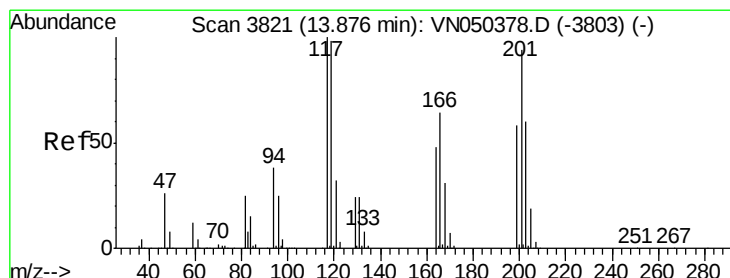
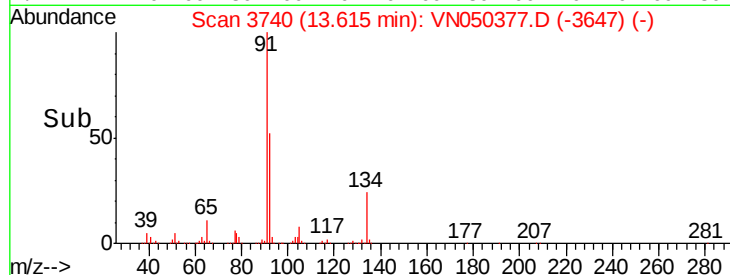
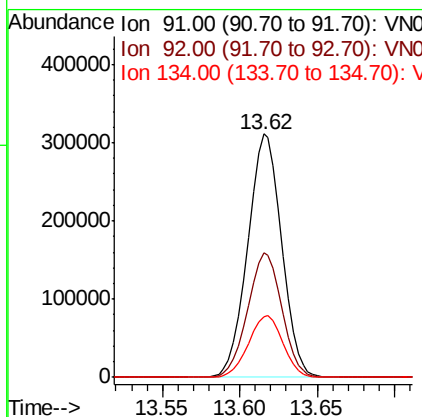
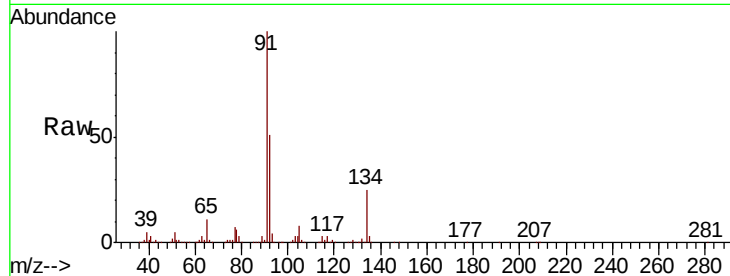
#89
n-Butylbenzene
Concen: 20.60 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. -0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.4	25.8	77.4
134	25.8	12.8	38.4

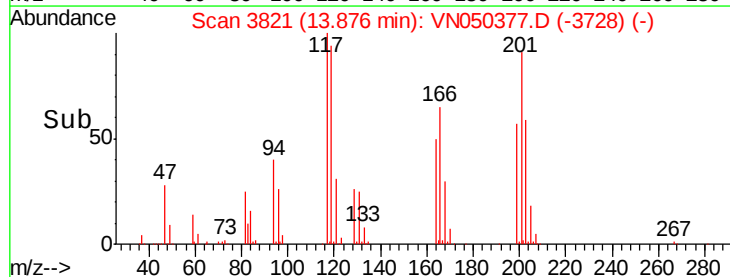
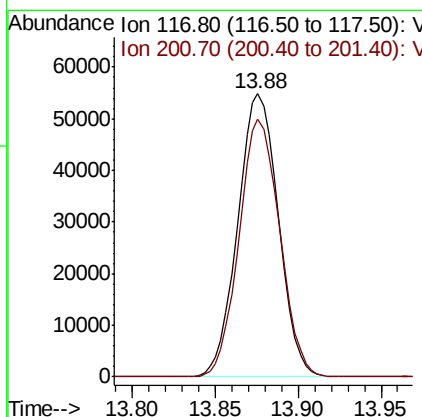
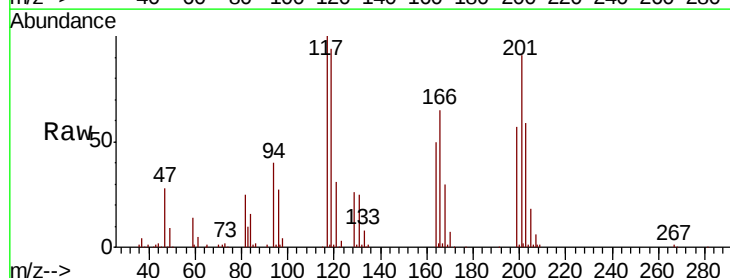
Manual Integrations
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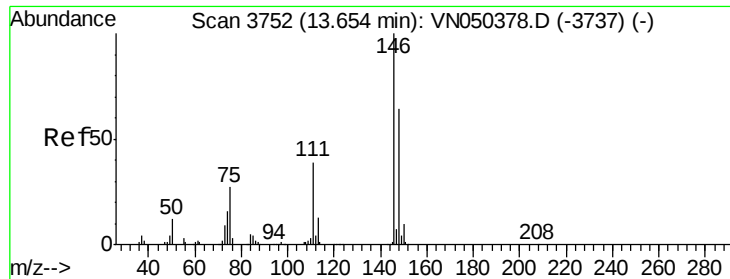
MMDadoda
8/7/2018 9:58:01 AM



#90
Hexachloroethane
Concen: 14.97 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. -0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Tgt Ion	Ratio	Lower	Upper
117	100		
201	91.2	45.6	136.8





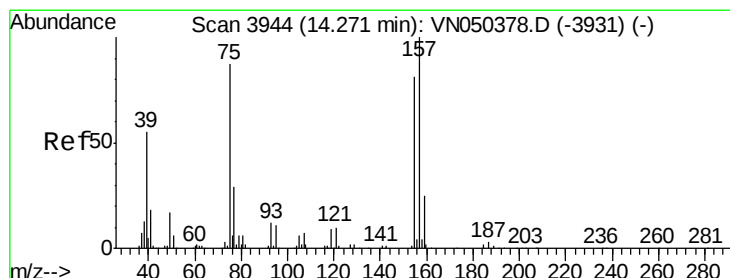
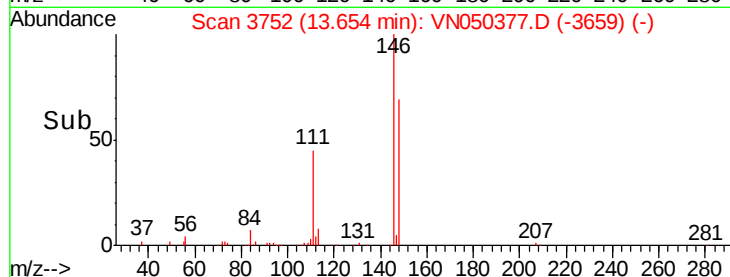
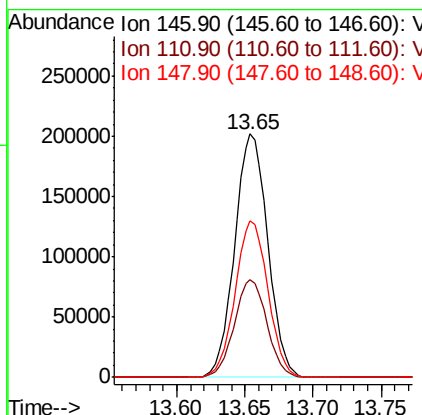
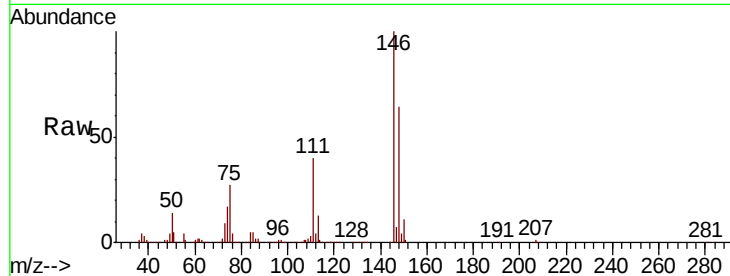
#91
 1,2-Dichlorobenzene
 Concen: 19.90 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. -0.00 min
 Lab File: VN050377.D
 Acq: 6 Aug 2018 12:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.6	19.6	58.7
148	63.7	32.1	96.3

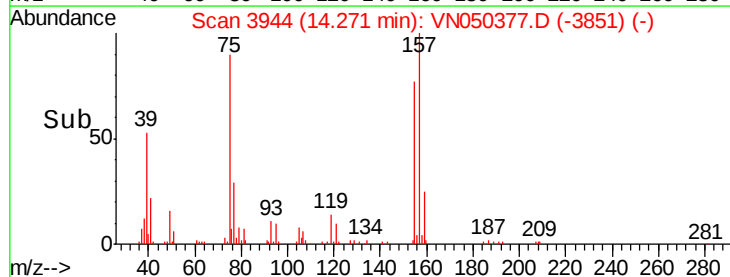
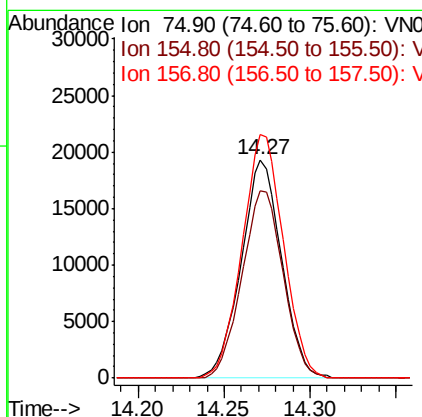
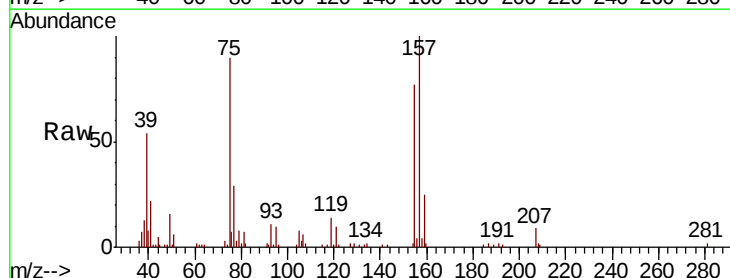
Manual Integrations
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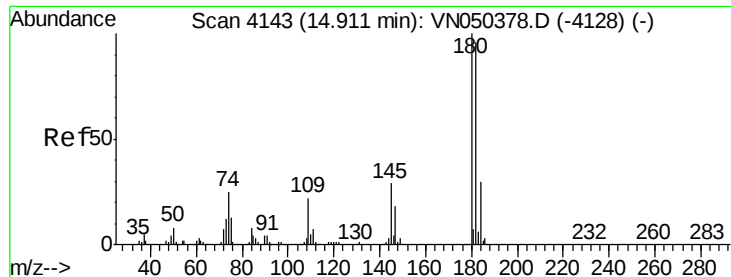
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 17.61 ug/l
 RT: 14.27 min Scan# 3944
 Delta R.T. -0.00 min
 Lab File: VN050377.D
 Acq: 6 Aug 2018 12:00

Tgt Ion	Ratio	Lower	Upper
75	100		
155	87.3	44.8	134.4
157	114.1	57.2	171.6





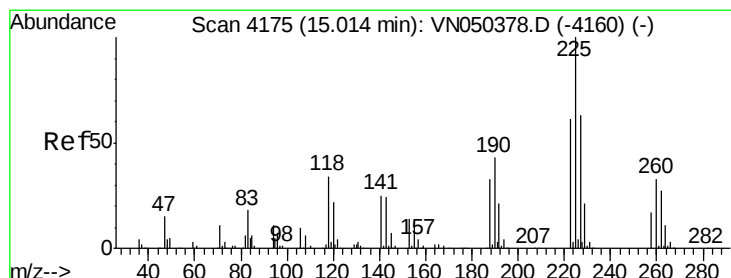
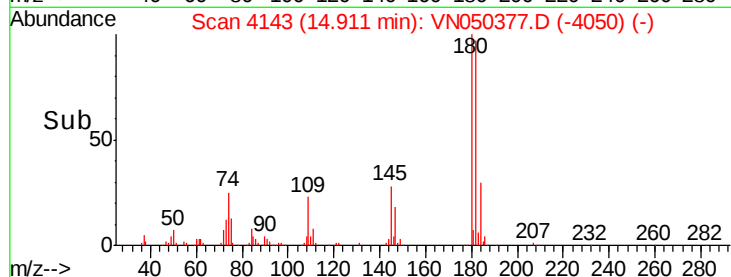
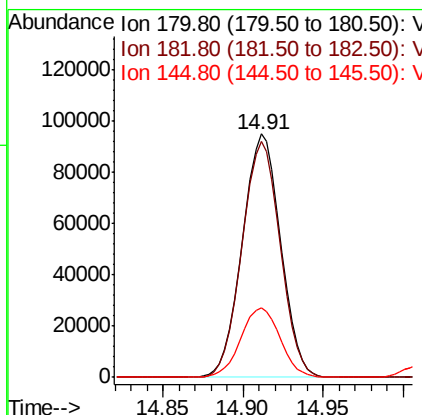
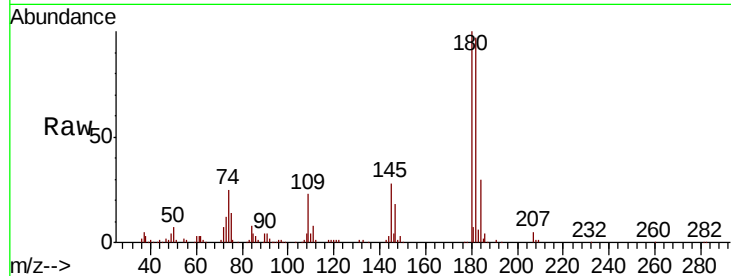
#93
 1,2,4-Trichlorobenzene
 Concen: 20.63 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. -0.00 min
 Lab File: VN050377.D
 Acq: 6 Aug 2018 12:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
180	100	155420		
182	96.6	46.7	140.1	
145	29.1	13.8	41.4	

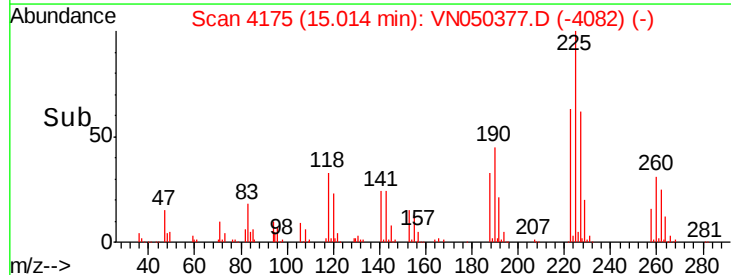
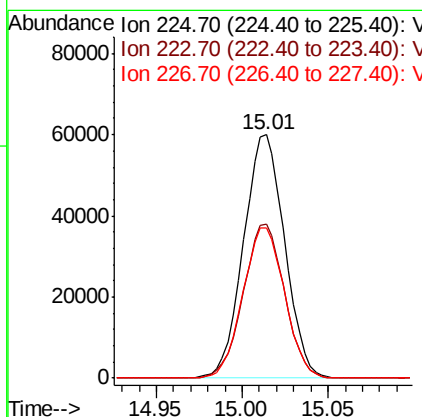
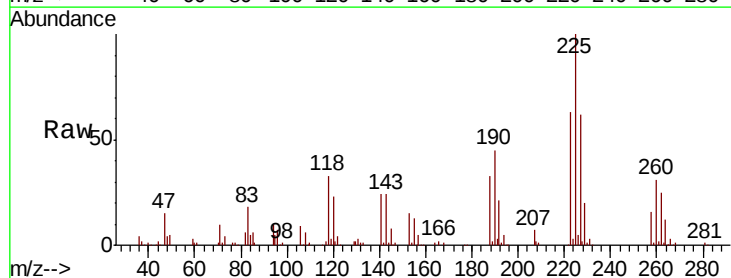
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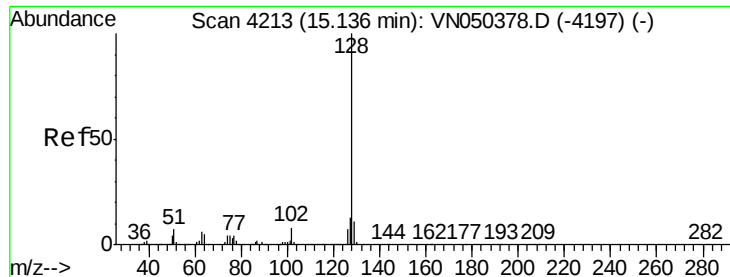
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#94
 Hexachlorobutadiene
 Concen: 19.03 ug/l
 RT: 15.01 min Scan# 4175
 Delta R.T. -0.00 min
 Lab File: VN050377.D
 Acq: 6 Aug 2018 12:00

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	99457		
223	63.5	31.4	94.2	
227	62.8	32.1	96.5	





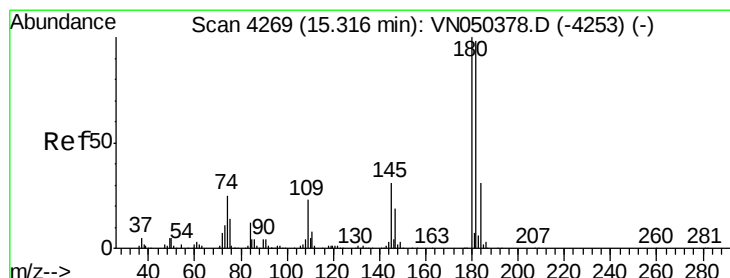
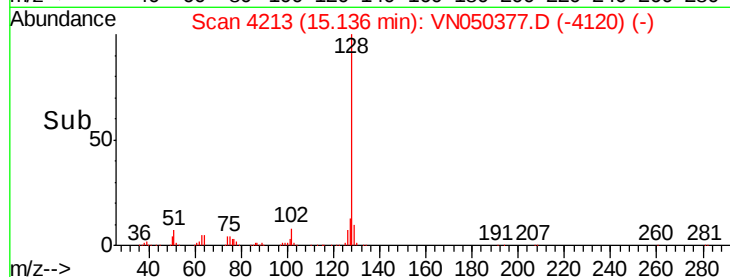
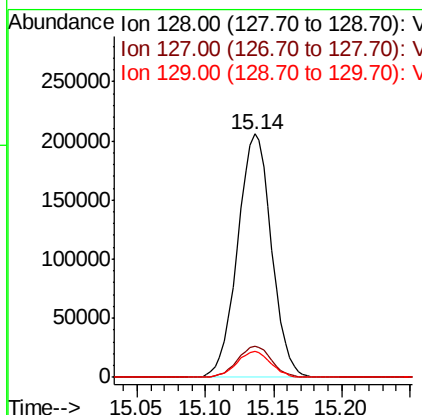
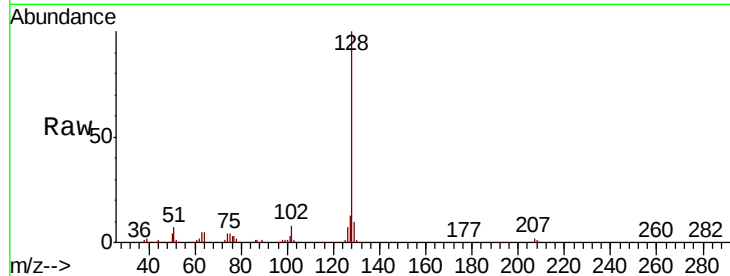
#95
Naphthalene
Concen: 20.81 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. -0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	10.7	8.8	13.2

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#96
1,2,3-Trichlorobenzene
Concen: 20.33 ug/l
RT: 15.32 min Scan# 4269
Delta R.T. -0.00 min
Lab File: VN050377.D
Acq: 6 Aug 2018 12:00

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.7	48.1	144.4
145	30.4	15.3	45.9

