

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022020\
 Data File : VN060165.D
 Acq On : 20 Feb 2020 12:07
 Operator : JC/MD
 Sample : VN0220MBS01
 Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0220MBS01

Manual Integrations
 APPROVED

MMDadoda
 2/21/2020 9:14:38 AM

Quant Time: Feb 21 02:46:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 12 14:12:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	182898	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	286012	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	265929	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	126723	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	108881	48.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.84%	
35) Dibromofluoromethane	7.56	113	83784	47.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.32%	
50) Toluene-d8	10.08	98	326037	47.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.18%	
62) 4-Bromofluorobenzene	12.40	95	115641	45.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.92%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	33551	18.352	ug/l	98
3) Chloromethane	2.04	50	38990	17.921	ug/l	96
4) Vinyl Chloride	2.17	62	44463	17.930	ug/l	97
5) Bromomethane	2.55	94	28164	18.522	ug/l	96
6) Chloroethane	2.69	64	23017	18.351	ug/l	96
7) Trichlorofluoromethane	3.00	101	58421	18.272	ug/l	100
8) Diethyl Ether	3.38	74	20988	19.720	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.74	101	33534	18.892	ug/l	96
10) Methyl Iodide	3.93	142	43114	19.663	ug/l	98
11) Tert butyl alcohol	4.73	59	31671	95.096	ug/l	100
12) 1,1-Dichloroethene	3.72	96	31545	18.242	ug/l	96
13) Acrolein	3.58	56	25657	77.939	ug/l	93
14) Allyl chloride	4.29	41	46345	18.209	ug/l	96
15) Acrylonitrile	4.94	53	81124	99.742	ug/l	98
16) Acetone	3.78	43	79281	81.668	ug/l	97
17) Carbon Disulfide	4.03	76	89367	17.146	ug/l	100
18) Methyl Acetate	4.29	43	36765	20.161	ug/l	98
19) Methyl tert-butyl Ether	5.00	73	110371	18.979	ug/l	99
20) Methylene Chloride	4.52	84	36427	18.808	ug/l	97
21) trans-1,2-Dichloroethene	5.01	96	34742	18.431	ug/l	99
22) Diisopropyl ether	5.91	45	108090	19.378	ug/l	97
23) Vinyl Acetate	5.86	43	448303	95.705	ug/l	100
24) 1,1-Dichloroethane	5.82	63	63666	18.841	ug/l	98
25) 2-Butanone	6.80	43	109734	89.878	ug/l	98
26) 2,2-Dichloropropane	6.79	77	57389	17.881	ug/l	97
27) cis-1,2-Dichloroethene	6.80	96	40617	18.412	ug/l	99
28) Bromochloromethane	7.17	49	24844	18.702	ug/l	98
29) Tetrahydrofuran	7.18	42	71180	95.032	ug/l	98
30) Chloroform	7.35	83	66629	18.824	ug/l	97
31) Cyclohexane	7.63	56	58010	18.429	ug/l	98
32) 1,1,1-Trichloroethane	7.54	97	59695	18.455	ug/l	99
36) 1,1-Dichloropropene	7.77	75	48578	18.337	ug/l	98
37) Ethyl Acetate	6.89	43	44915	18.760	ug/l	98
38) Carbon Tetrachloride	7.75	117	52275	18.169	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022020\
 Data File : VN060165.D
 Acq On : 20 Feb 2020 12:07
 Operator : JC/MD
 Sample : VN0220MBS01
 Misc : 5.00µg/10µL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0220MBS01

Manual Integrations
 APPROVED

MMDadoda
 2/21/2020 9:14:38 AM

Quant Time: Feb 21 02:46:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 12 14:12:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.06	83	59196	18.001	ug/l	99
40) Benzene	8.02	78	145997	18.578	ug/l	99
41) Methacrylonitrile	7.15	41	19041m	18.964	ug/l	
42) 1,2-Dichloroethane	8.10	62	53442	19.403	ug/l	99
43) Isopropyl Acetate	8.14	43	78456	19.170	ug/l #	92
44) Trichloroethene	8.82	130	40469	18.598	ug/l	99
45) 1,2-Dichloropropane	9.10	63	38403	19.739	ug/l	96
46) Dibromomethane	9.19	93	26360	19.173	ug/l	99
47) Bromodichloromethane	9.38	83	52590	18.814	ug/l	94
48) Methyl methacrylate	9.18	41	33382	18.179	ug/l	98
49) 1,4-Dioxane	9.18	88	12512	398.794	ug/l	99
51) 4-Methyl-2-Pentanone	9.97	43	226548	95.632	ug/l	98
52) Toluene	10.14	92	92989	18.453	ug/l	99
53) t-1,3-Dichloropropene	10.37	75	59213	18.767	ug/l	98
54) cis-1,3-Dichloropropene	9.82	75	62332	18.761	ug/l	100
55) 1,1,2-Trichloroethane	10.55	97	37228	18.936	ug/l	99
56) Ethyl methacrylate	10.42	69	52957	19.042	ug/l	99
57) 1,3-Dichloropropane	10.70	76	61803	19.052	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.68	63	123286	95.155	ug/l	99
59) 2-Hexanone	10.74	43	166755	91.125	ug/l	98
60) Dibromochloromethane	10.89	129	41889	18.567	ug/l	99
61) 1,2-Dibromoethane	10.99	107	38357	18.612	ug/l	98
64) Tetrachloroethene	10.62	164	37522	18.561	ug/l	98
65) Chlorobenzene	11.43	112	100781	18.602	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.50	131	38359	18.716	ug/l	98
67) Ethyl Benzene	11.50	91	178961	18.314	ug/l	98
68) m/p-Xylenes	11.61	106	133721	36.462	ug/l	100
69) o-Xylene	11.94	106	65533	18.559	ug/l	100
70) Styrene	11.96	104	103328	18.146	ug/l	99
71) Bromoform	12.12	173	30606	18.566	ug/l #	97
73) Isopropylbenzene	12.24	105	176410	18.642	ug/l	100
74) N-amyl acetate	12.06	43	66060	19.359	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	53335	19.581	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	47468m	19.579	ug/l	
77) Bromobenzene	12.52	156	44452	18.928	ug/l	99
78) n-propylbenzene	12.59	91	199629	18.516	ug/l	100
79) 2-Chlorotoluene	12.67	91	117415	18.528	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	147580	18.757	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.29	75	18699	18.884	ug/l	97
82) 4-Chlorotoluene	12.77	91	121336	18.663	ug/l	99
83) tert-Butylbenzene	12.99	119	128029	18.394	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	146779	18.898	ug/l	99
85) sec-Butylbenzene	13.17	105	168648	18.296	ug/l	100
86) p-Isopropyltoluene	13.28	119	156052	18.685	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	78358	18.850	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	77288	18.596	ug/l	98
89) n-Butylbenzene	13.61	91	134637	18.328	ug/l	99
90) Hexachloroethane	13.87	117	28720	18.407	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	76204	18.732	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.26	75	11061	18.614	ug/l	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022020\
Data File : VN060165.D
Acq On : 20 Feb 2020 12:07
Operator : JC/MD
Sample : VN0220MBS01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0220MBS01

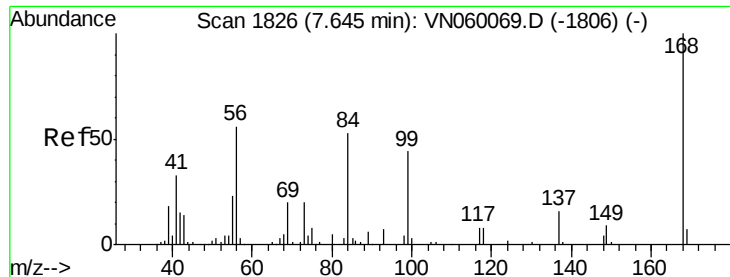
Manual Integrations
APPROVED

MMDadoda
2/21/2020 9:14:38 AM

Quant Time: Feb 21 02:46:20 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 12 14:12:21 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	45506	19.037	ug/l	98
94) Hexachlorobutadiene	15.01	225	25483	18.210	ug/l	98
95) Naphthalene	15.13	128	120528	18.666	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	44935	18.877	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060165.D

Acq: 20 Feb 2020 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0220MBS01

Tot Ion:168 Resp: 182898

Ion Ratio Lower Upper

168 100

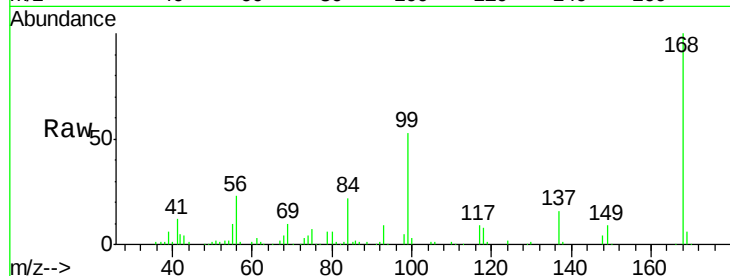
99 53.0 42.7 64.1

Manual Integrations

APPROVED

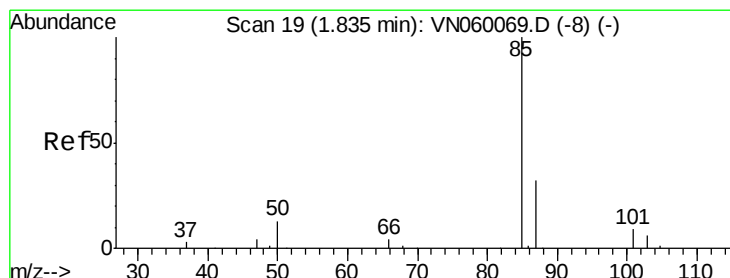
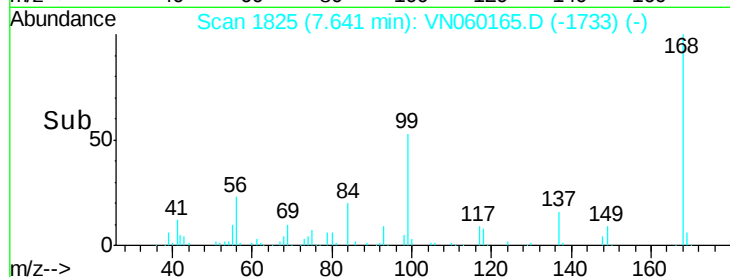
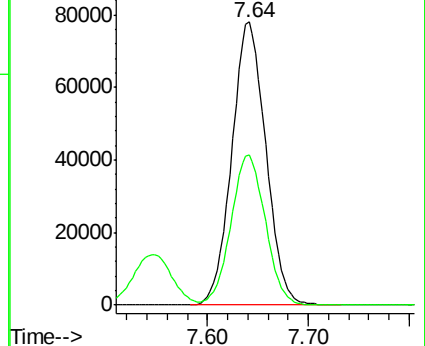
MMDadoda

2/21/2020 9:14:38 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 18.352 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN060165.D

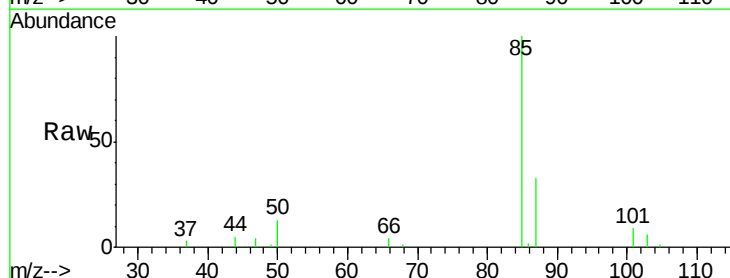
Acq: 20 Feb 2020 12:07

Tgt Ion: 85 Resp: 33551

Ion Ratio Lower Upper

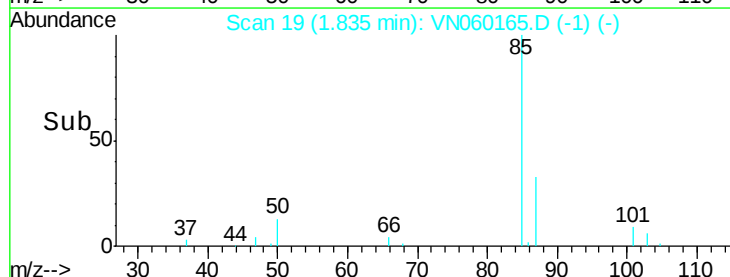
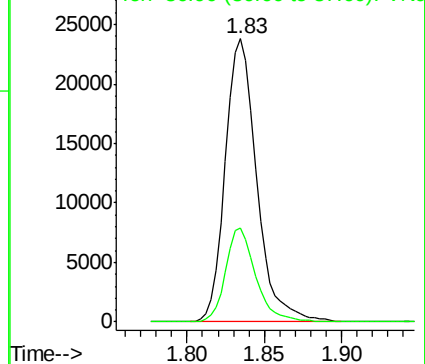
85 100

87 33.3 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 17.921 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN060165.D

Acq: 20 Feb 2020 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0220MBS01

Tot Ion: 50 Resp: 38990

Ion Ratio Lower Upper

50 100

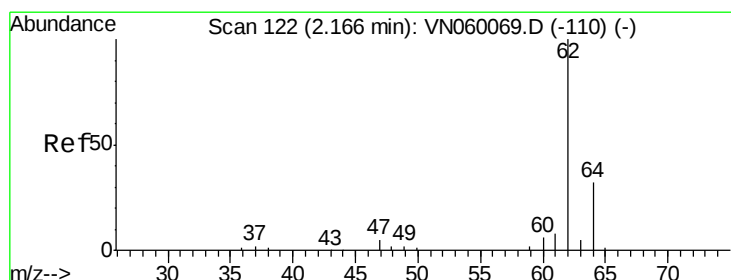
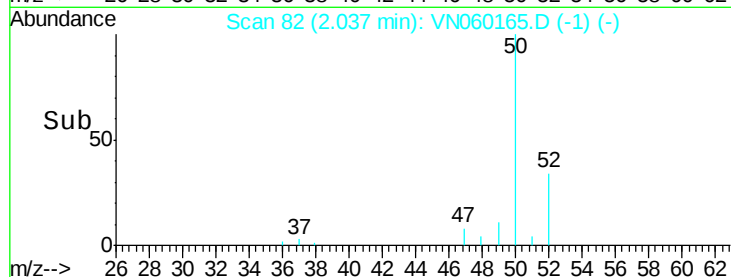
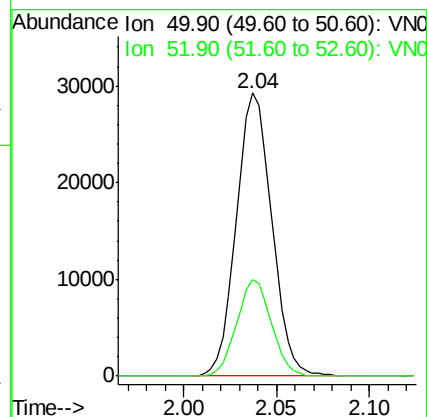
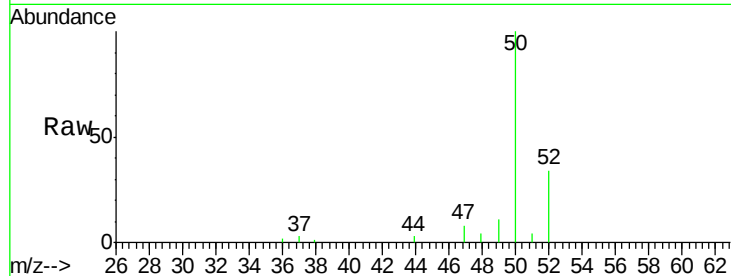
52 34.0 25.6 38.4

Manual Integrations

APPROVED

MMDadoda

2/21/2020 9:14:38 AM



#4

Vinyl Chloride

Concen: 17.930 ug/l

RT: 2.17 min Scan# 122

Delta R.T. 0.00 min

Lab File: VN060165.D

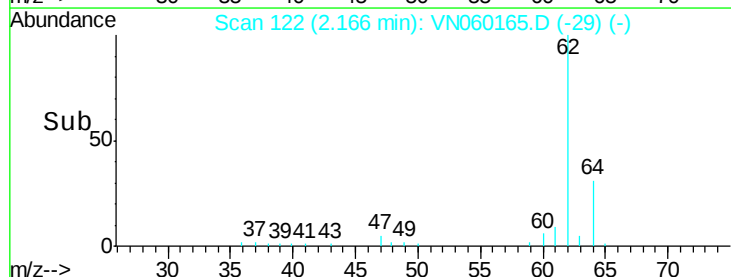
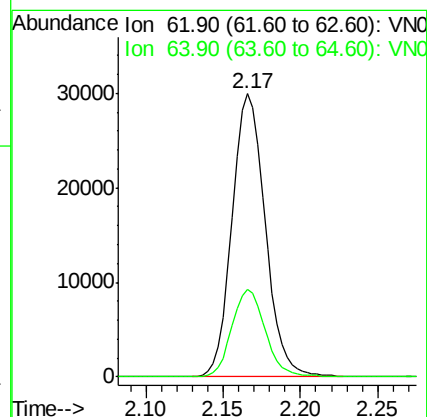
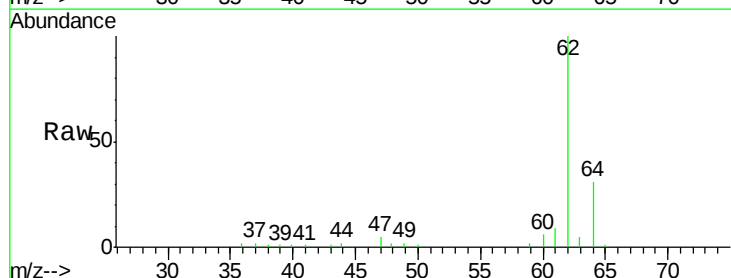
Acq: 20 Feb 2020 12:07

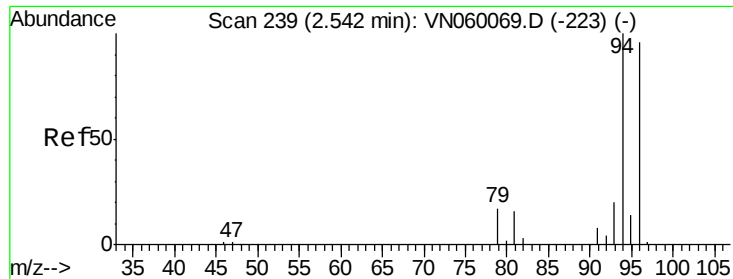
Tgt Ion: 62 Resp: 44463

Ion Ratio Lower Upper

62 100

64 30.8 25.9 38.9





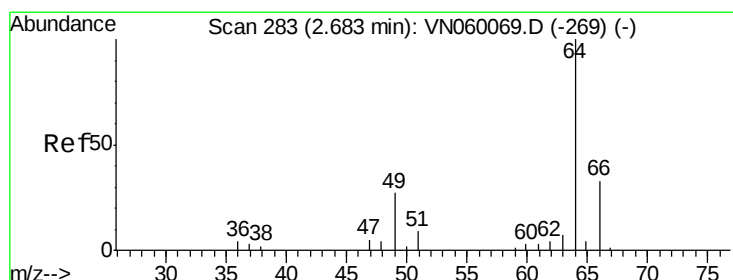
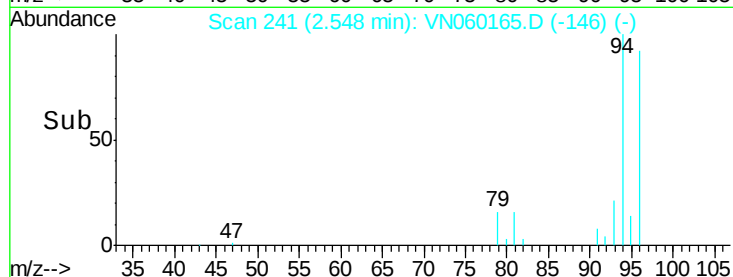
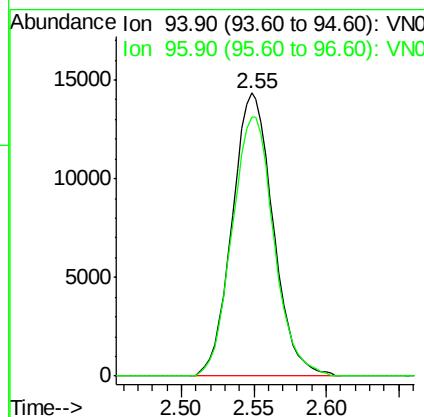
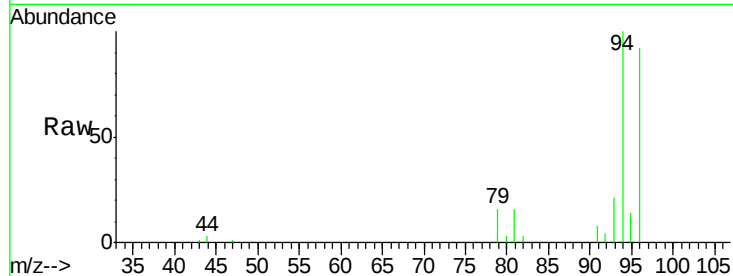
#5
Bromomethane
Concen: 18.522 ug/l
RT: 2.55 min Scan# 241
Delta R.T. 0.01 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0220MBS01

Tot Ion: 94 Resp: 28164
Ion Ratio Lower Upper
94 100
96 91.7 76.7 115.1

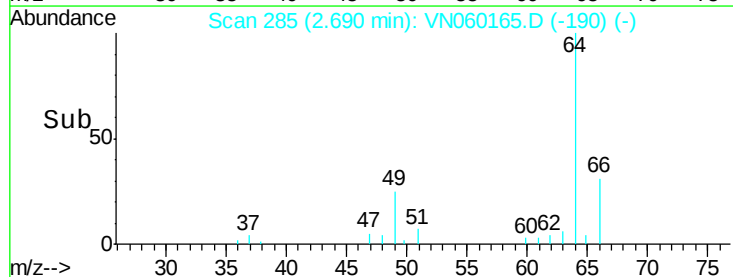
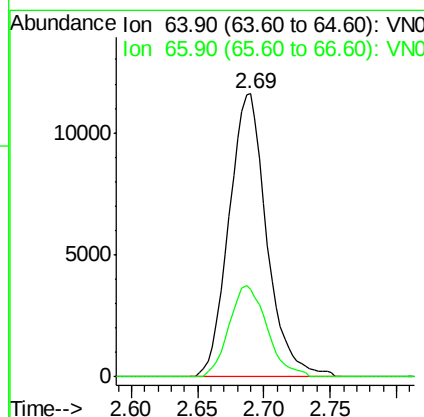
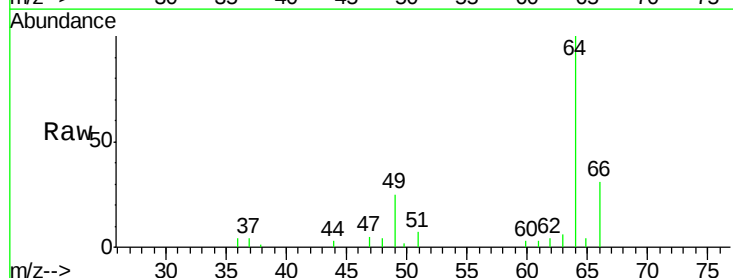
Manual Integrations
APPROVED

MMDadoda
2/21/2020 9:14:38 AM



#6
Chloroethane
Concen: 18.351 ug/l
RT: 2.69 min Scan# 285
Delta R.T. 0.01 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Tgt Ion: 64 Resp: 23017
Ion Ratio Lower Upper
64 100
66 31.0 26.6 40.0





#7

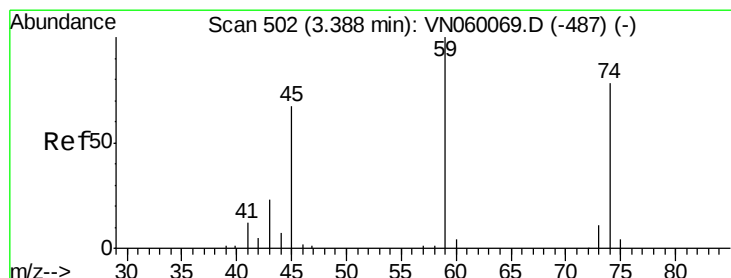
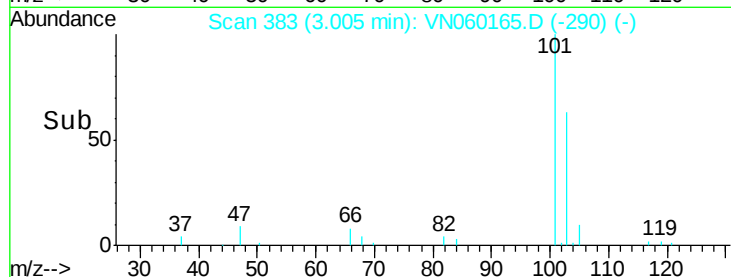
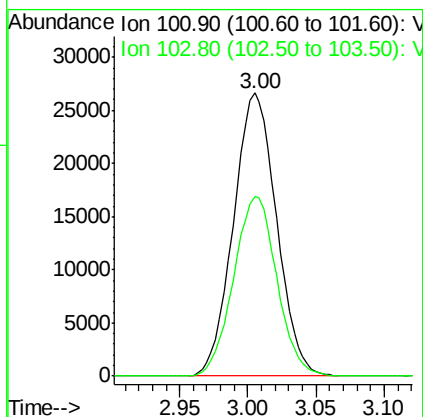
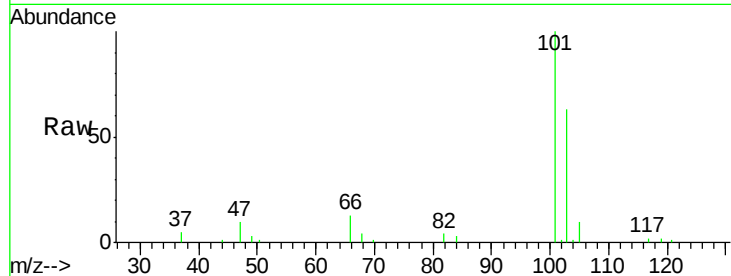
Trichlorofluoromethane
Concen: 18.272 ug/l
RT: 3.00 min Scan# 383
Delta R.T. 0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0220MBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		58421		
103	63.5	51.0	76.6		

Manual Integrations
APPROVED

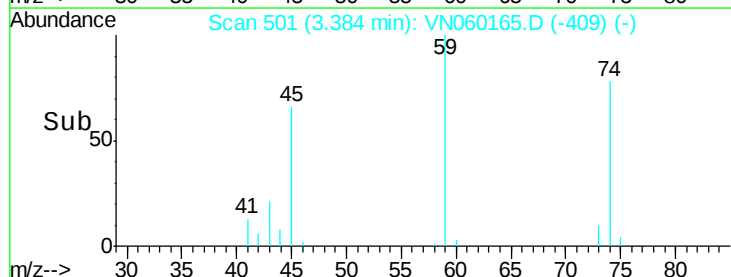
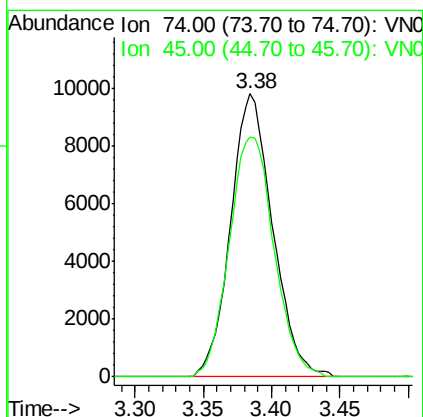
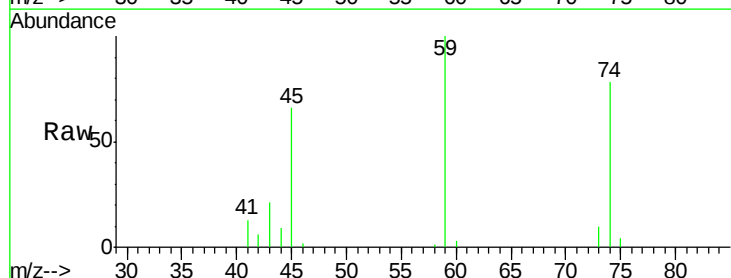
MMDadoda
2/21/2020 9:14:38 AM



#8

Diethyl Ether
Concen: 19.720 ug/l
RT: 3.38 min Scan# 501
Delta R.T. -0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		20988		
45	90.4	44.7	134.1		





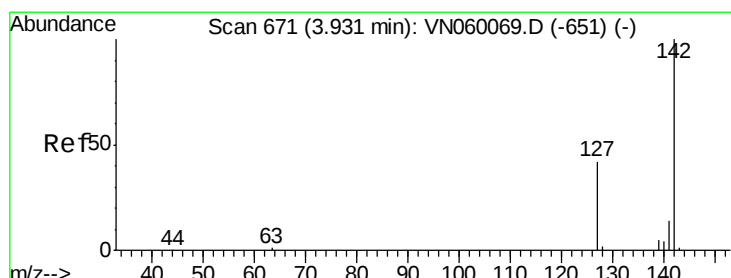
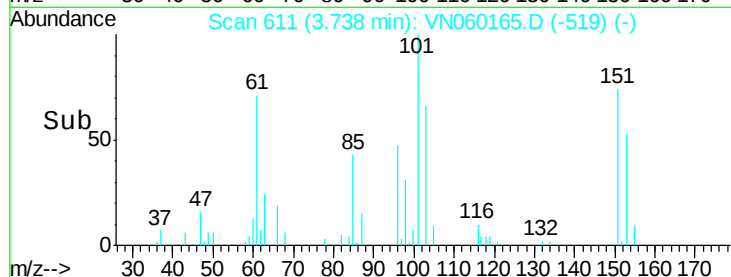
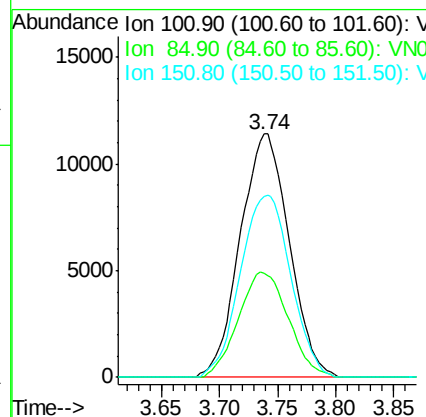
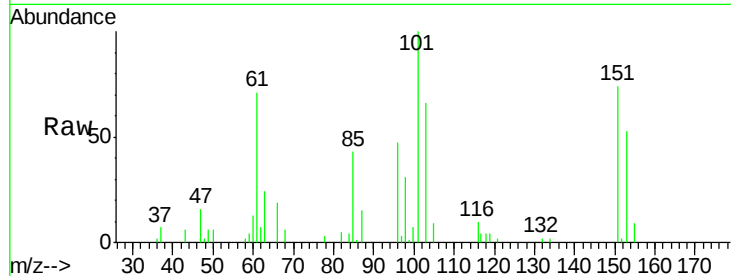
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 18.892 ug/l
 RT: 3.74 min Scan# 611
 Delta R.T. -0.00 min
 Lab File: VN060165.D
 Acq: 20 Feb 2020 12:07

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0220MBS01

Tot Ion	Ratio	Lower	Upper
101	100		
85	43.9	35.1	52.7
151	77.1	65.8	98.6

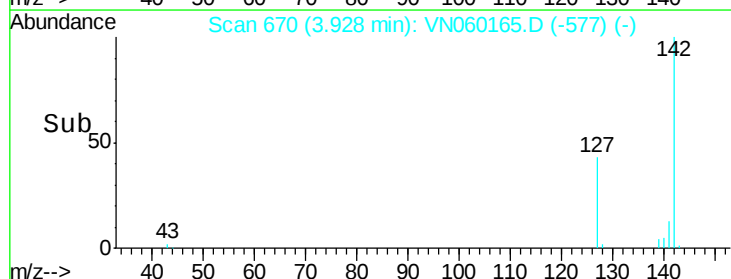
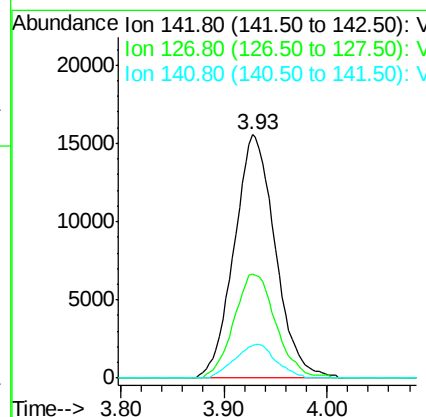
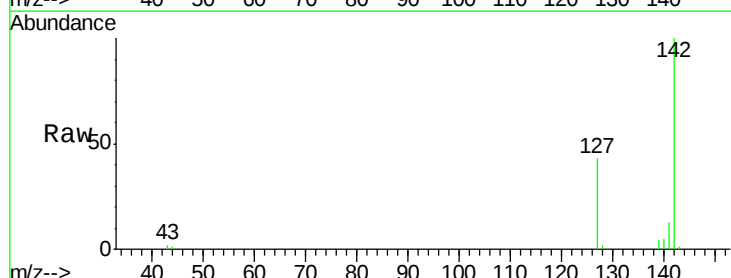
Manual Integrations
 APPROVED

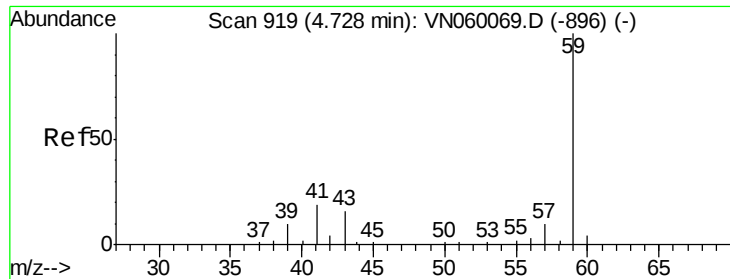
MMDadoda
 2/21/2020 9:14:38 AM



#10
 Methyl Iodide
 Concen: 19.663 ug/l
 RT: 3.93 min Scan# 670
 Delta R.T. -0.00 min
 Lab File: VN060165.D
 Acq: 20 Feb 2020 12:07

Tgt Ion	Ratio	Lower	Upper
142	100		
127	43.7	33.6	50.4
141	13.9	11.4	17.2





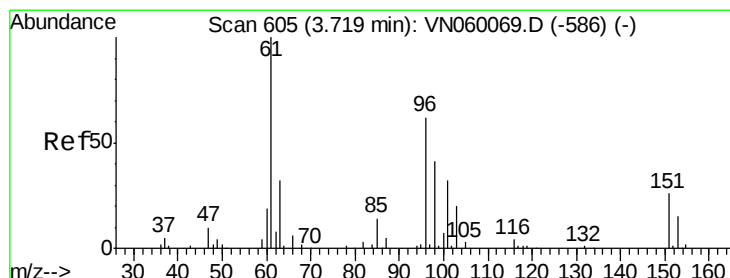
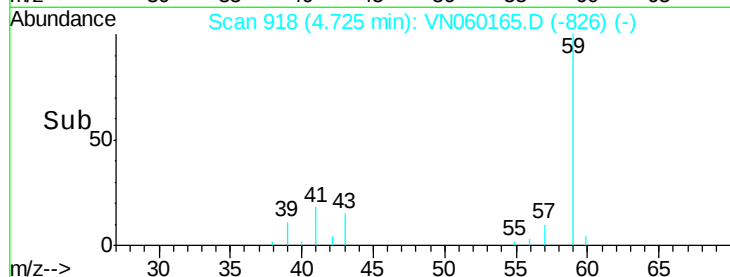
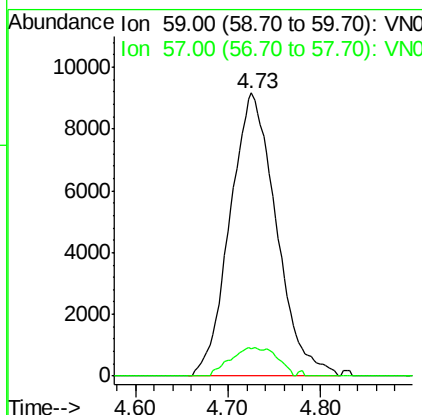
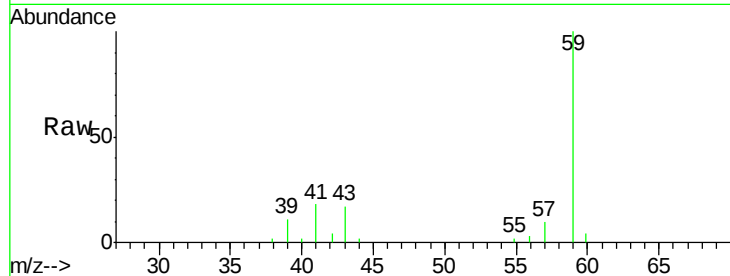
#11
Tert butyl alcohol
Concen: 95.096 ug/l
RT: 4.73 min Scan# 918
Delta R.T. -0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Instrument :
MSVOA_N
ClientSampled :
VN0220MBS01

Tot Ion: 59 Resp: 31671
Ion Ratio Lower Upper
59 100
57 10.2 8.2 12.4

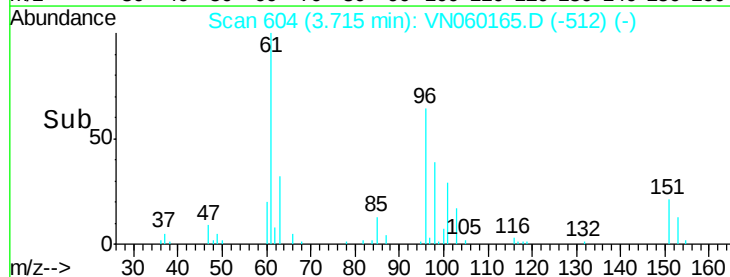
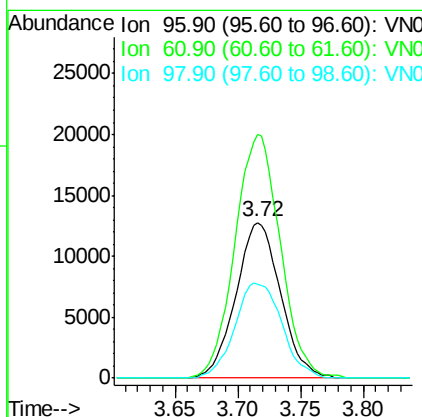
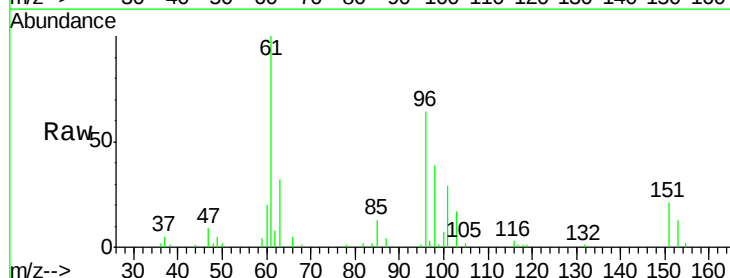
Manual Integrations
APPROVED

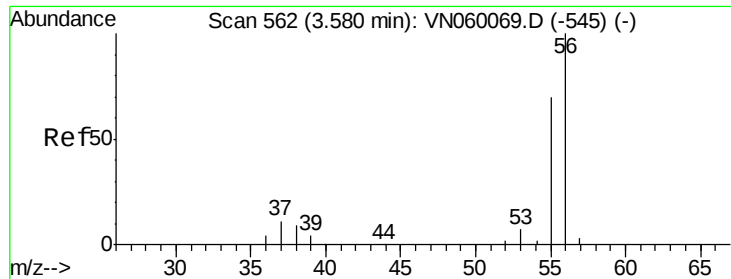
MMDadoda
2/21/2020 9:14:38 AM



#12
1,1-Dichloroethene
Concen: 18.242 ug/l
RT: 3.72 min Scan# 604
Delta R.T. -0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Tgt Ion: 96 Resp: 31545
Ion Ratio Lower Upper
96 100
61 156.8 128.3 192.5
98 60.8 52.2 78.4





#13

Acrolein

Concen: 77.939 ug/l

RT: 3.58 min Scan# 561

Delta R.T. -0.00 min

Lab File: VN060165.D

Acq: 20 Feb 2020 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0220MBS01

Tot Ion: 56 Resp: 25657

Ion Ratio Lower Upper

56 100

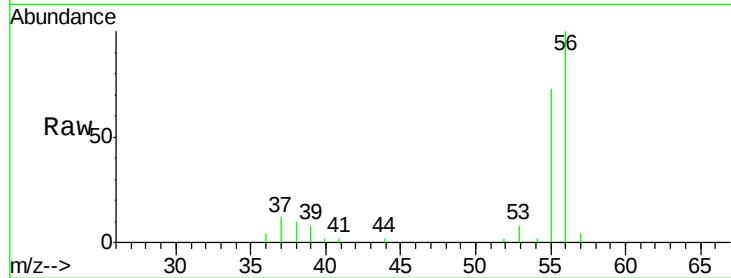
55 74.2 54.8 82.2

Manual Integrations

APPROVED

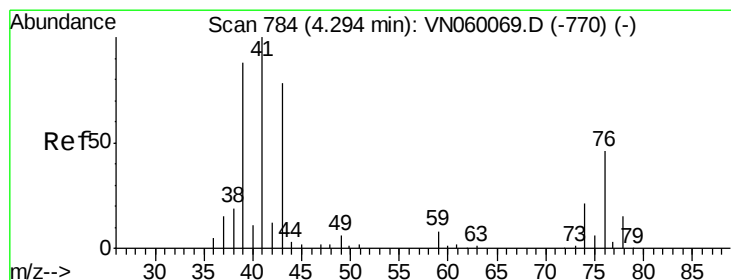
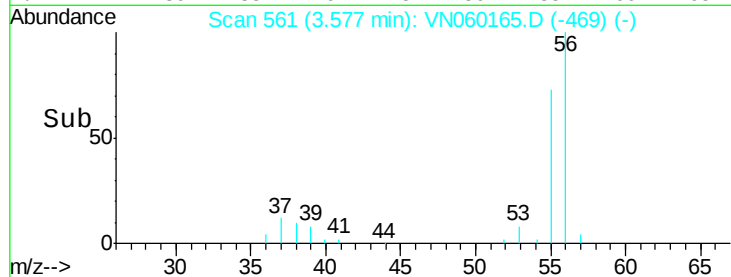
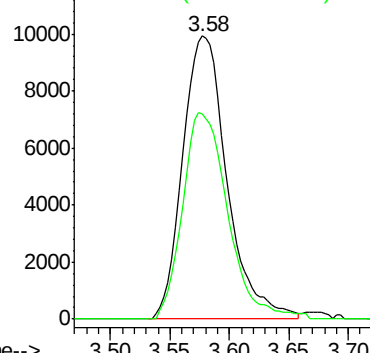
MMDadoda

2/21/2020 9:14:38 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 18.209 ug/l

RT: 4.29 min Scan# 783

Delta R.T. -0.00 min

Lab File: VN060165.D

Acq: 20 Feb 2020 12:07

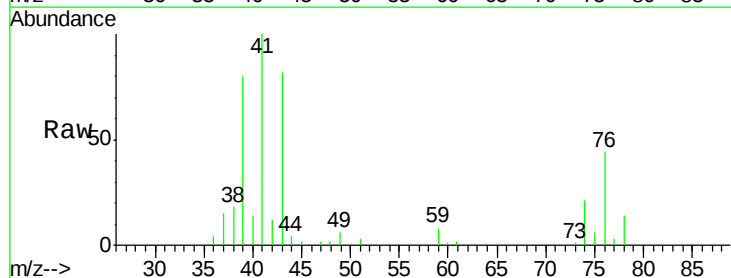
Tgt Ion: 41 Resp: 46345

Ion Ratio Lower Upper

41 100

39 80.3 67.8 101.8

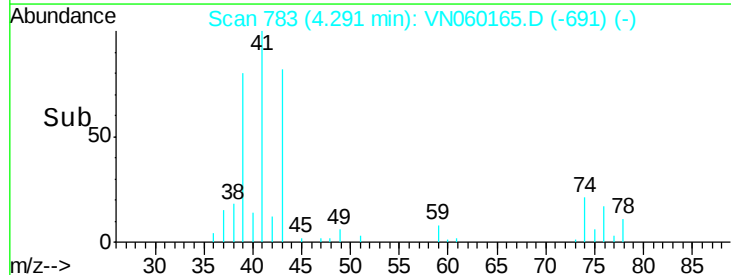
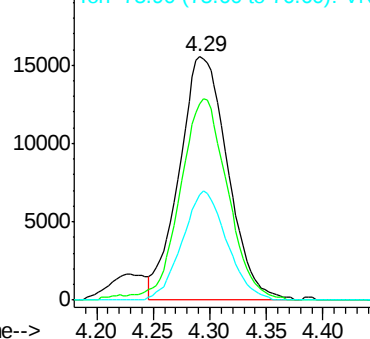
76 41.1 33.9 50.9

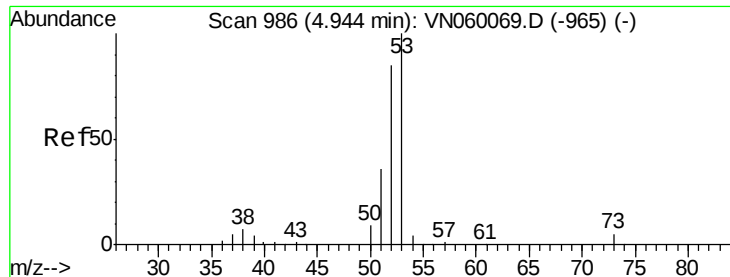


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





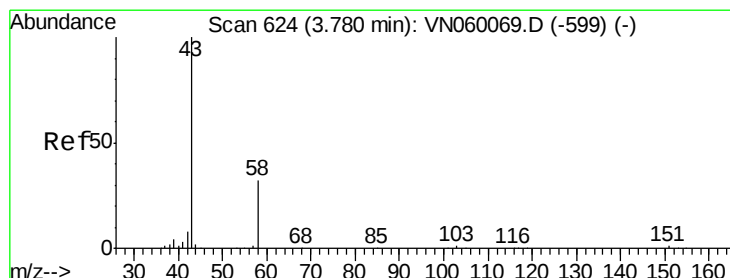
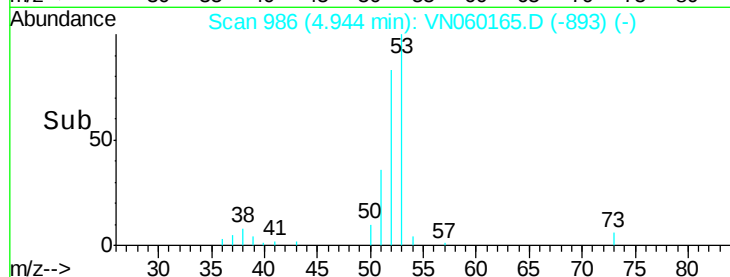
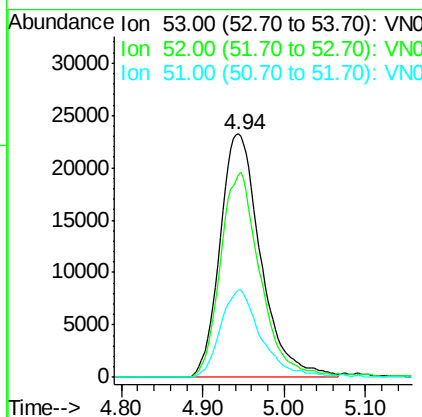
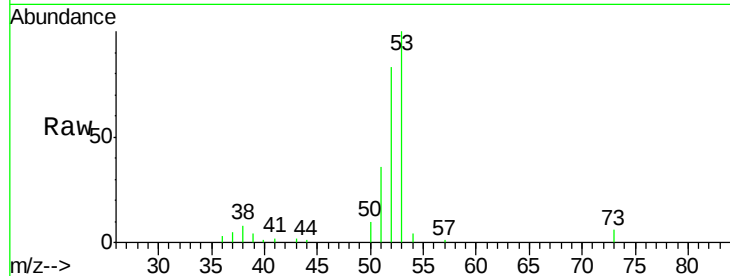
#15
 Acrylonitrile
 Concen: 99.742 ug/l
 RT: 4.94 min Scan# 986
 Delta R.T. 0.00 min
 Lab File: VN060165.D
 Acq: 20 Feb 2020 12:07

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0220MBS01

Tot Ion	53	52	51
Resp	81124		
Ratio	100	81.6	35.9
Lower		66.8	29.4
Upper		100.2	44.0

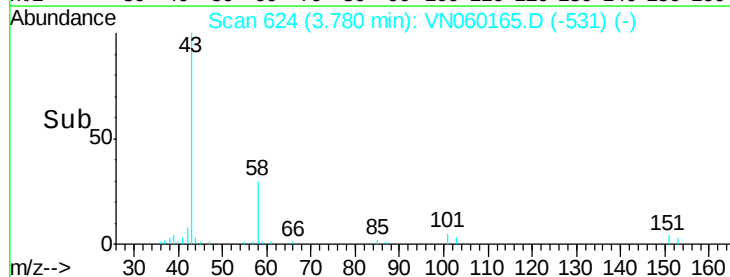
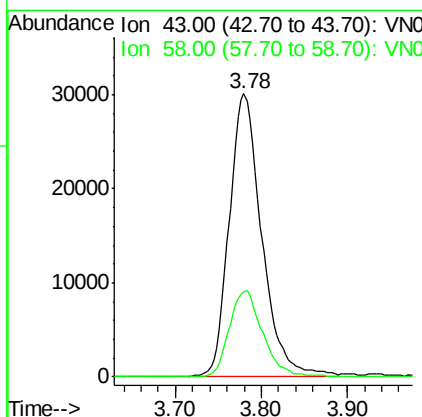
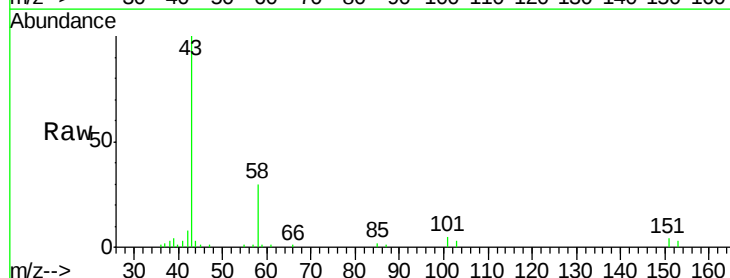
Manual Integrations
 APPROVED

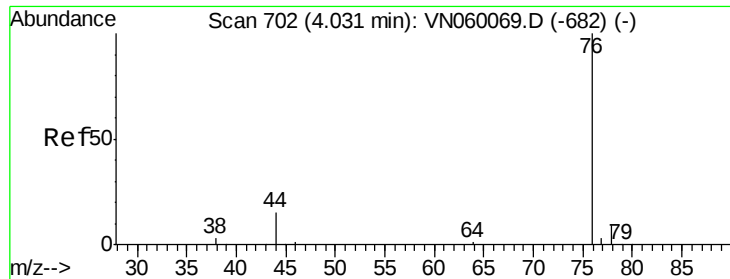
MMDadoda
 2/21/2020 9:14:38 AM



#16
 Acetone
 Concen: 81.668 ug/l
 RT: 3.78 min Scan# 624
 Delta R.T. 0.00 min
 Lab File: VN060165.D
 Acq: 20 Feb 2020 12:07

Tgt Ion	43	58
Resp	79281	
Ratio	100	30.0
Lower		25.2
Upper		37.8





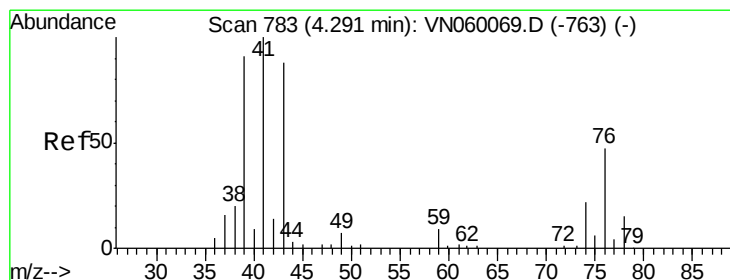
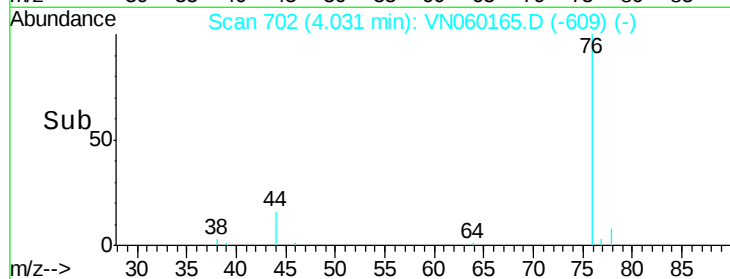
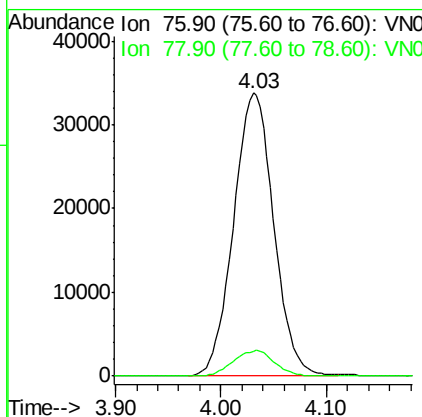
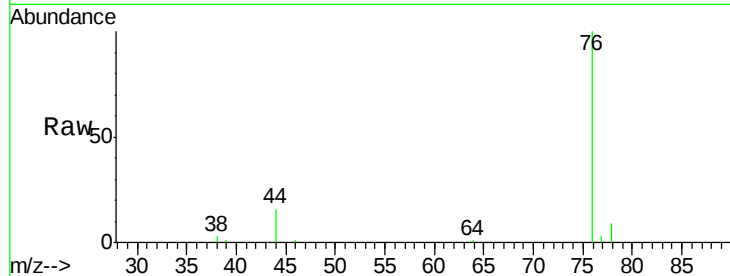
#17
Carbon Disulfide
Concen: 17.146 ug/l
RT: 4.03 min Scan# 702
Delta R.T. 0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0220MBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.0	10.6

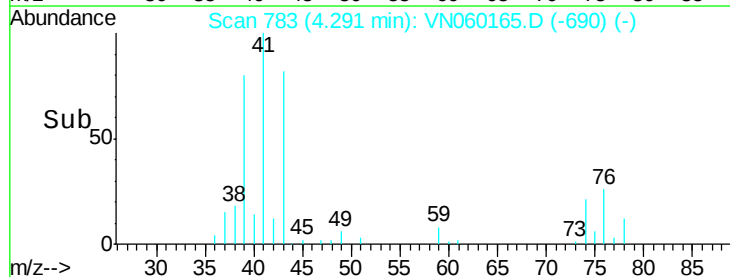
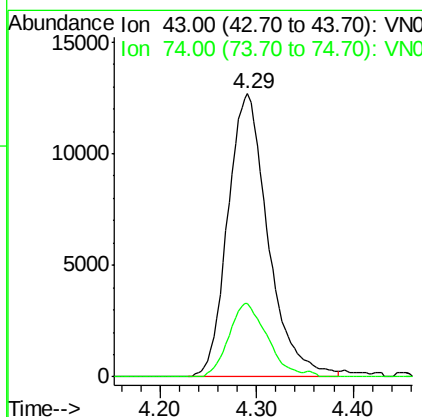
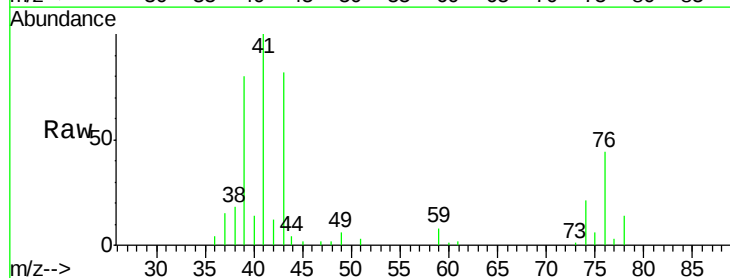
Manual Integrations
APPROVED

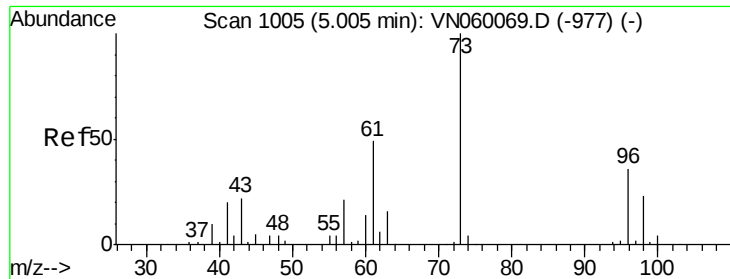
MMDadoda
2/21/2020 9:14:38 AM



#18
Methyl Acetate
Concen: 20.161 ug/l
RT: 4.29 min Scan# 783
Delta R.T. 0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.5	20.3	30.5





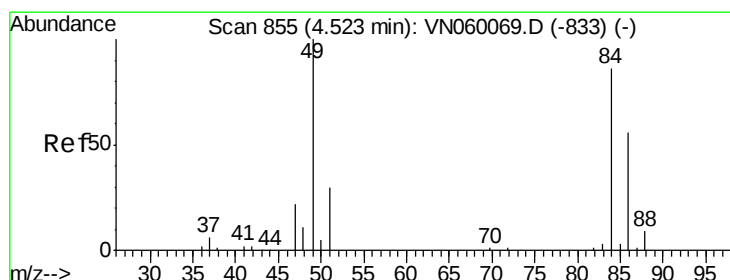
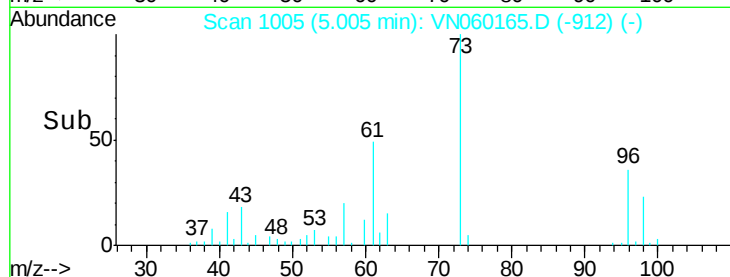
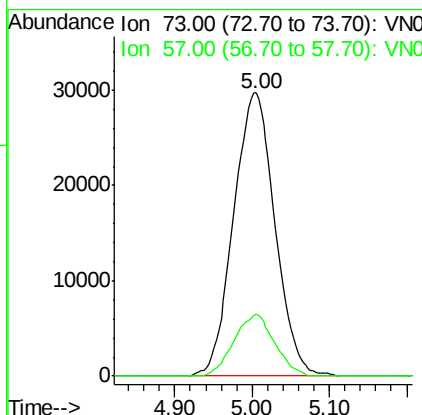
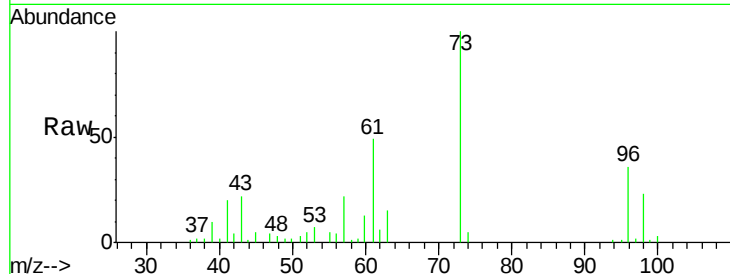
#19
Methvl tert-butvl Ether
Concen: 18.979 ug/l
RT: 5.00 min Scan# 1005
Delta R.T. 0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0220MBS01

Tot Ion: 73 Resp: 110371
Ion Ratio Lower Upper
73 100
57 21.7 17.2 25.8

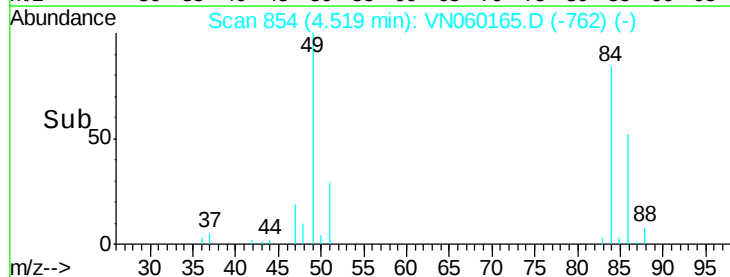
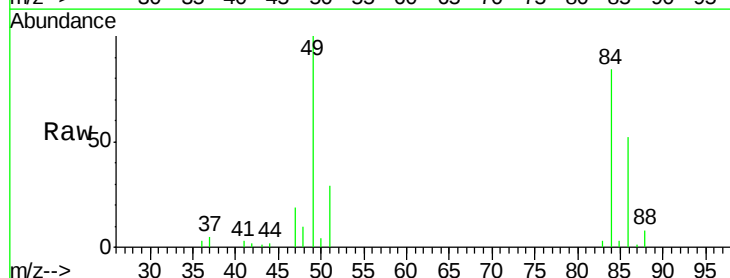
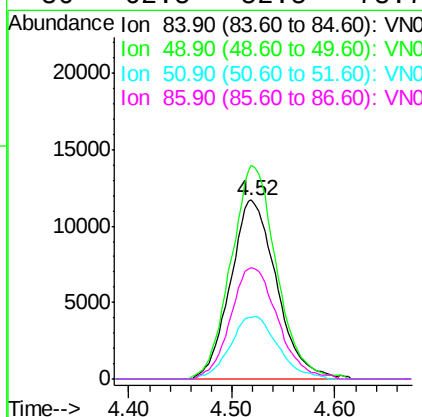
Manual Integrations
APPROVED

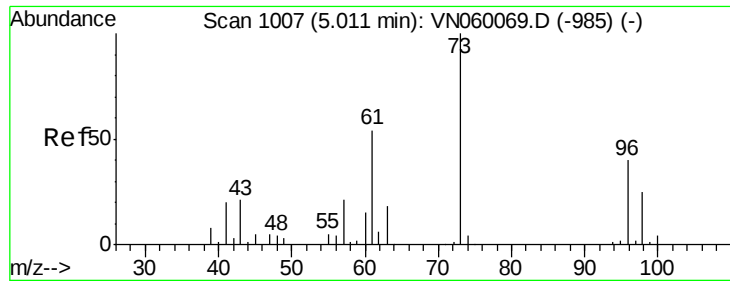
MMDadoda
2/21/2020 9:14:38 AM



#20
Methylene Chloride
Concen: 18.808 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Tgt Ion: 84 Resp: 36427
Ion Ratio Lower Upper
84 100
49 119.5 93.4 140.0
51 34.7 28.4 42.6
86 62.5 52.5 78.7





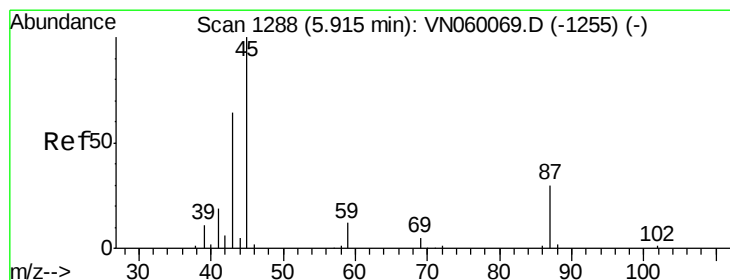
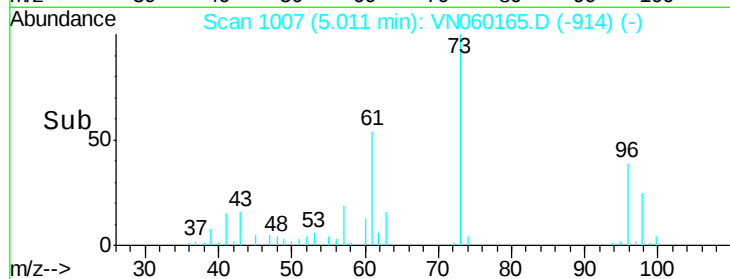
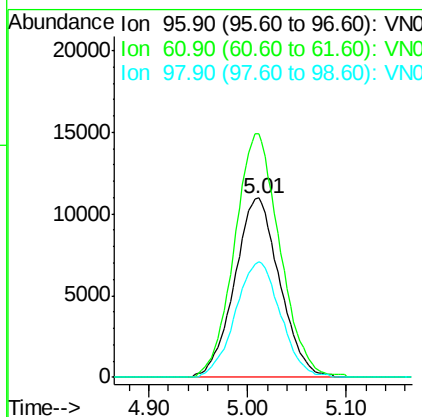
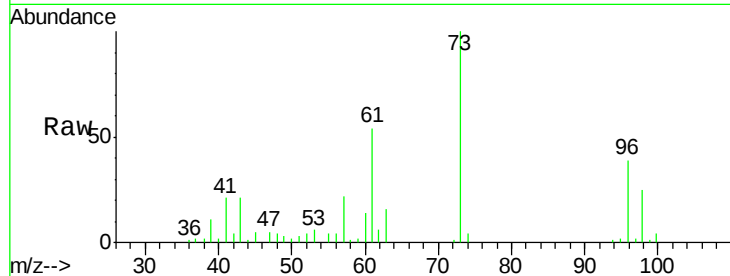
#21
trans-1,2-Dichloroethene
Concen: 18.431 ug/l
RT: 5.01 min Scan# 1007
Delta R.T. 0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0220MBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	135.9	109.3	163.9
98	64.4	51.0	76.6

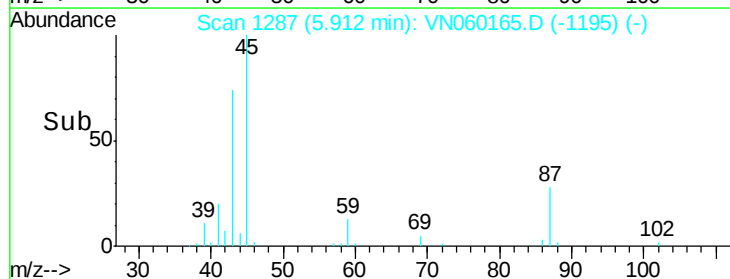
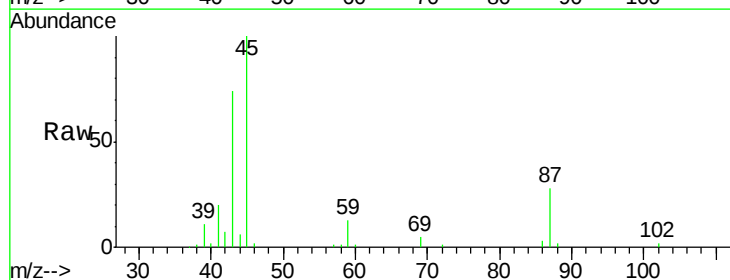
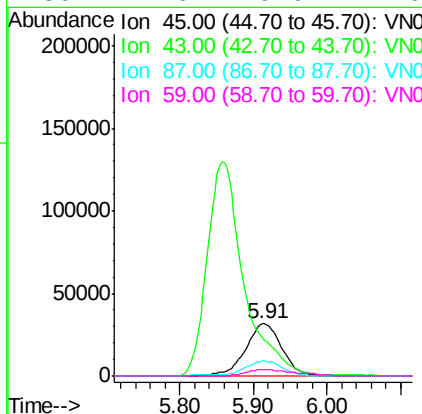
Manual Integrations
APPROVED

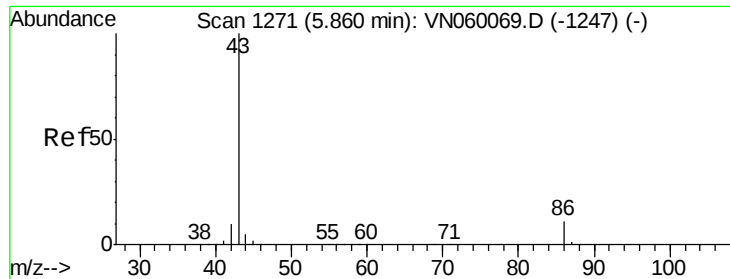
MMDadoda
2/21/2020 9:14:38 AM



#22
Diisopropyl ether
Concen: 19.378 ug/l
RT: 5.91 min Scan# 1287
Delta R.T. -0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Tgt Ion	Ratio	Lower	Upper
45	100		
43	72.3	55.9	83.9
87	28.5	24.5	36.7
59	12.6	9.9	14.9





#23

Vinyl Acetate

Concen: 95.705 ug/l

RT: 5.86 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VN060165.D

Acq: 20 Feb 2020 12:07

Instrument :

MSVOA_N

ClientSampled :

VN0220MBS01

Tot Ion: 43 Resp: 448303

Ion Ratio Lower Upper

43 100

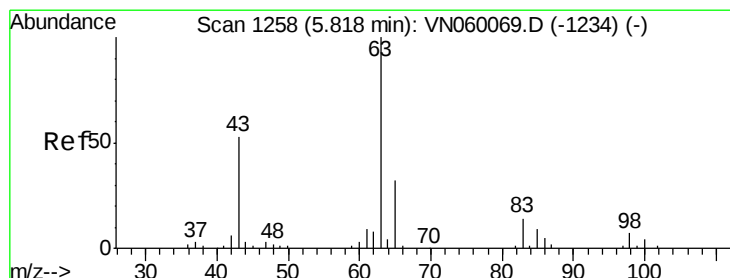
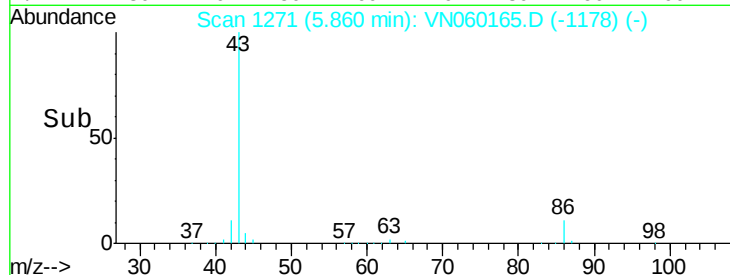
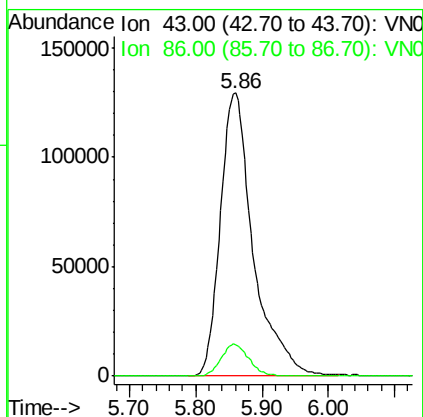
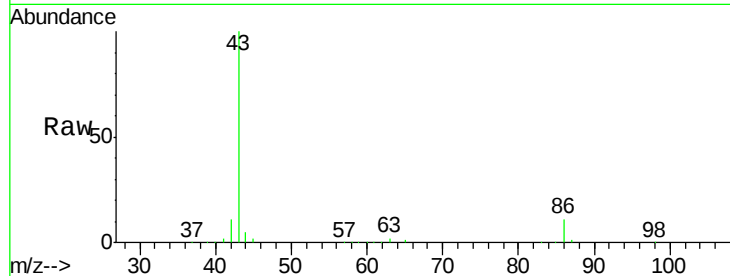
86 11.0 8.9 13.3

Manual Integrations

APPROVED

MMDadoda

2/21/2020 9:14:38 AM



#24

1,1-Dichloroethane

Concen: 18.841 ug/l

RT: 5.82 min Scan# 1257

Delta R.T. -0.00 min

Lab File: VN060165.D

Acq: 20 Feb 2020 12:07

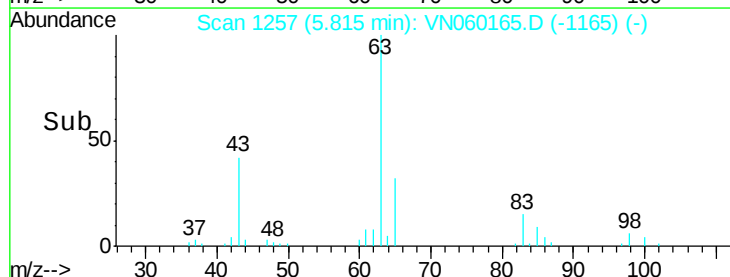
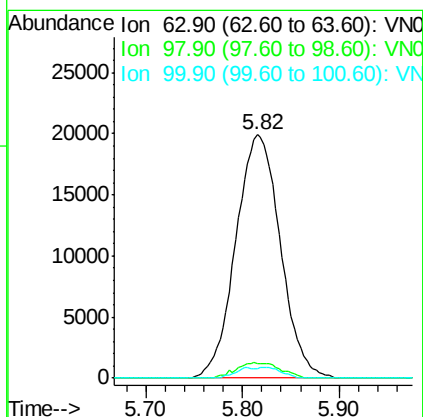
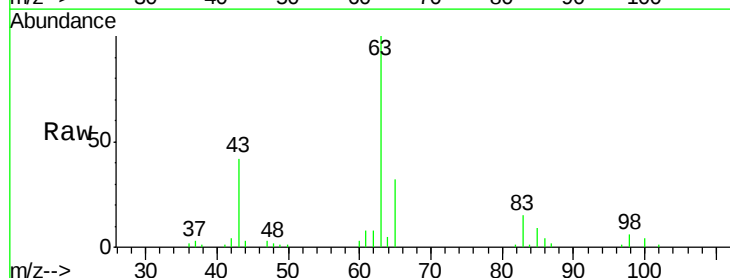
Tgt Ion: 63 Resp: 63666

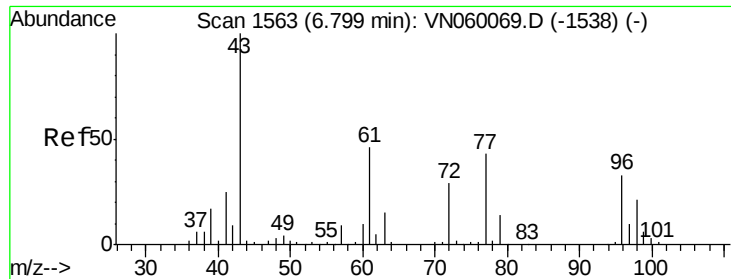
Ion Ratio Lower Upper

63 100

98 6.1 3.5 10.5

100 4.1 2.2 6.6





#25

2-Butanone

Concen: 89.878 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VN060165.D

Acq: 20 Feb 2020 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0220MBS01

Tot Ion: 43 Resp: 109734

Ion Ratio Lower Upper

43 100

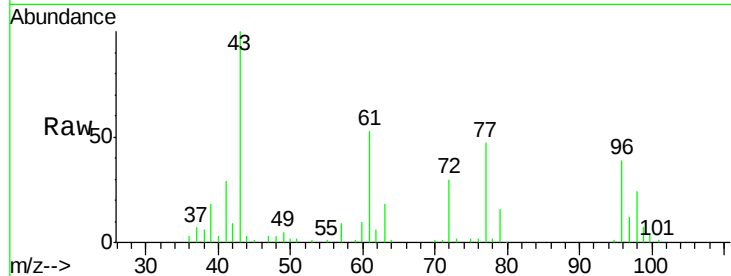
72 30.2 23.3 34.9

Manual Integrations

APPROVED

MMDadoda

2/21/2020 9:14:38 AM



Abundance Ion 43.00 (42.70 to 43.70): VN060069.D (-1538) (-)

Ion 72.00 (71.70 to 72.70): VN060069.D (-1538) (-)

6.80

40000

30000

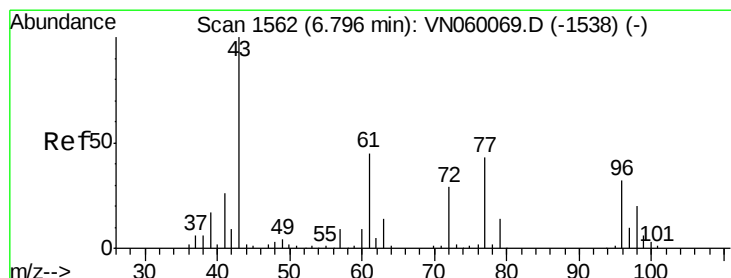
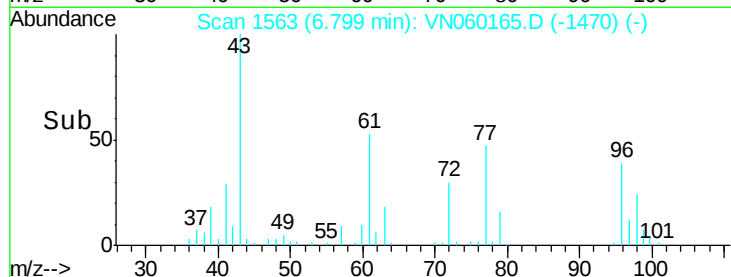
20000

10000

0

6.70 6.75 6.80 6.85

Time-->



#26

2,2-Dichloropropane

Concen: 17.881 ug/l

RT: 6.79 min Scan# 1561

Delta R.T. -0.00 min

Lab File: VN060165.D

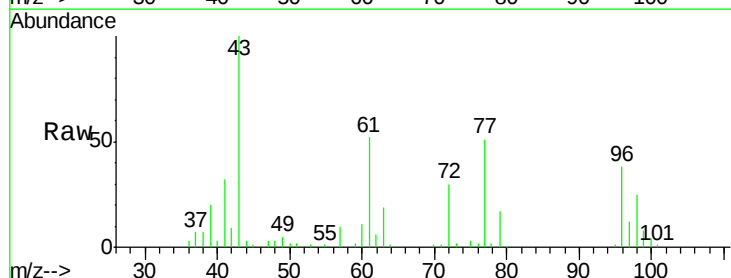
Acq: 20 Feb 2020 12:07

Tgt Ion: 77 Resp: 57389

Ion Ratio Lower Upper

77 100

97 24.1 11.4 34.2



Abundance Ion 76.90 (76.60 to 77.60): VN060069.D (-1538) (-)

Ion 96.90 (96.60 to 97.60): VN060069.D (-1538) (-)

6.79

20000

15000

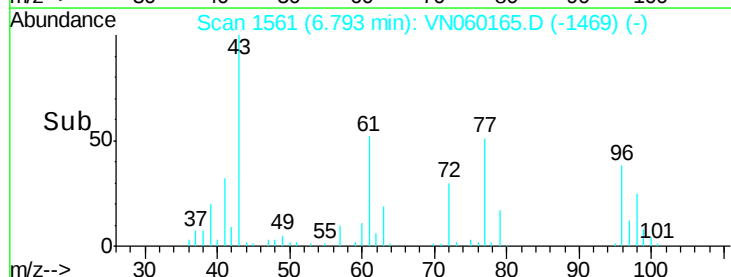
10000

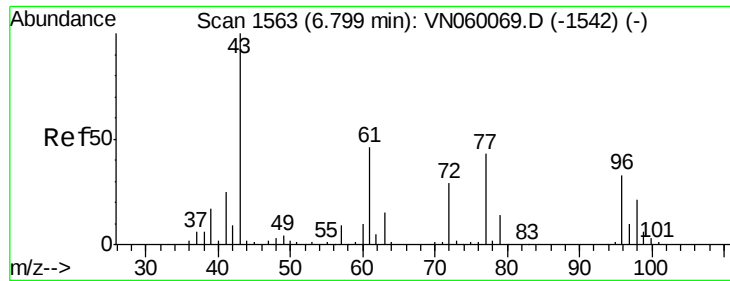
5000

0

6.70 6.80 6.90

Time-->





#27

cis-1,2-Dichloroethene

Concen: 18.412 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VN060165.D

Acq: 20 Feb 2020 12:07

Instrument :

MSVOA_N

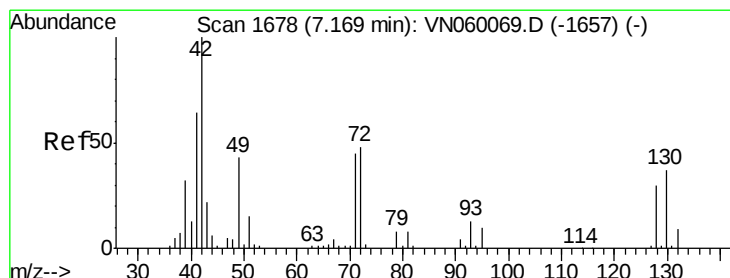
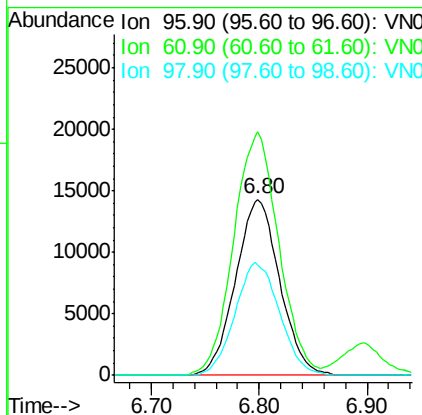
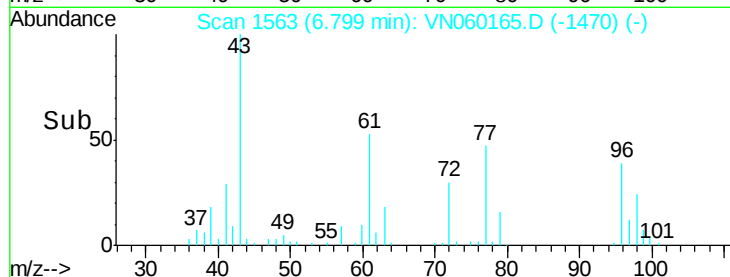
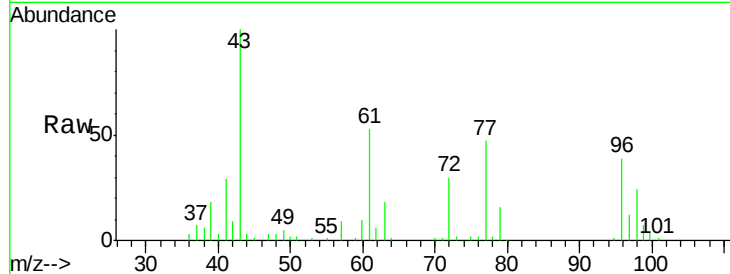
ClientSampleId :

VN0220MBS01

Tot Ion:	96	Resp:	40617
Ion	Ratio	Lower	Upper
96	100		
61	141.6	0.0	285.8
98	64.8	0.0	129.6

Manual Integrations
APPROVED

MMDadoda
2/21/2020 9:14:38 AM



#28

Bromochloromethane

Concen: 18.702 ug/l

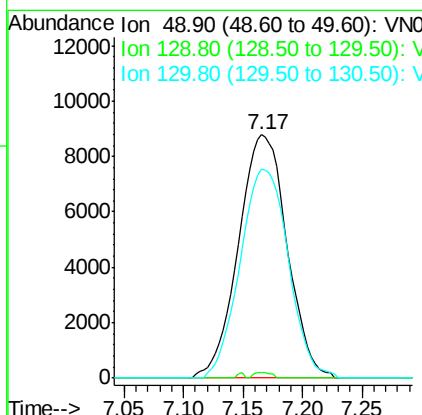
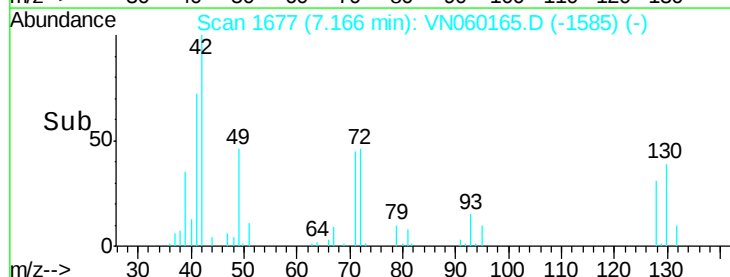
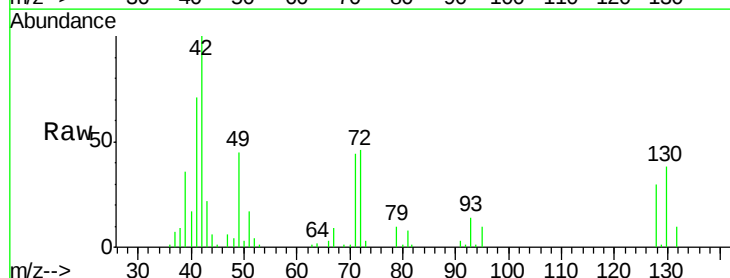
RT: 7.17 min Scan# 1677

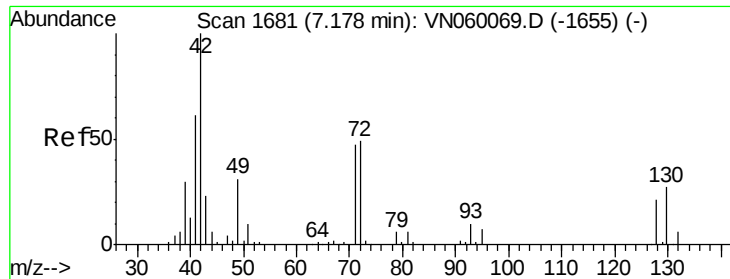
Delta R.T. -0.00 min

Lab File: VN060165.D

Acq: 20 Feb 2020 12:07

Tgt Ion:	49	Resp:	24844
Ion	Ratio	Lower	Upper
49	100		
129	0.8	0.0	2.2
130	85.5	66.8	100.2





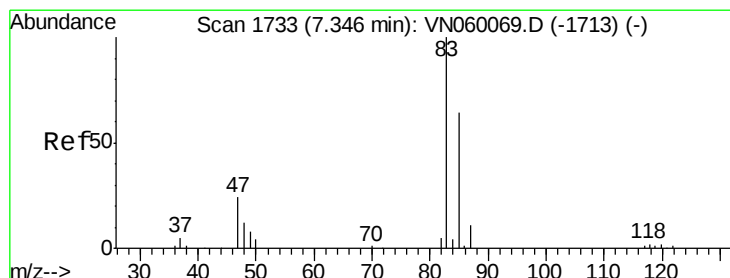
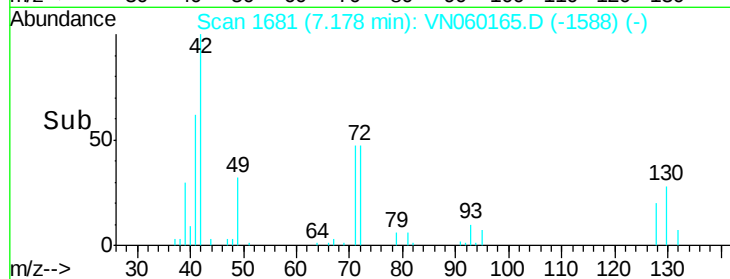
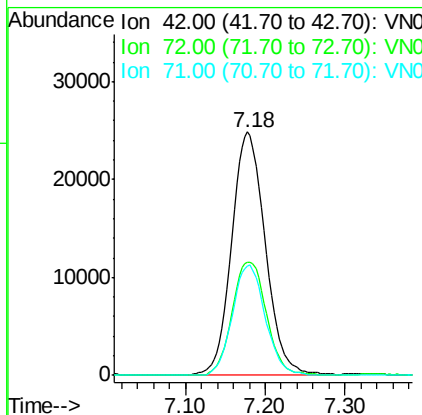
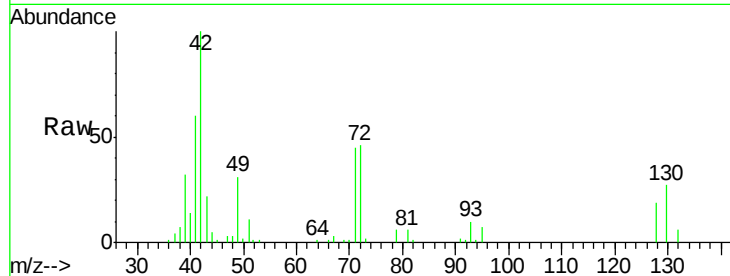
#29
Tetrahydrofuran
Concen: 95.032 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0220MBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	47.0	38.2	57.4
71	43.9	36.6	54.8

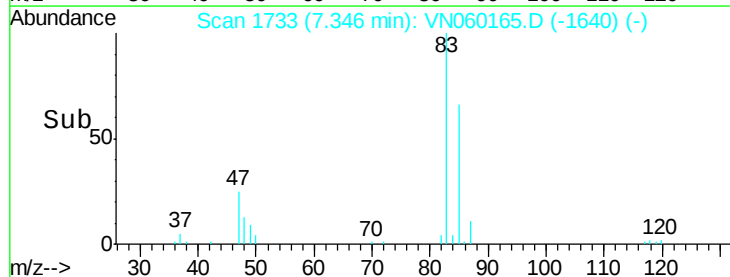
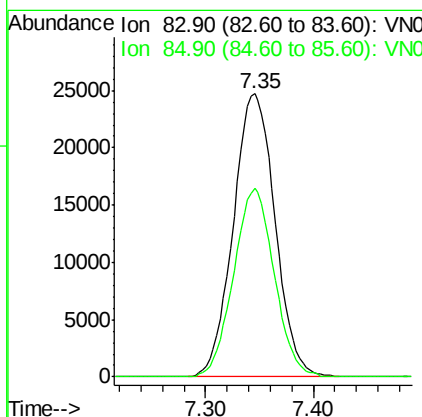
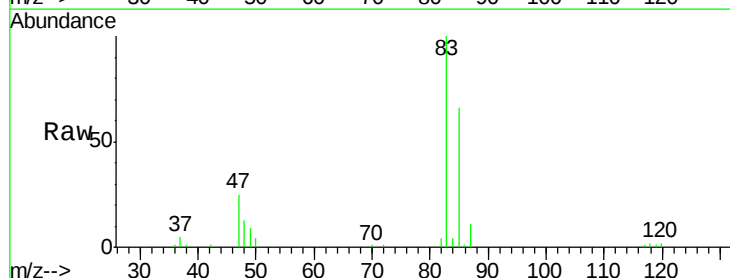
Manual Integrations
APPROVED

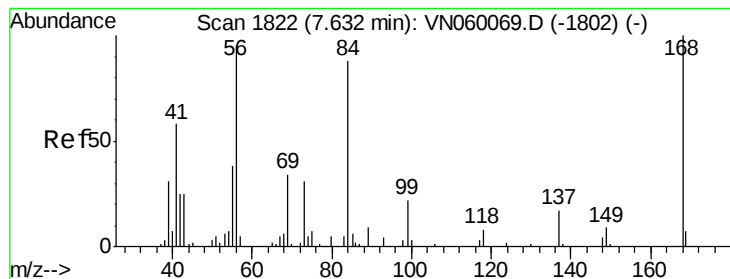
MMDadoda
2/21/2020 9:14:38 AM



#30
Chloroform
Concen: 18.824 ug/l
RT: 7.35 min Scan# 1733
Delta R.T. 0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.4	51.4	77.0





#31

Cyclohexane

Concen: 18.429 ug/l

RT: 7.63 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VN060165.D

Acq: 20 Feb 2020 12:07

Instrument :

MSVOA_N

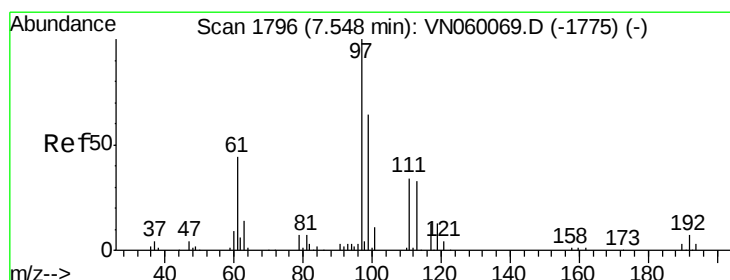
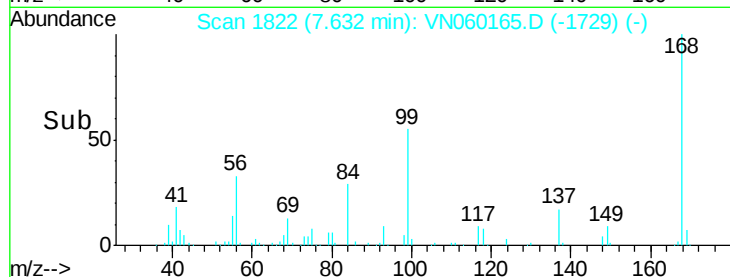
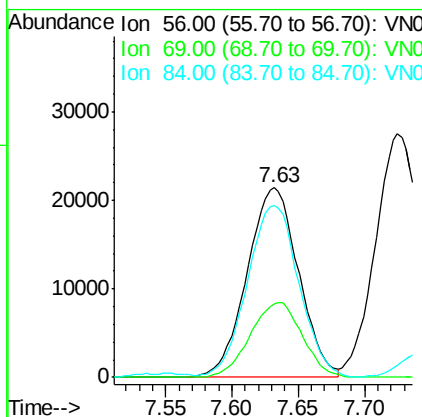
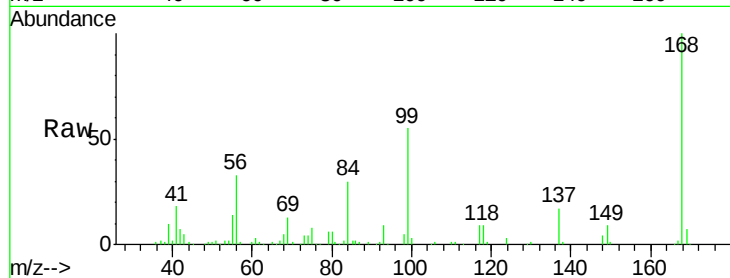
ClientSampled :

VN0220MBS01

Tot Ion:	56	Resp:	58010
Ion	Ratio	Lower	Upper
56	100		
69	38.7	28.3	42.5
84	89.5	72.6	108.8

Manual Integrations
APPROVED

MMDadoda
2/21/2020 9:14:38 AM



#32

1,1,1-Trichloroethane

Concen: 18.455 ug/l

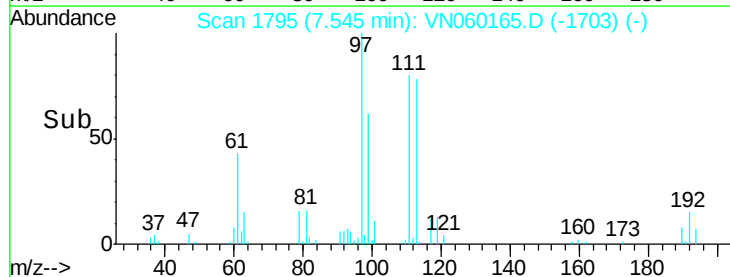
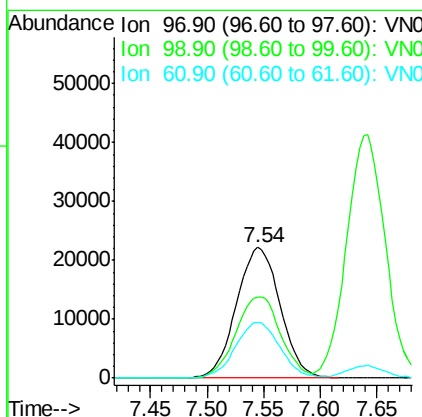
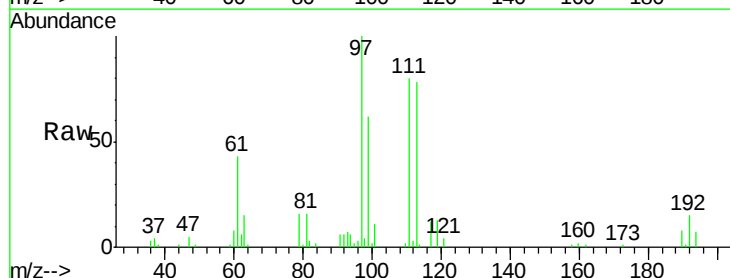
RT: 7.54 min Scan# 1795

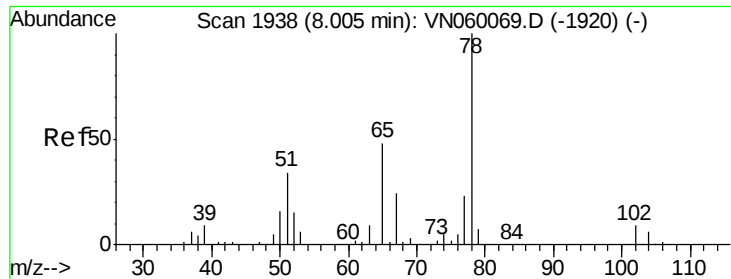
Delta R.T. -0.00 min

Lab File: VN060165.D

Acq: 20 Feb 2020 12:07

Tgt Ion:	97	Resp:	59695
Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.4	77.0
61	43.1	34.9	52.3





#33

1,2-Dichloroethane-d4

Concen: 48.923 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060165.D

Acq: 20 Feb 2020 12:07

Instrument :

MSVOA_N

ClientSampled :

VN0220MBS01

Tot Ion: 65 Resp: 108881

Ion Ratio Lower Upper

65 100

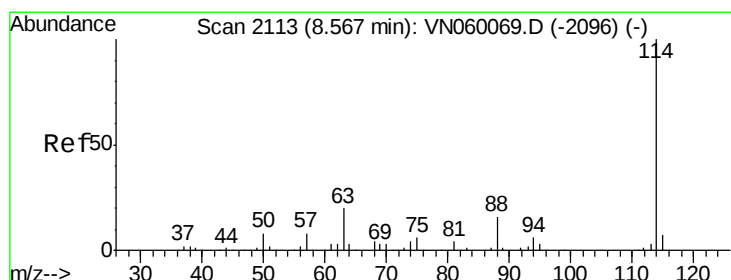
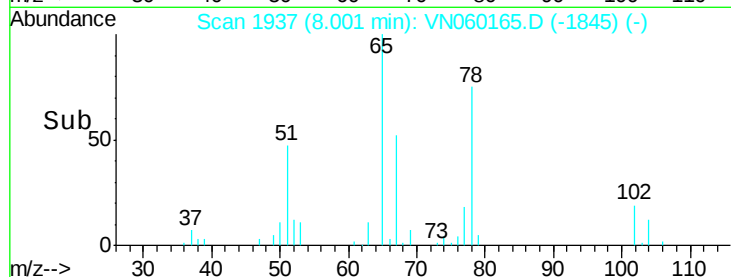
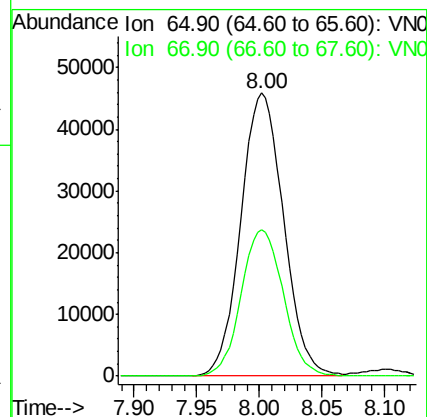
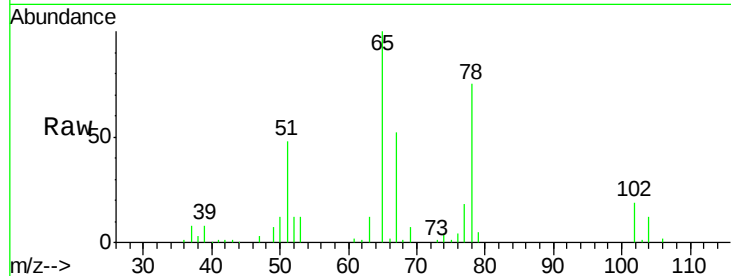
67 50.9 0.0 104.0

Manual Integrations

APPROVED

MMDadoda

2/21/2020 9:14:38 AM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.56 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VN060165.D

Acq: 20 Feb 2020 12:07

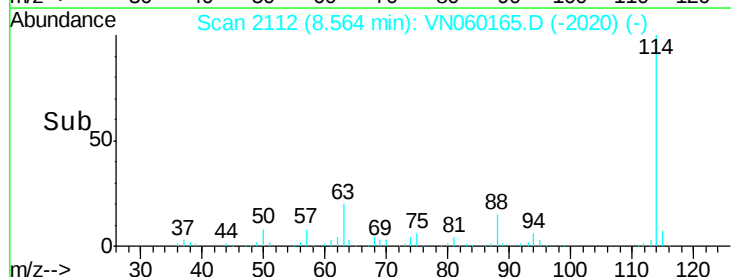
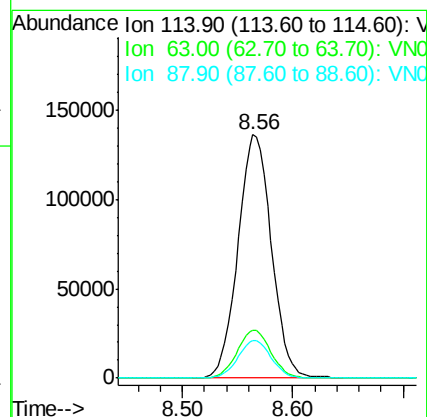
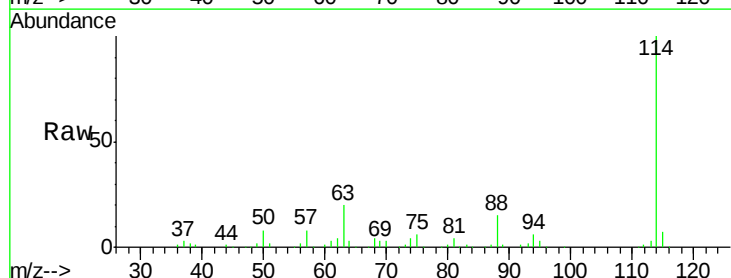
Tgt Ion: 114 Resp: 286012

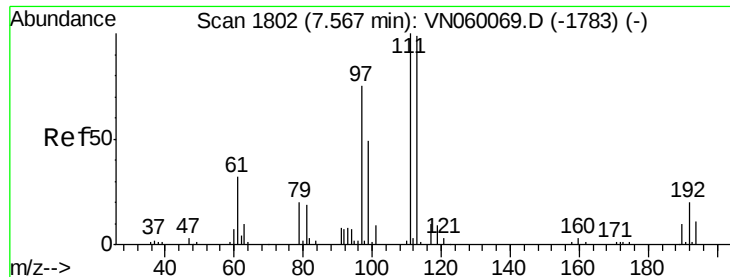
Ion Ratio Lower Upper

114 100

63 19.7 0.0 40.0

88 15.3 0.0 31.6





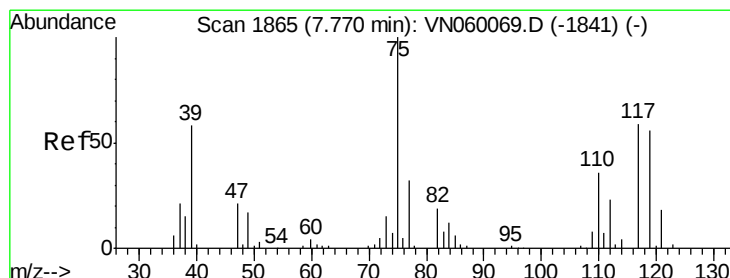
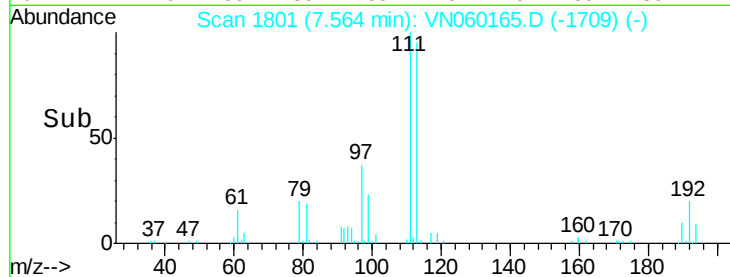
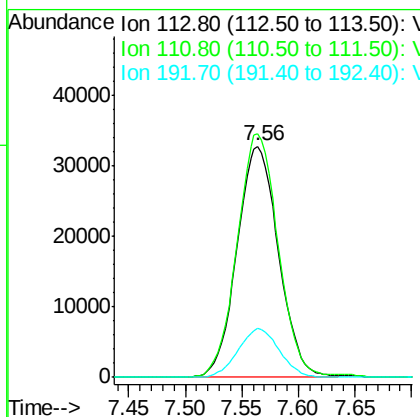
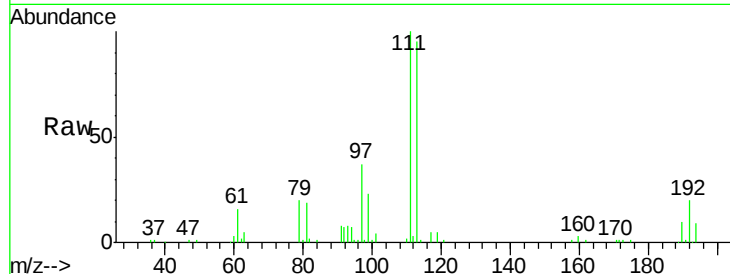
#35
 Dibromofluoromethane
 Concen: 47.656 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060165.D
 Acq: 20 Feb 2020 12:07

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0220MBS01

Tot Ion	Ratio	Lower	Upper
113	100		
111	104.2	81.4	122.2
192	20.8	16.2	24.2

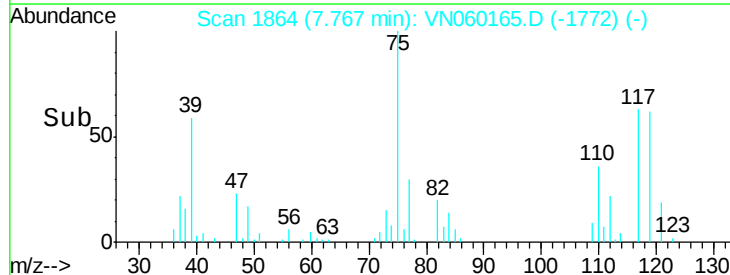
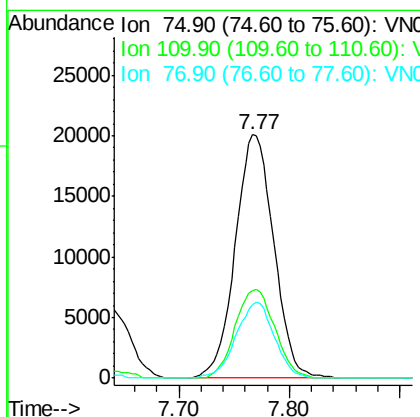
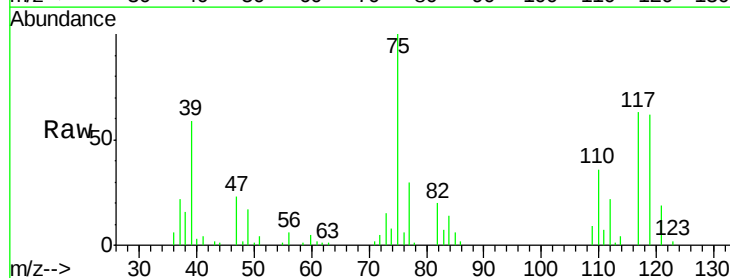
Manual Integrations
 APPROVED

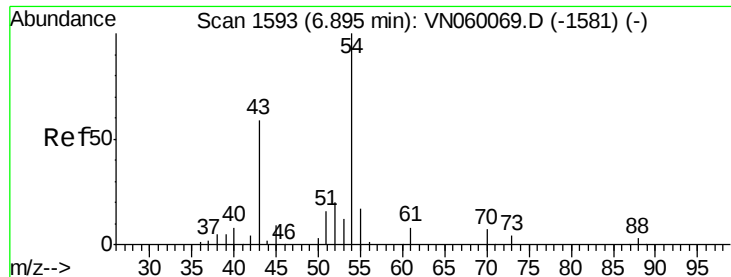
MMDadoda
 2/21/2020 9:14:38 AM



#36
 1,1-Dichloropropene
 Concen: 18.337 ug/l
 RT: 7.77 min Scan# 1864
 Delta R.T. -0.00 min
 Lab File: VN060165.D
 Acq: 20 Feb 2020 12:07

Tgt Ion	Ratio	Lower	Upper
75	100		
110	37.5	18.1	54.3
77	31.0	25.1	37.7





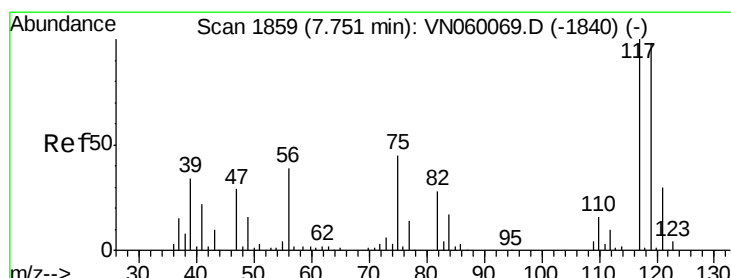
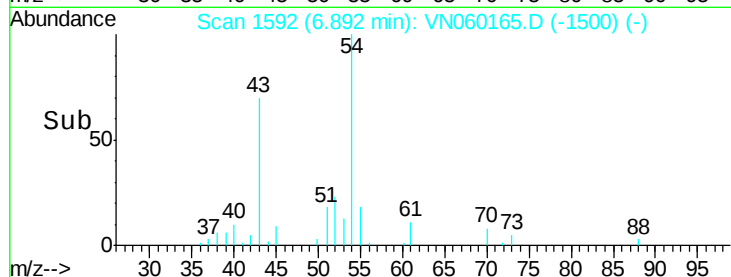
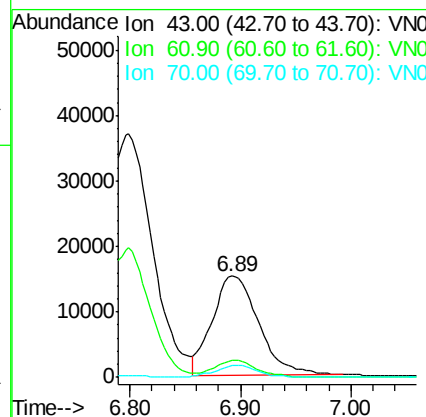
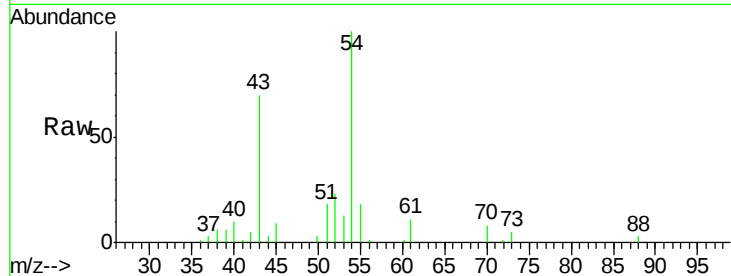
#37
Ethyl Acetate
Concen: 18.760 ug/l
RT: 6.89 min Scan# 1592
Delta R.T. -0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0220MBS01

Tot Ion	43	61	70
Resp	44915	15.6	10.9
Lower		11.4	8.7
Upper		17.2	13.1

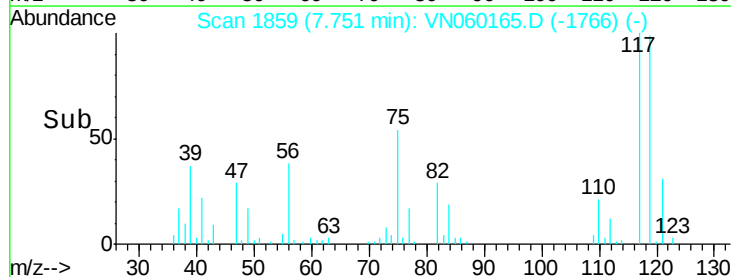
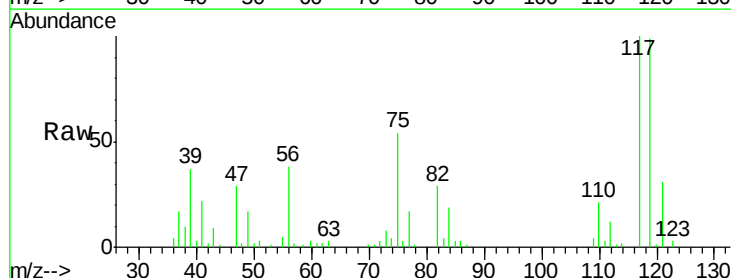
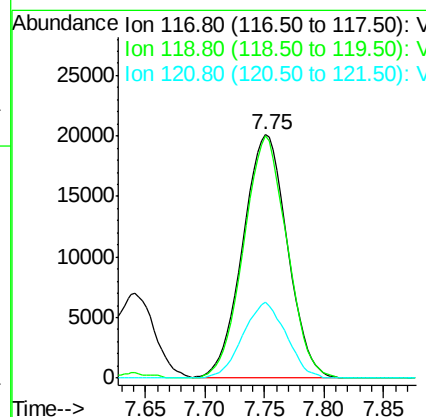
Manual Integrations
APPROVED

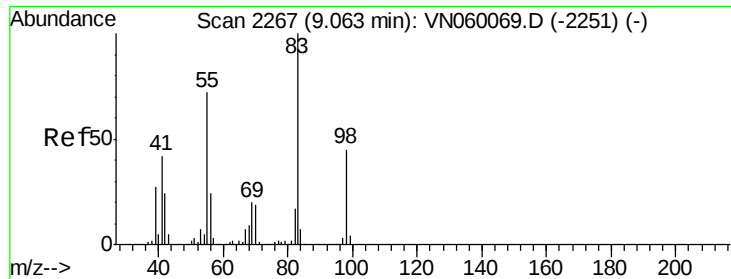
MMDadoda
2/21/2020 9:14:38 AM



#38
Carbon Tetrachloride
Concen: 18.169 ug/l
RT: 7.75 min Scan# 1859
Delta R.T. 0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Tgt Ion	117	119	121
Resp	52275	99.3	31.0
Lower		78.2	24.2
Upper		117.4	36.2





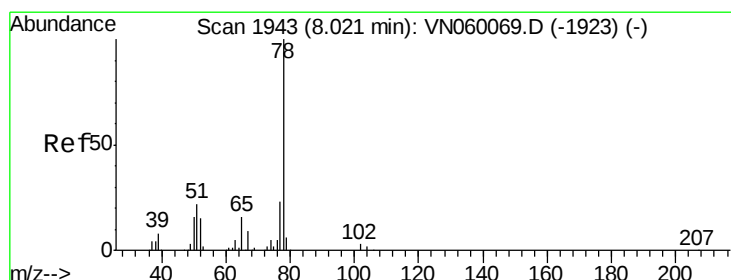
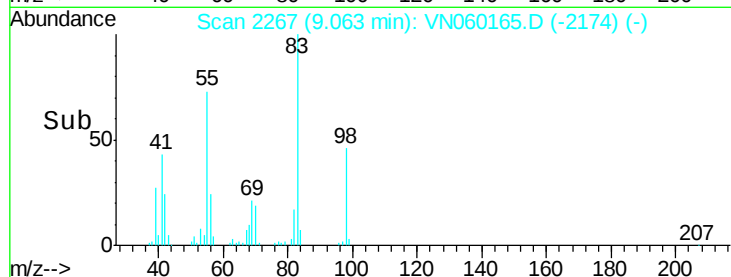
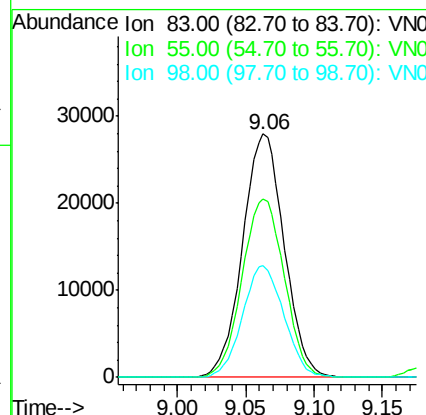
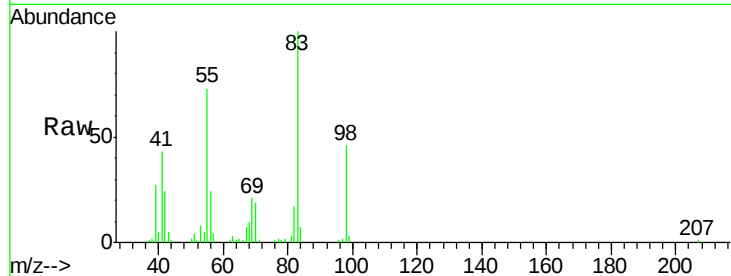
#39
Methvlcvclohexane
Concen: 18.001 ug/l
RT: 9.06 min Scan# 2267
Delta R.T. 0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0220MBS01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	59196		
55	73.4		57.8	86.8
98	45.9		36.4	54.6

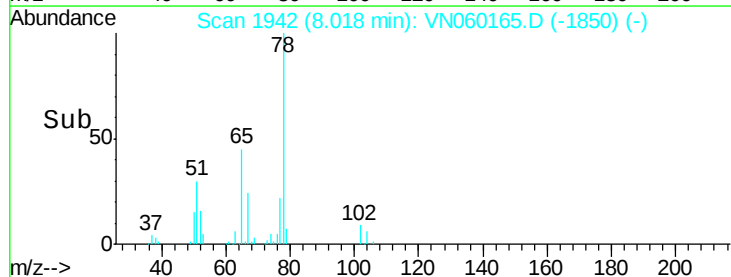
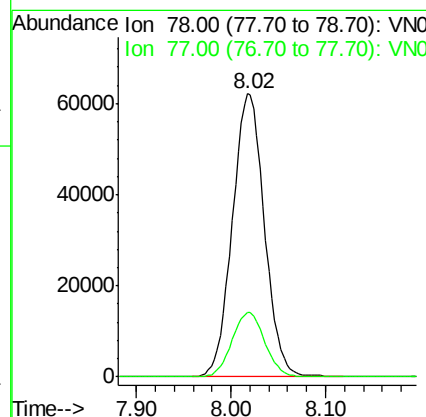
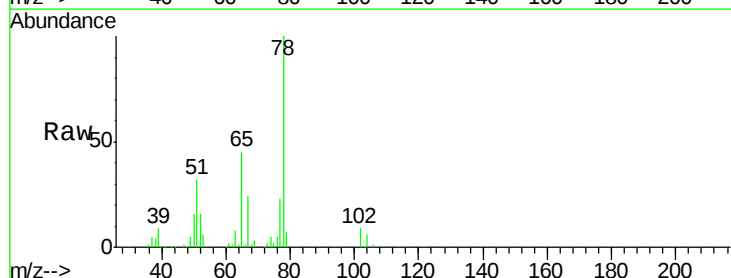
Manual Integrations
APPROVED

MMDadoda
2/21/2020 9:14:38 AM



#40
Benzene
Concen: 18.578 ug/l
RT: 8.02 min Scan# 1942
Delta R.T. -0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	145997		
77	22.8		18.8	28.2





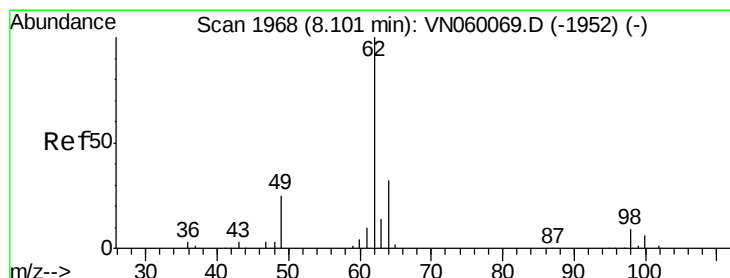
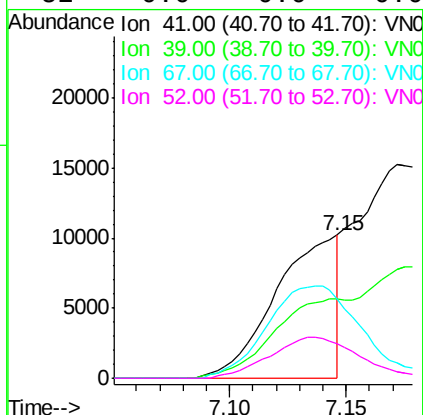
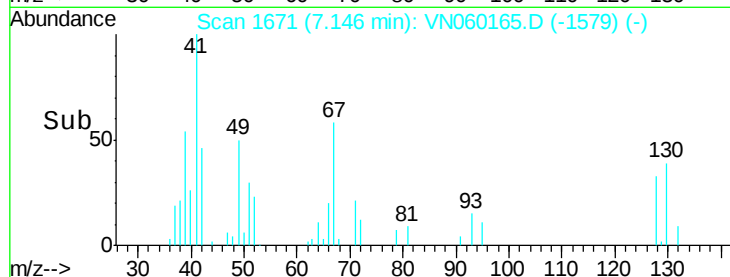
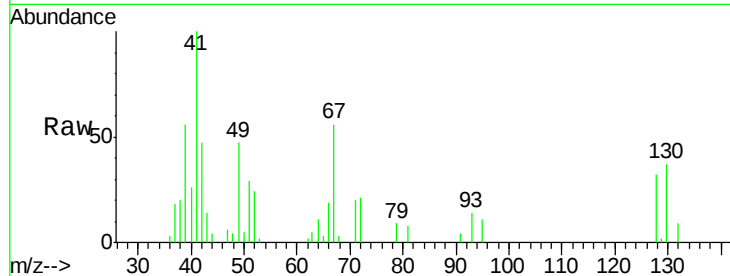
#41
Methacrylonitrile
Concen: 18.964 ug/l m
RT: 7.15 min Scan# 1671
Delta R.T. -0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0220MBS01

Tot Ion	41	Resp	19041
Ion Ratio	Lower	Upper	
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

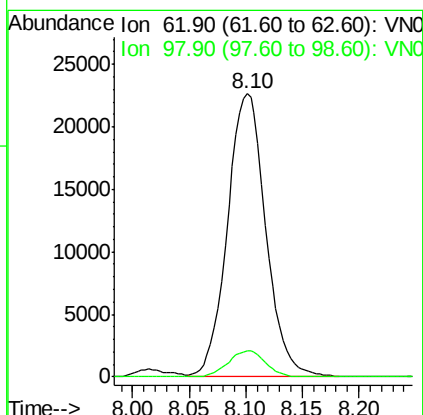
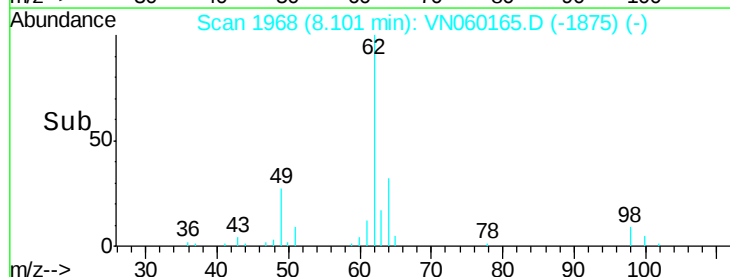
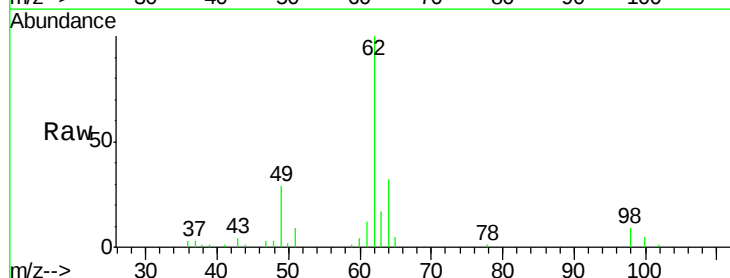
Manual Integrations
APPROVED

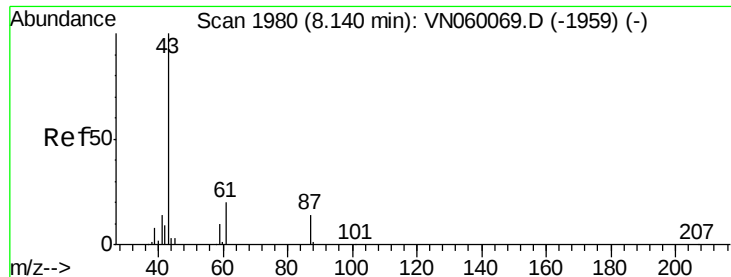
MMDadoda
2/21/2020 9:14:38 AM



#42
1,2-Dichloroethane
Concen: 19.403 ug/l
RT: 8.10 min Scan# 1968
Delta R.T. 0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Tgt Ion	62	Resp	53442
Ion Ratio	Lower	Upper	
62	100		
98	8.9	0.0	18.2





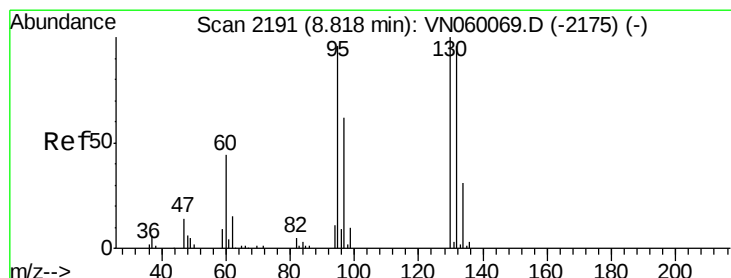
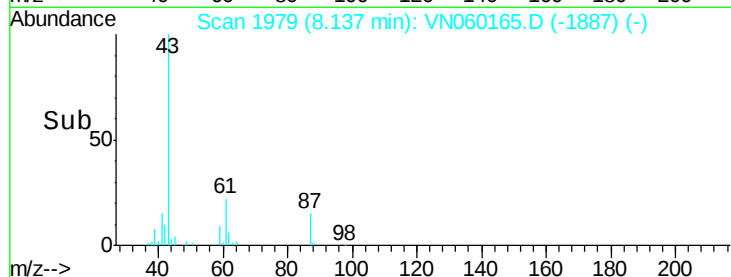
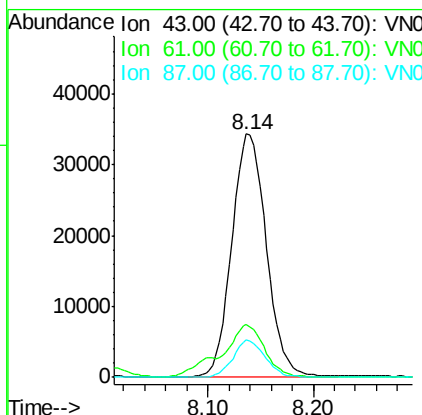
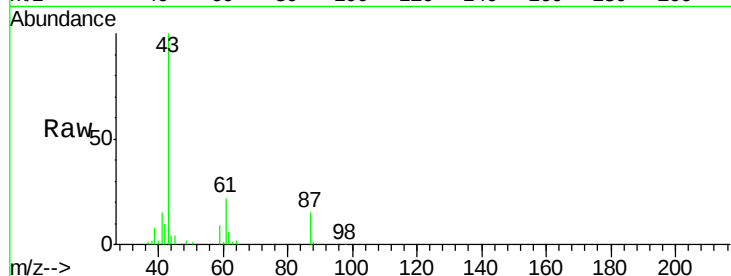
#43
Isopropyl Acetate
Concen: 19.170 ug/l
RT: 8.14 min Scan# 1979
Delta R.T. -0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0220MBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	21.0	21.8	32.6#
87	14.1	11.4	17.2

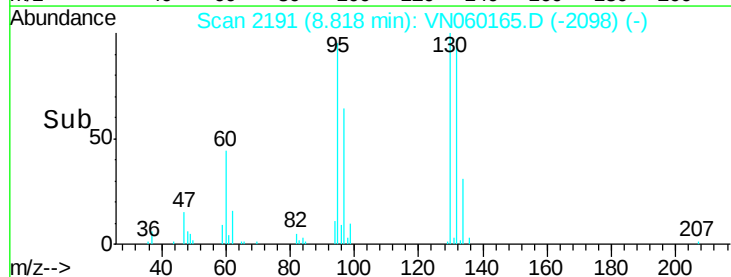
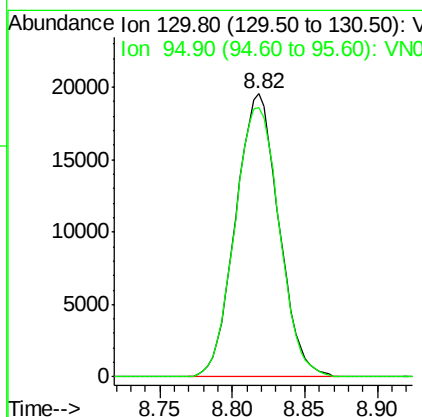
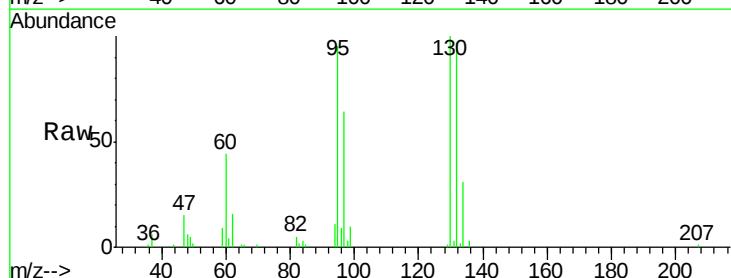
Manual Integrations
APPROVED

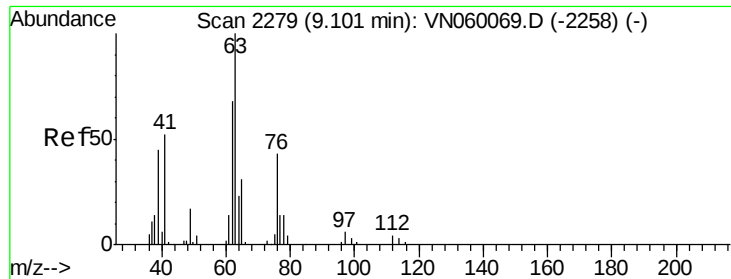
MMDadoda
2/21/2020 9:14:38 AM



#44
Trichloroethene
Concen: 18.598 ug/l
RT: 8.82 min Scan# 2191
Delta R.T. 0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Tgt Ion	Ratio	Lower	Upper
130	100		
95	95.2	0.0	192.4





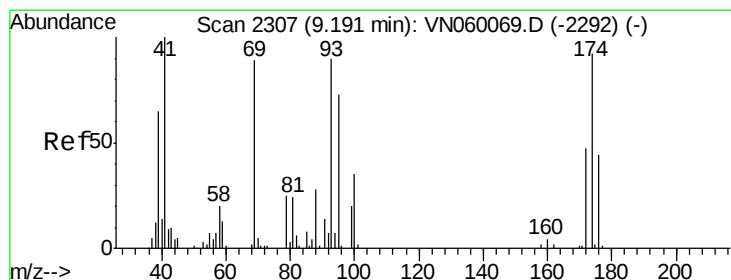
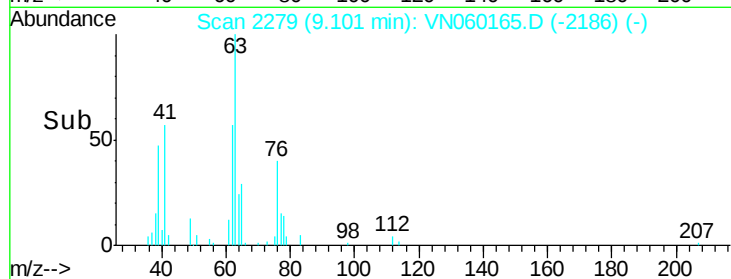
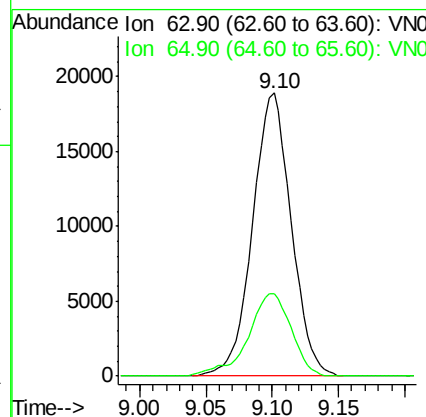
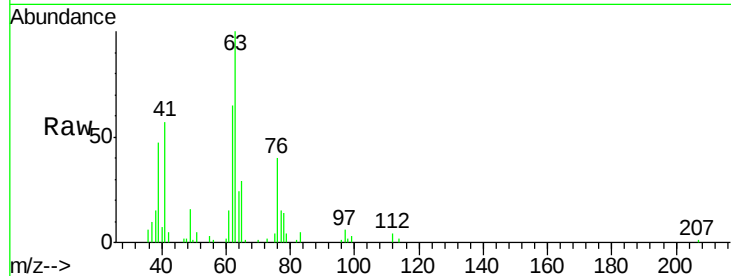
#45
 1,2-Dichloropropane
 Concen: 19.739 ug/l
 RT: 9.10 min Scan# 2279
 Delta R.T. 0.00 min
 Lab File: VN060165.D
 Acq: 20 Feb 2020 12:07

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0220MBS01

Tot Ion: 63 Resp: 38403
 Ion Ratio Lower Upper
 63 100
 65 29.0 25.0 37.4

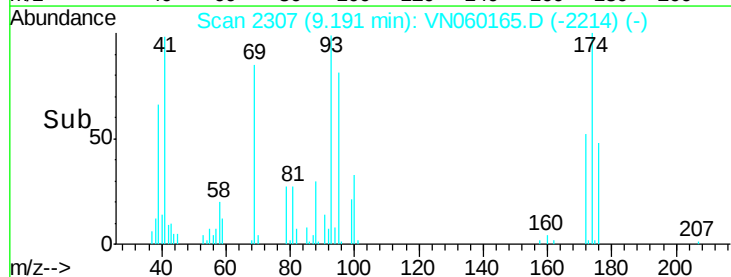
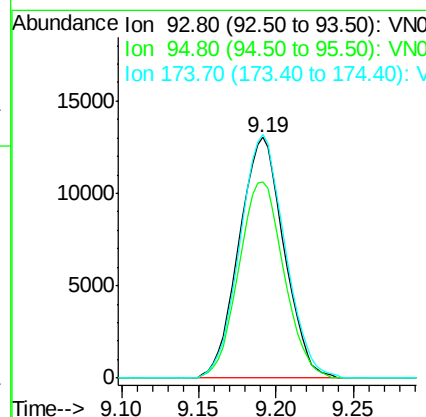
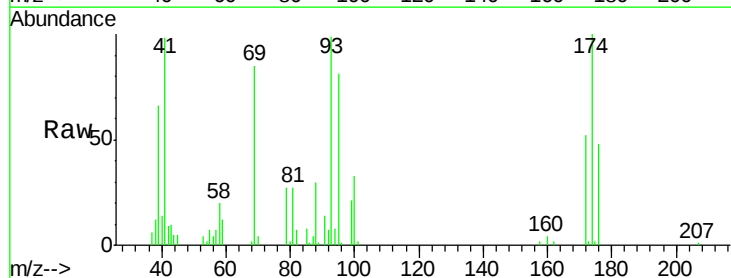
Manual Integrations
 APPROVED

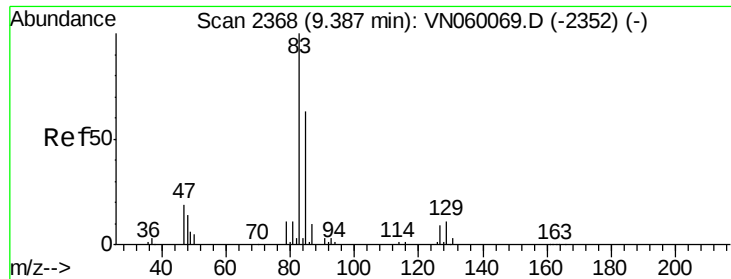
MMDadoda
 2/21/2020 9:14:38 AM



#46
 Dibromomethane
 Concen: 19.173 ug/l
 RT: 9.19 min Scan# 2307
 Delta R.T. 0.00 min
 Lab File: VN060165.D
 Acq: 20 Feb 2020 12:07

Tgt Ion: 93 Resp: 26360
 Ion Ratio Lower Upper
 93 100
 95 81.6 65.0 97.6
 174 101.5 82.3 123.5





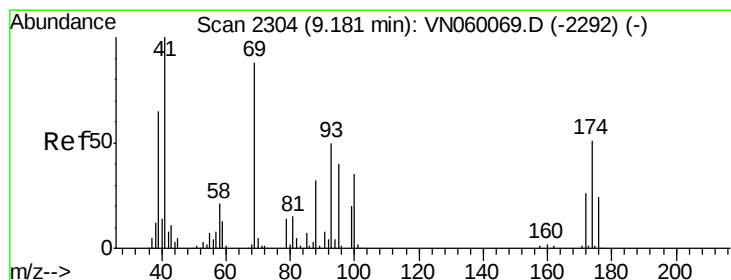
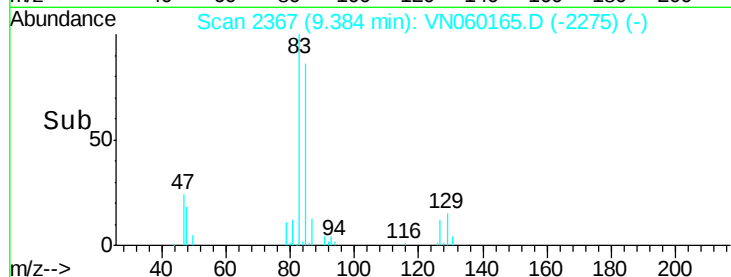
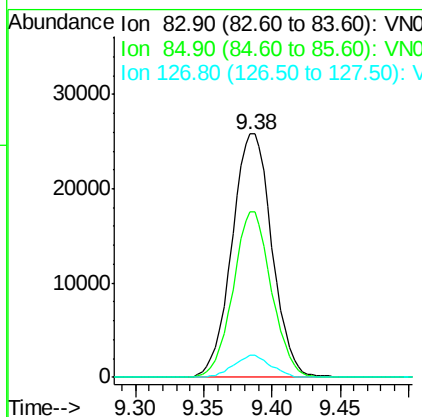
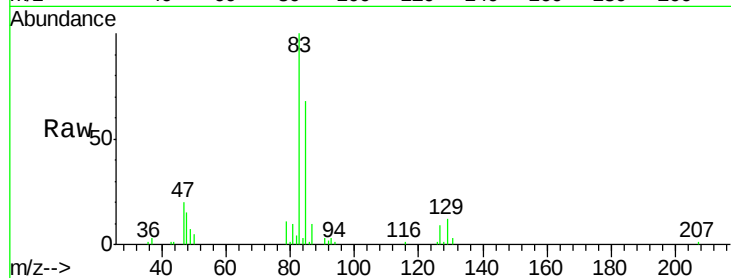
#47
Bromodichloromethane
Concen: 18.814 ug/l
RT: 9.38 min Scan# 2367
Delta R.T. -0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0220MBS01

Tot Ion	83	Resp	52590
Ion Ratio	100	Lower	Upper
83	100		
85	68.2	50.6	75.8
127	9.2	7.0	10.6

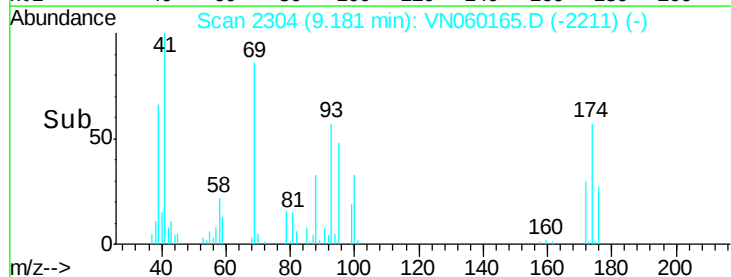
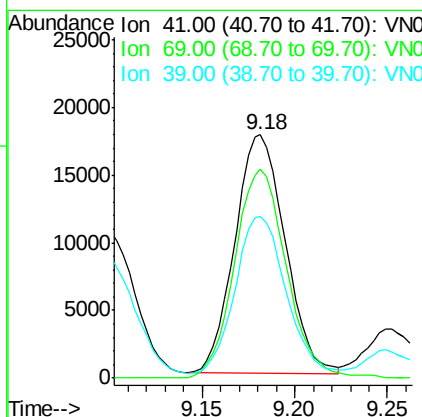
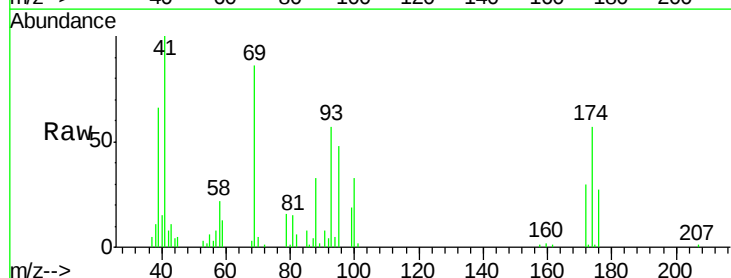
Manual Integrations
APPROVED

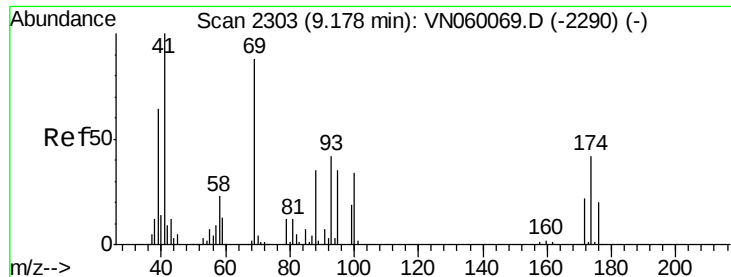
MMDadoda
2/21/2020 9:14:38 AM



#48
Methyl methacrylate
Concen: 18.179 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. 0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Tgt Ion	41	Resp	33382
Ion Ratio	100	Lower	Upper
41	100		
69	89.8	72.0	108.0
39	70.5	54.1	81.1





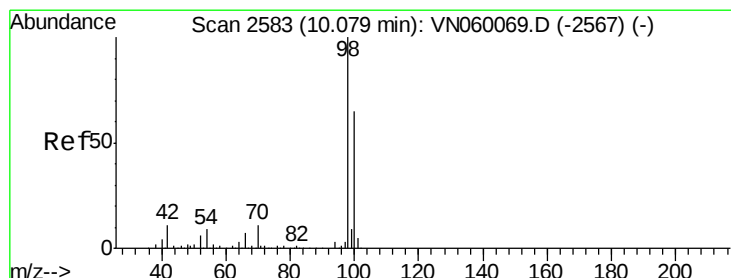
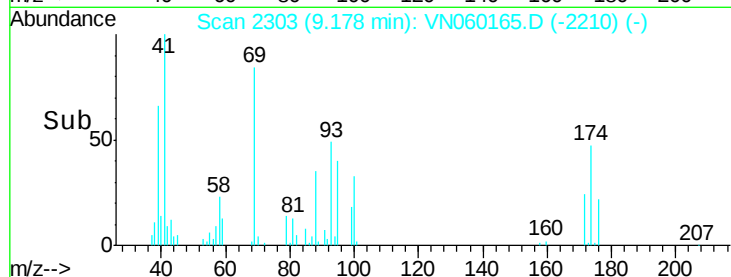
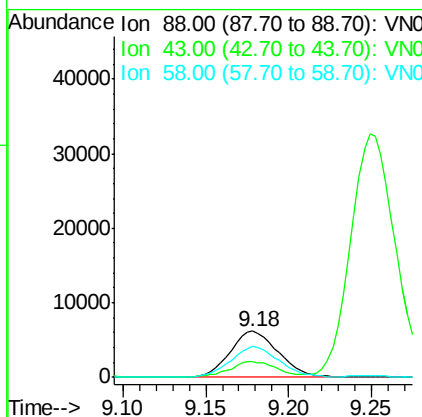
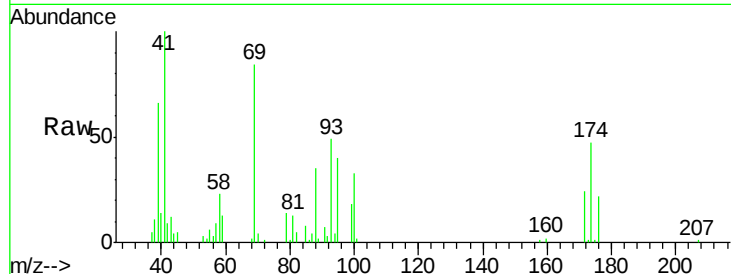
#49
1,4-Dioxane
Concen: 398.794 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. 0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0220MBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	33.8	26.2	39.2
58	66.6	53.2	79.8

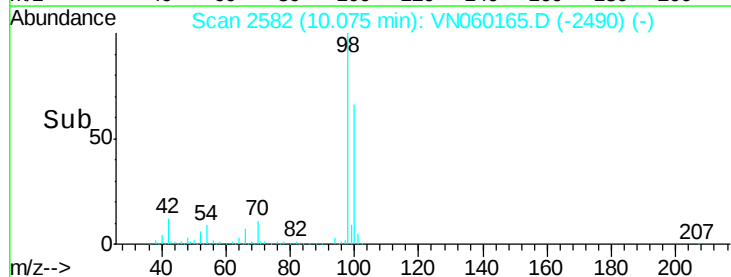
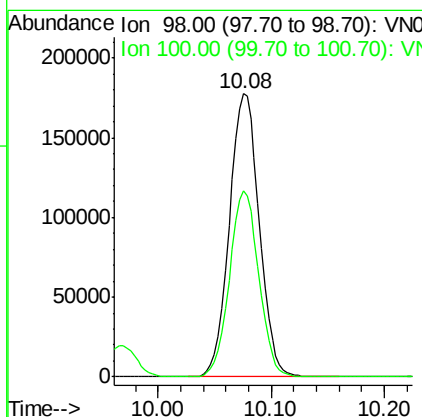
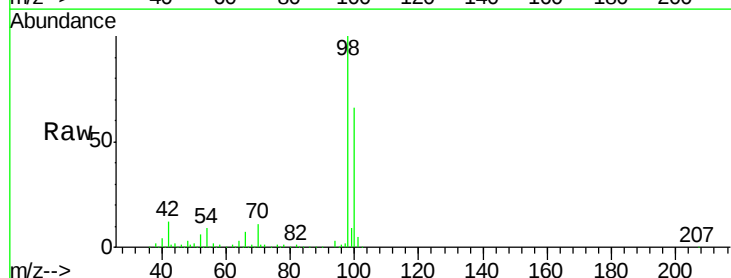
Manual Integrations
APPROVED

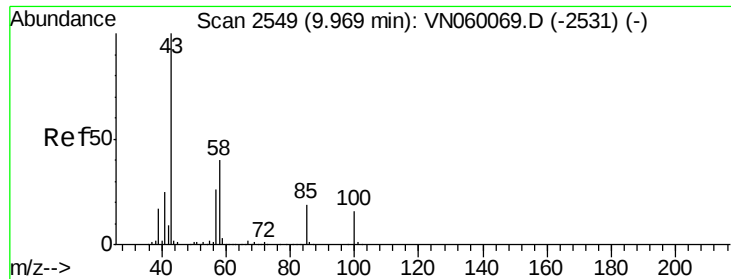
MMDadoda
2/21/2020 9:14:38 AM



#50
Toluene-d8
Concen: 47.092 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.7	77.5





#51

4-Methyl-2-Pentanone

Concen: 95.632 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060165.D

Acq: 20 Feb 2020 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0220MBS01

Tot Ion: 43 Resp: 226548

Ion Ratio Lower Upper

43 100

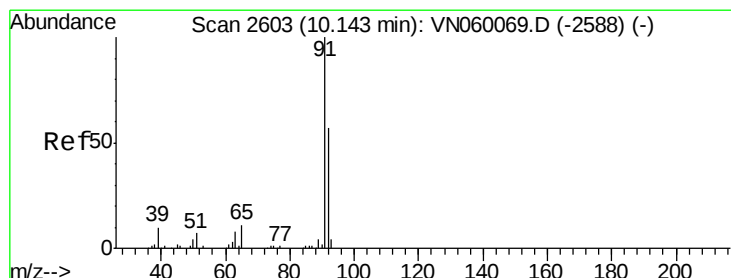
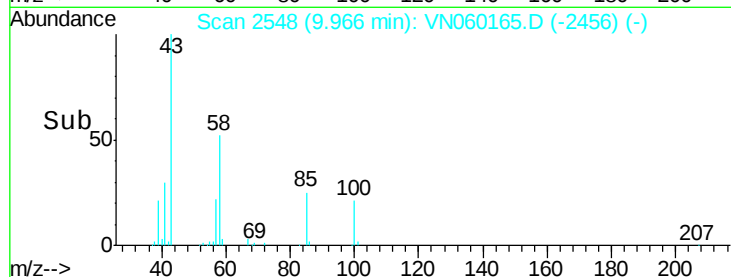
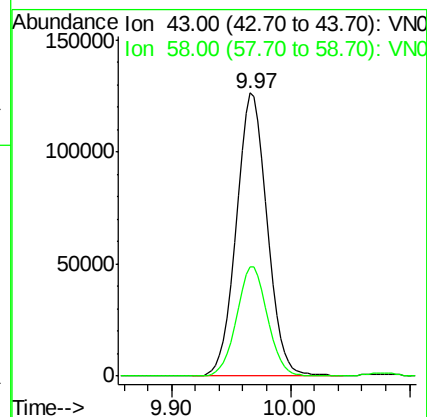
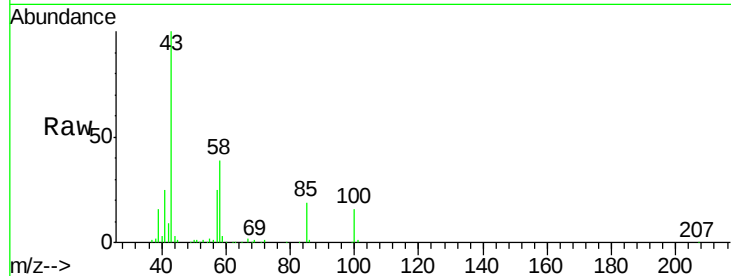
58 38.8 31.8 47.8

Manual Integrations

APPROVED

MMDadoda

2/21/2020 9:14:38 AM



#52

Toluene

Concen: 18.453 ug/l

RT: 10.14 min Scan# 2602

Delta R.T. -0.00 min

Lab File: VN060165.D

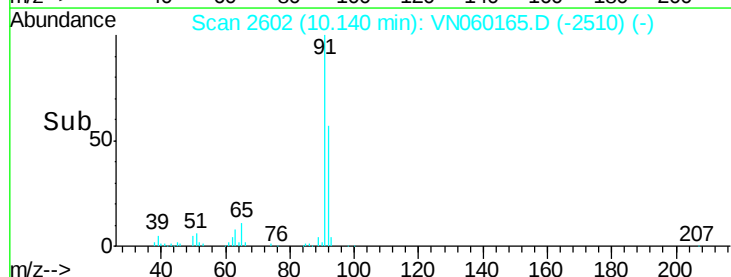
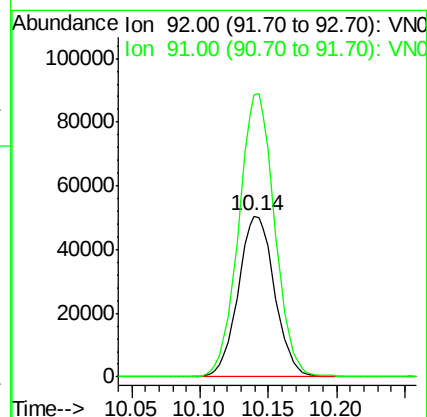
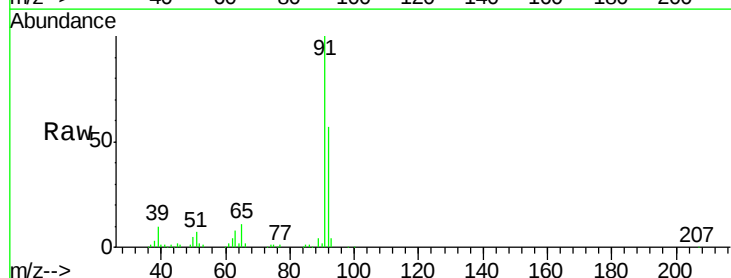
Acq: 20 Feb 2020 12:07

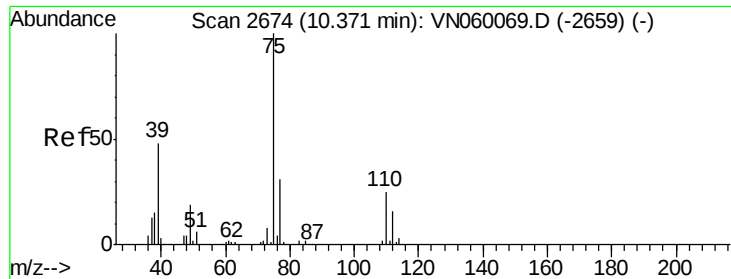
Tgt Ion: 92 Resp: 92989

Ion Ratio Lower Upper

92 100

91 174.4 140.9 211.3





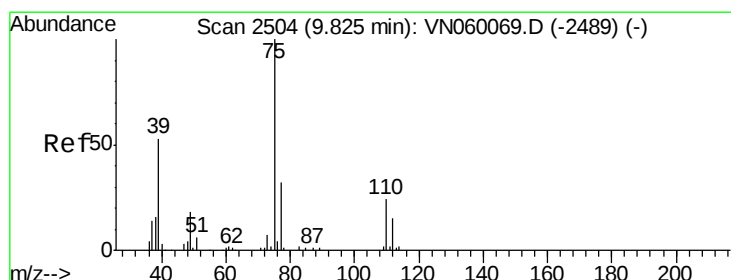
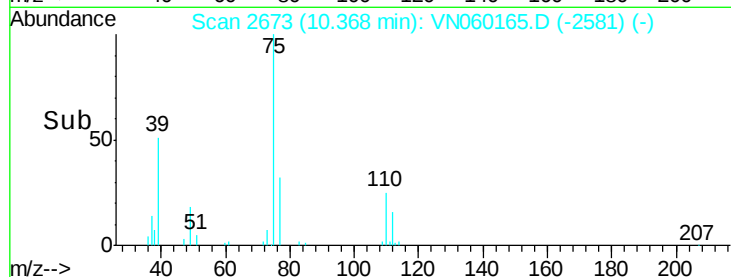
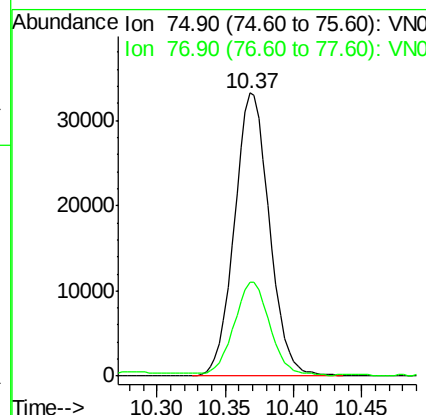
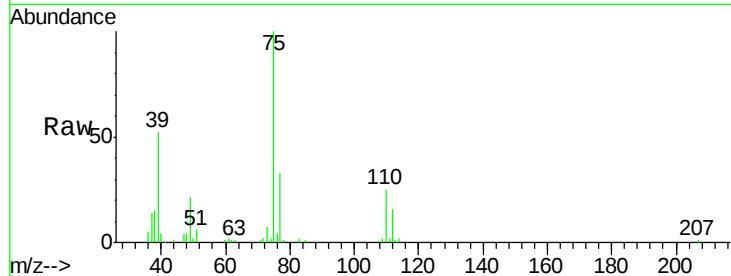
#53
t-1,3-Dichloropropene
Concen: 18.767 ug/l
RT: 10.37 min Scan# 2673
Delta R.T. -0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Instrument :
MSVOA_N
ClientSampled :
VN0220MBS01

Tot Ion: 75 Resp: 59213
Ion Ratio Lower Upper
75 100
77 32.6 25.4 38.0

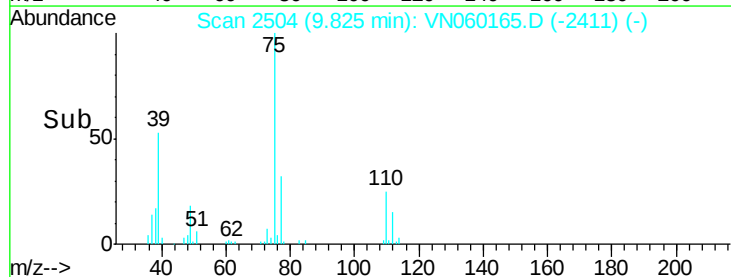
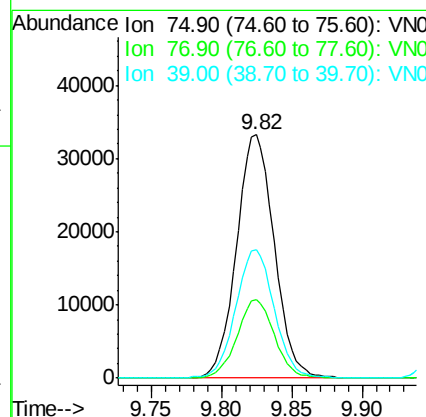
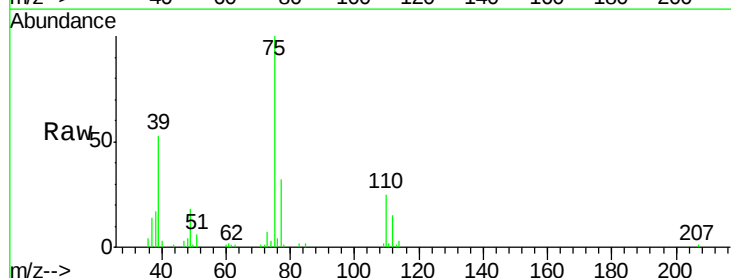
Manual Integrations
APPROVED

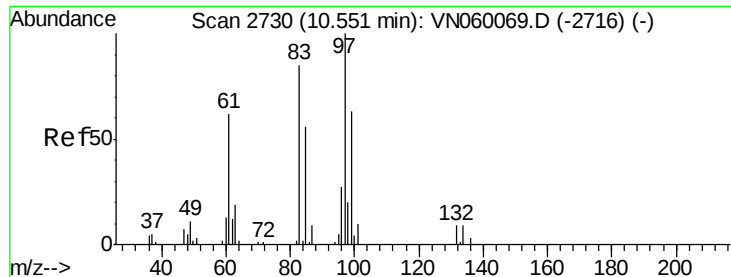
MMDadoda
2/21/2020 9:14:38 AM



#54
cis-1,3-Dichloropropene
Concen: 18.761 ug/l
RT: 9.82 min Scan# 2504
Delta R.T. 0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Tgt Ion: 75 Resp: 62332
Ion Ratio Lower Upper
75 100
77 32.3 25.6 38.4
39 52.8 42.2 63.4





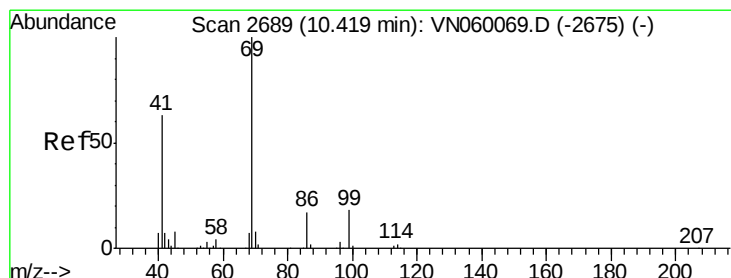
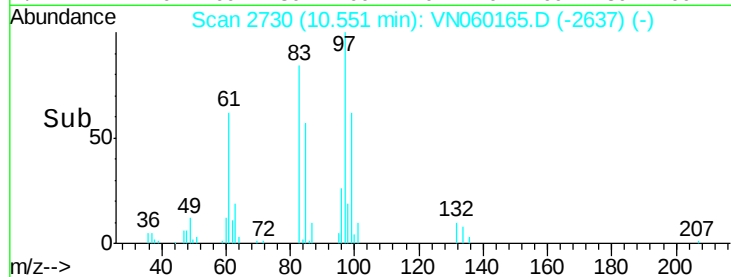
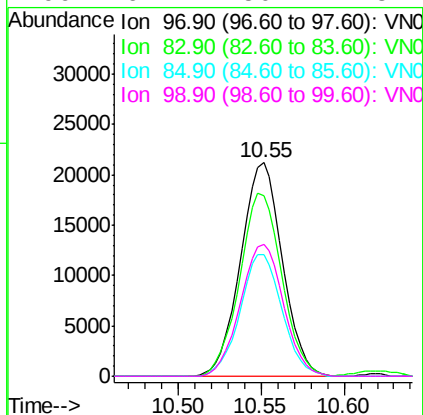
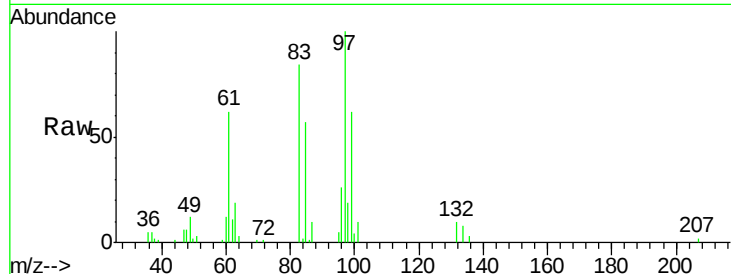
#55
 1,1,2-Trichloroethane
 Concen: 18.936 ug/l
 RT: 10.55 min Scan# 2730
 Delta R.T. 0.00 min
 Lab File: VN060165.D
 Acq: 20 Feb 2020 12:07

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0220MBS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	84.5	67.9	101.9
85	56.7	44.6	67.0
99	61.7	50.1	75.1

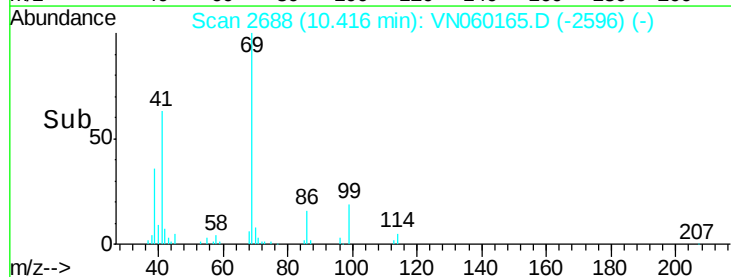
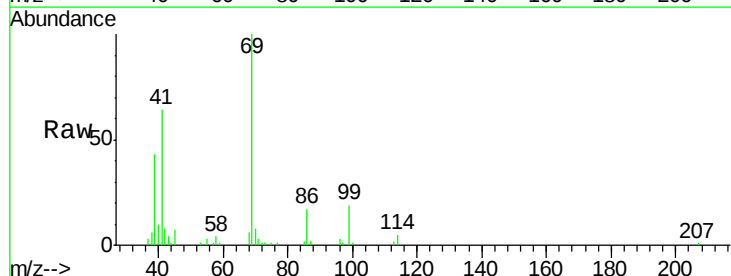
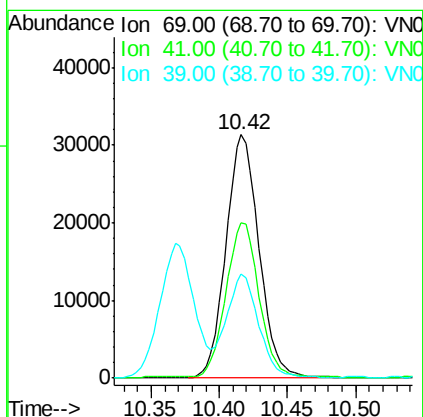
Manual Integrations
 APPROVED

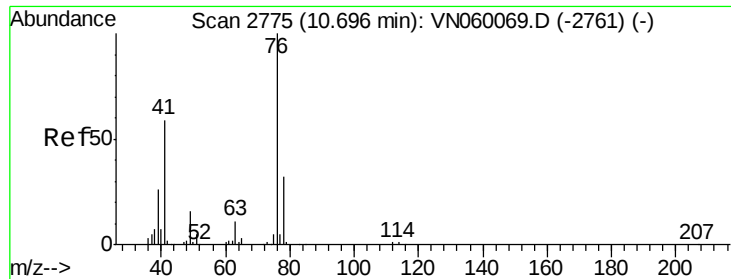
MMDadoda
 2/21/2020 9:14:38 AM



#56
 Ethyl methacrylate
 Concen: 19.042 ug/l
 RT: 10.42 min Scan# 2688
 Delta R.T. -0.00 min
 Lab File: VN060165.D
 Acq: 20 Feb 2020 12:07

Tgt Ion	Ratio	Lower	Upper
69	100		
41	64.7	51.1	76.7
39	42.3	33.8	50.8





#57

1,3-Dichloropropane

Concen: 19.052 ug/l

RT: 10.70 min Scan# 2775

Delta R.T. 0.00 min

Lab File: VN060165.D

Acq: 20 Feb 2020 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0220MBS01

Tot Ion: 76 Resp: 61803

Ion Ratio Lower Upper

76 100

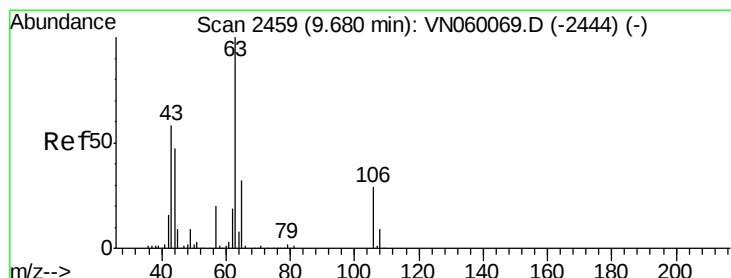
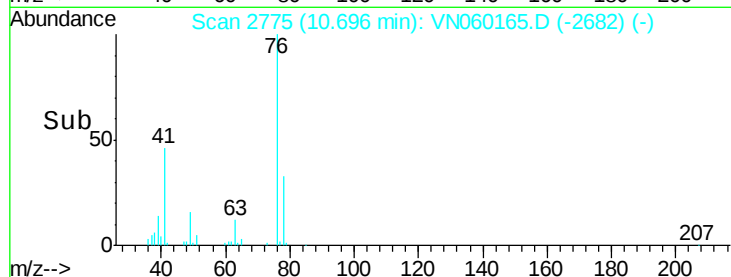
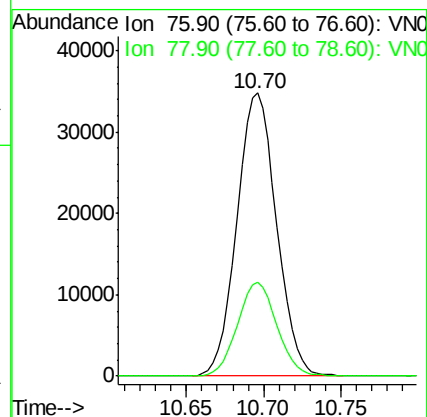
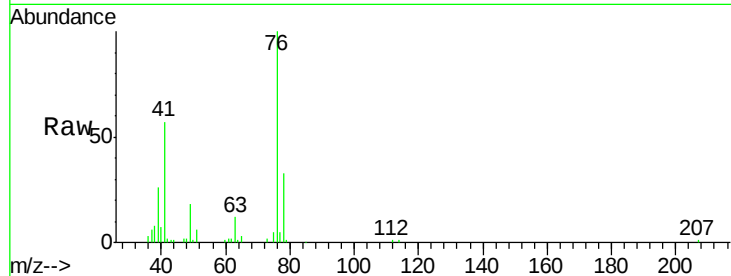
78 33.1 25.7 38.5

Manual Integrations

APPROVED

MMDadoda

2/21/2020 9:14:38 AM



#58

2-Chloroethyl Vinyl ether

Concen: 95.155 ug/l

RT: 9.68 min Scan# 2459

Delta R.T. 0.00 min

Lab File: VN060165.D

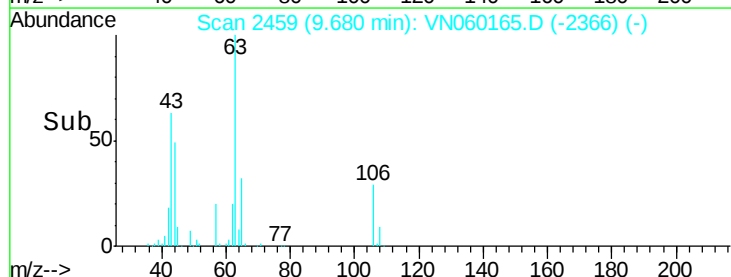
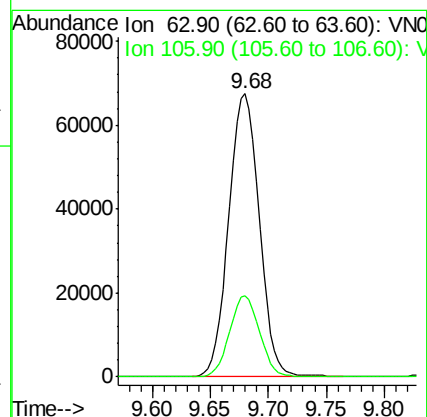
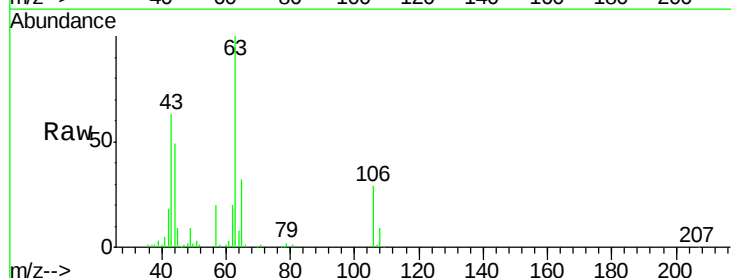
Acq: 20 Feb 2020 12:07

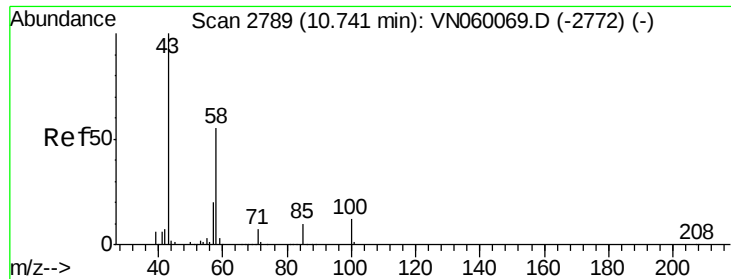
Tgt Ion: 63 Resp: 123286

Ion Ratio Lower Upper

63 100

106 28.0 22.9 34.3





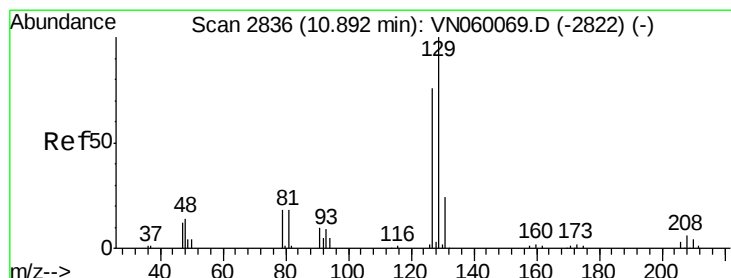
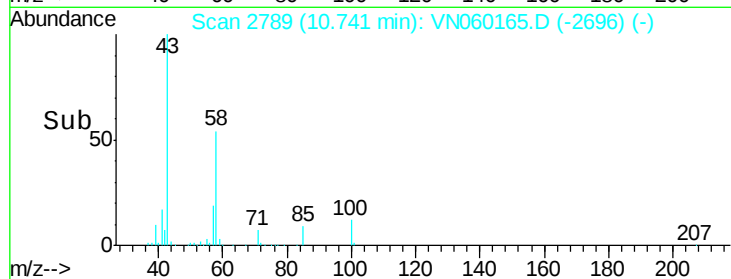
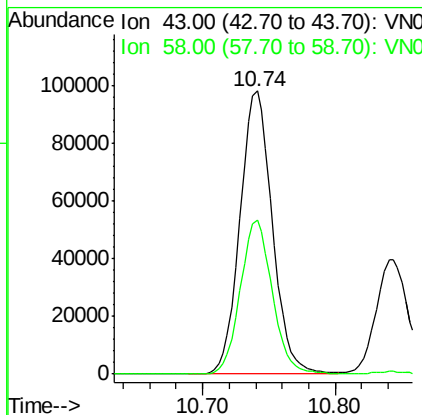
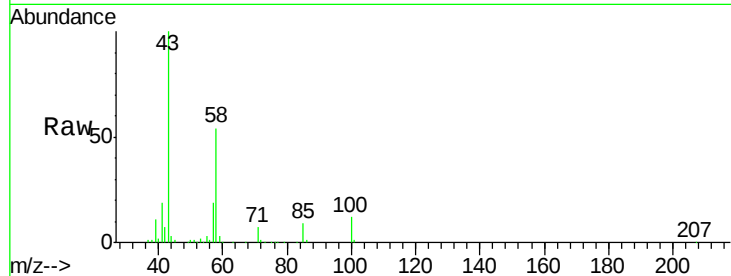
#59
2-Hexanone
Concen: 91.125 ug/l
RT: 10.74 min Scan# 2789
Delta R.T. 0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0220MBS01

Tot Ion: 43 Resp: 166755
Ion Ratio Lower Upper
43 100
58 53.8 27.5 82.4

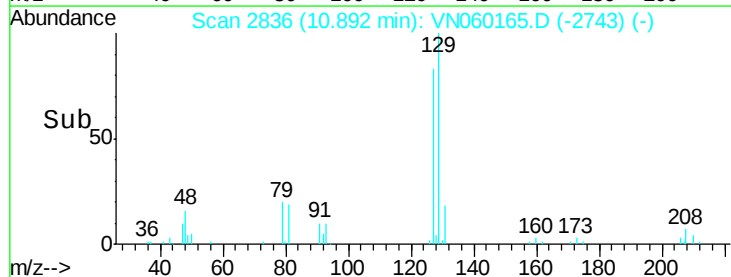
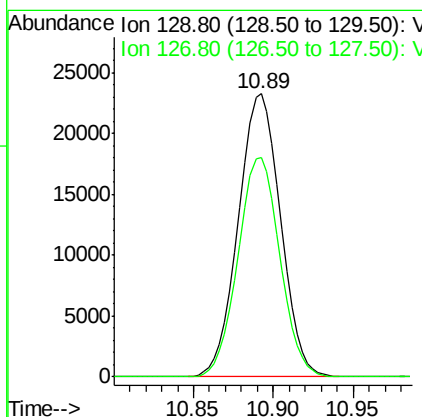
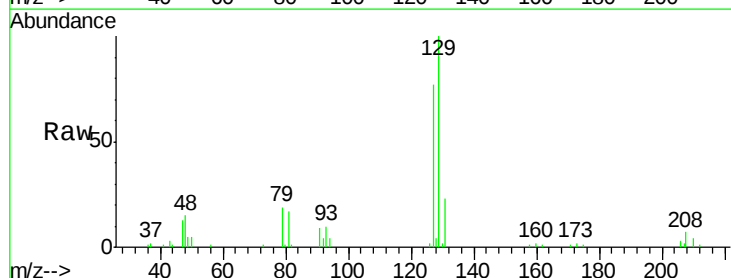
Manual Integrations
APPROVED

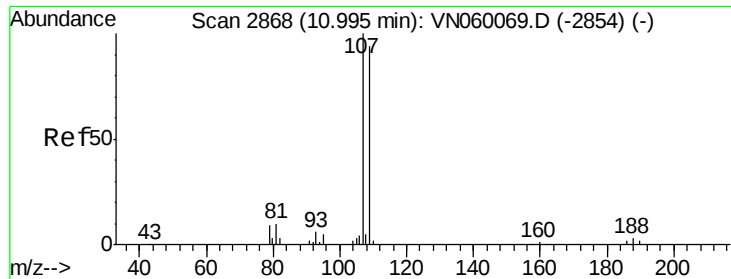
MMDadoda
2/21/2020 9:14:38 AM



#60
Dibromochloromethane
Concen: 18.567 ug/l
RT: 10.89 min Scan# 2836
Delta R.T. 0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Tgt Ion: 129 Resp: 41889
Ion Ratio Lower Upper
129 100
127 76.8 38.0 114.1





#61

1,2-Dibromoethane

Concen: 18.612 ug/l

RT: 10.99 min Scan# 2868

Delta R.T. 0.00 min

Lab File: VN060165.D

Acq: 20 Feb 2020 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0220MBS01

Tot Ion:107 Resp: 38357

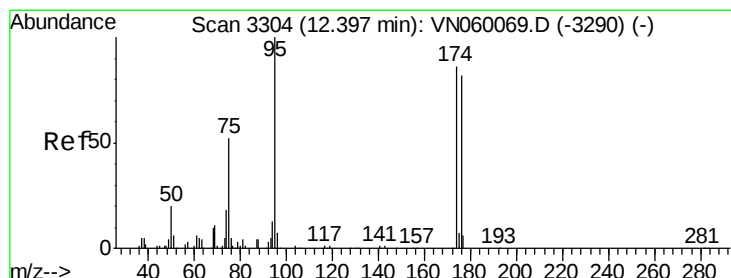
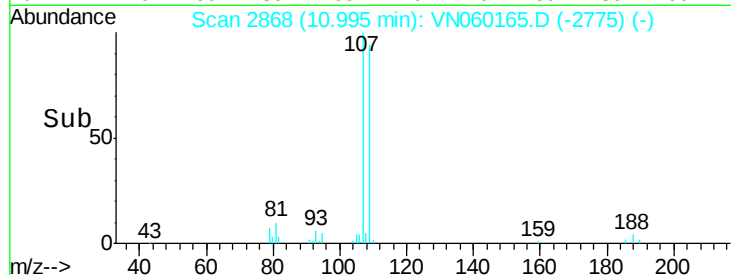
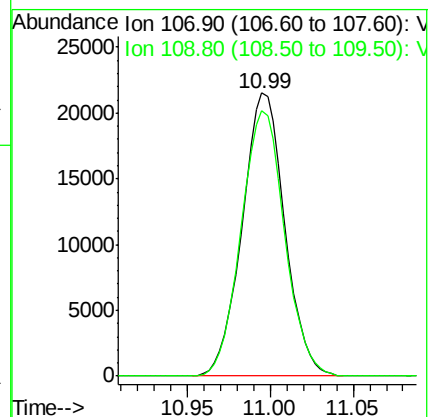
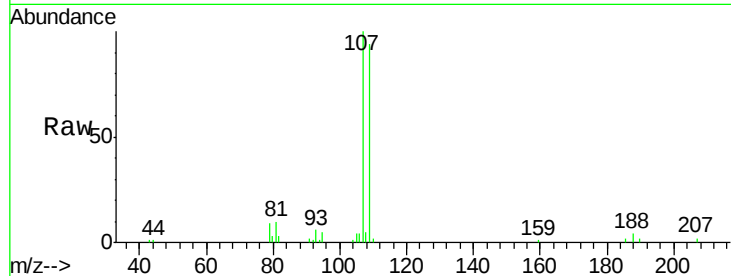
Ion Ratio Lower Upper

107 100

109 96.1 75.4 113.0

Manual Integrations
APPROVED

MMDadoda
2/21/2020 9:14:38 AM



#62

4-Bromofluorobenzene

Concen: 45.456 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060165.D

Acq: 20 Feb 2020 12:07

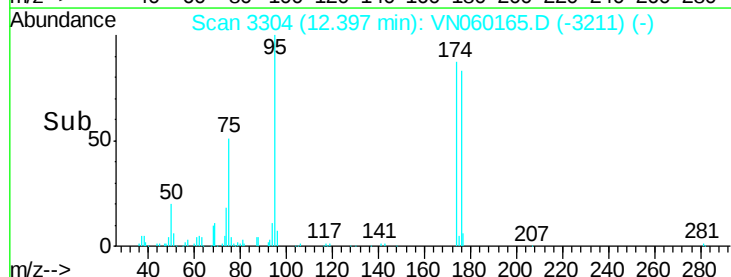
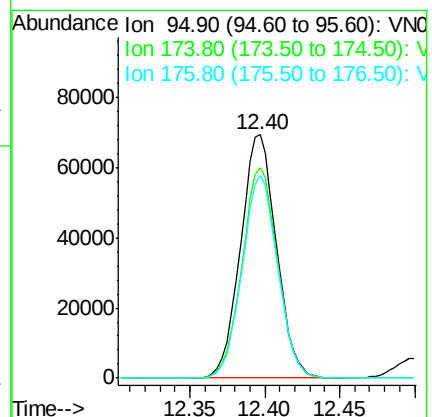
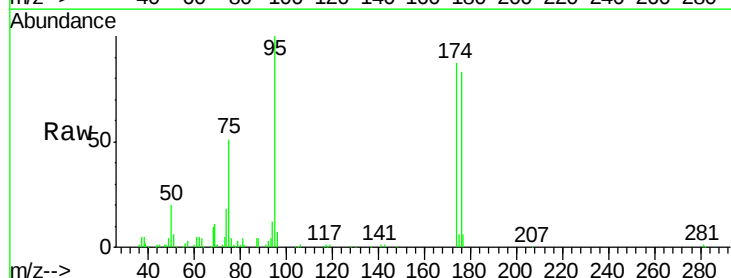
Tgt Ion: 95 Resp: 115641

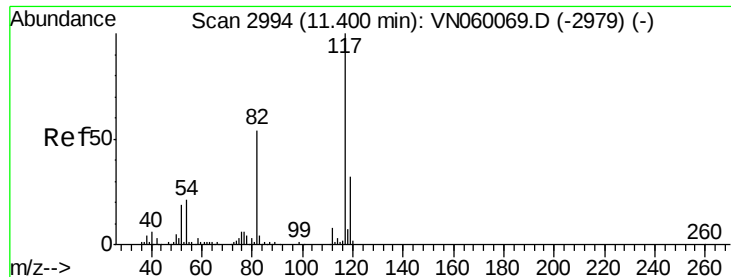
Ion Ratio Lower Upper

95 100

174 85.9 0.0 169.8

176 82.5 0.0 164.8





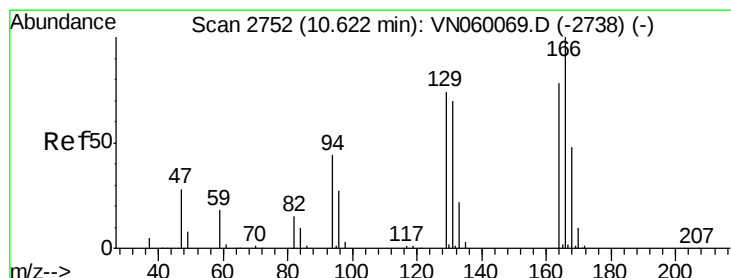
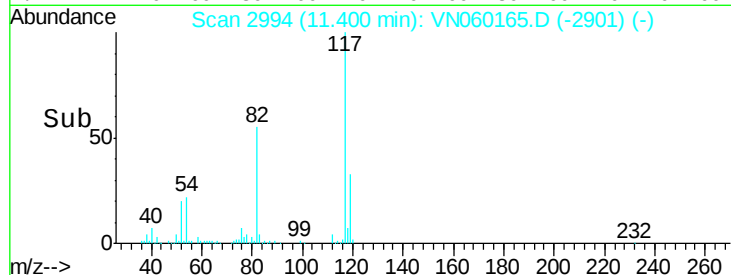
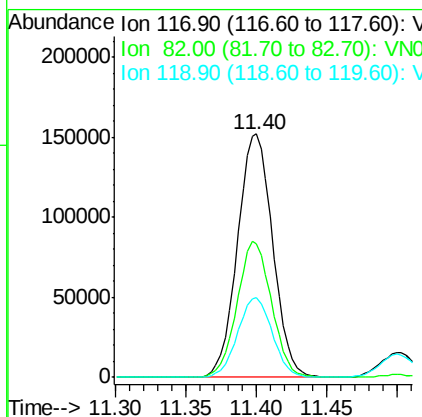
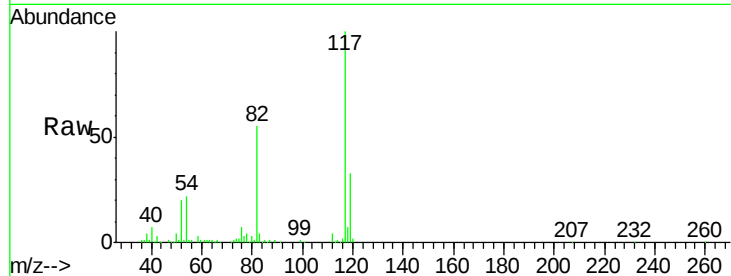
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0220MBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	265929		
82	54.9		43.4	65.0
119	32.5		25.8	38.6

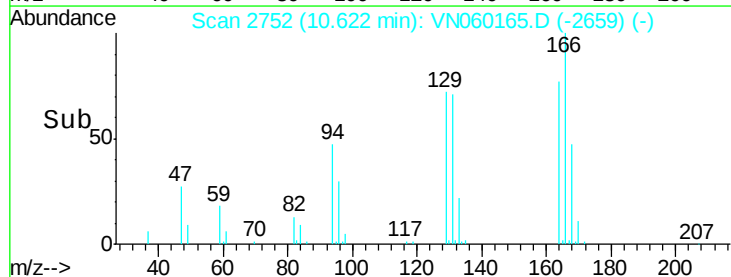
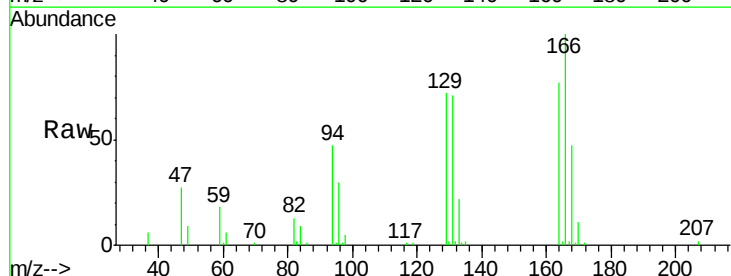
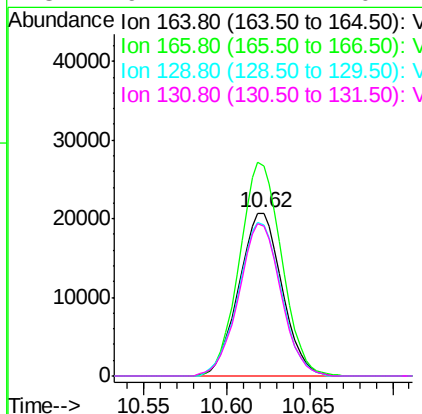
Manual Integrations
APPROVED

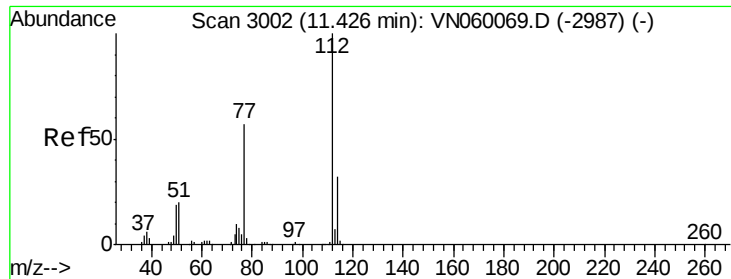
MMDadoda
2/21/2020 9:14:38 AM



#64
Tetrachloroethene
Concen: 18.561 ug/l
RT: 10.62 min Scan# 2752
Delta R.T. 0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	37522		
166	129.1		101.9	152.9
129	93.0		75.4	113.0
131	92.2		71.4	107.2





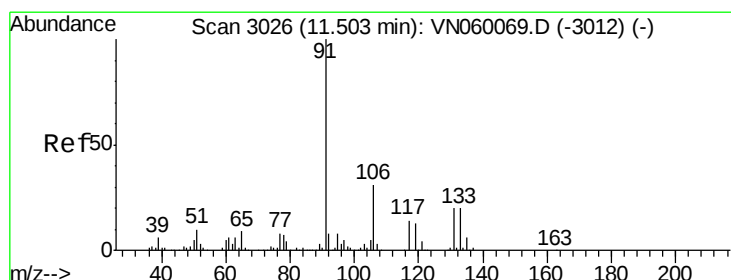
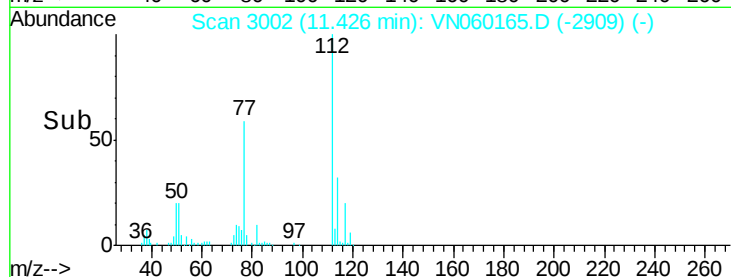
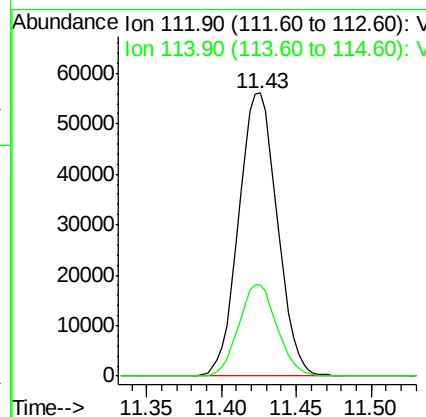
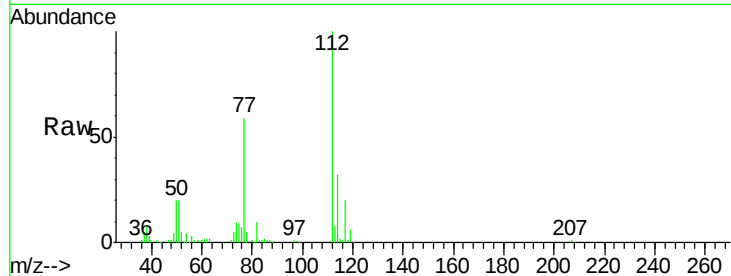
#65
Chlorobenzene
Concen: 18.602 ug/l
RT: 11.43 min Scan# 3002
Delta R.T. 0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0220MBS01

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.3	25.4	38.0

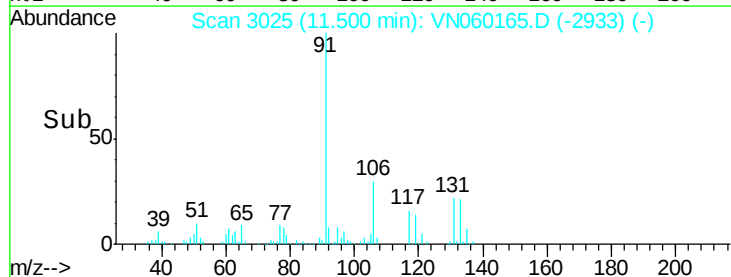
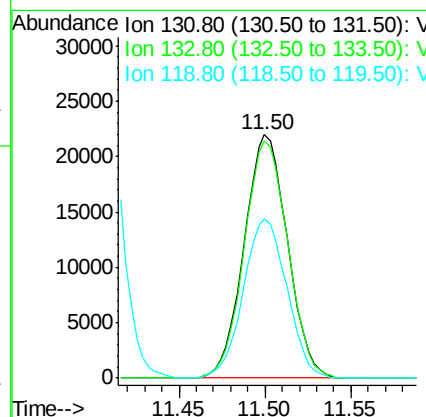
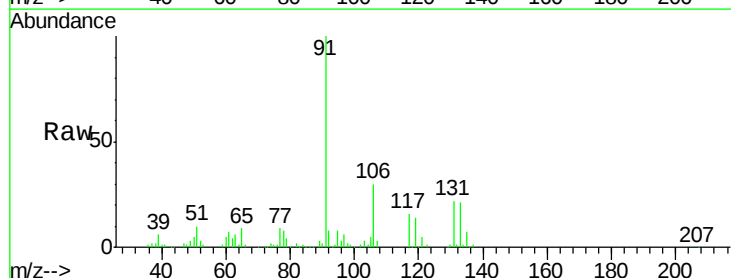
Manual Integrations
APPROVED

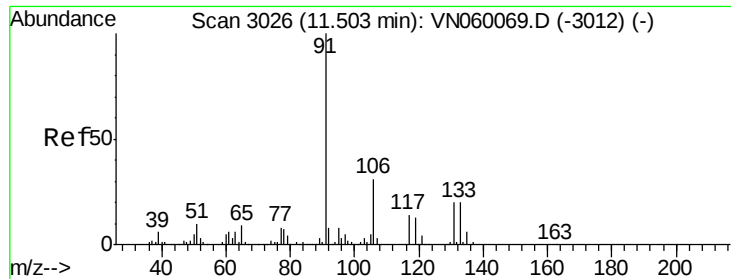
MMDadoda
2/21/2020 9:14:38 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 18.716 ug/l
RT: 11.50 min Scan# 3025
Delta R.T. -0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Tgt Ion	Ratio	Lower	Upper
131	100		
133	97.9	47.9	143.7
119	65.7	32.6	97.7





#67

Ethyl Benzene

Concen: 18.314 ug/l

RT: 11.50 min Scan# 3026

Delta R.T. 0.00 min

Lab File: VN060165.D

Acq: 20 Feb 2020 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0220MBS01

Tot Ion: 91 Resp: 178961

Ion Ratio Lower Upper

91 100

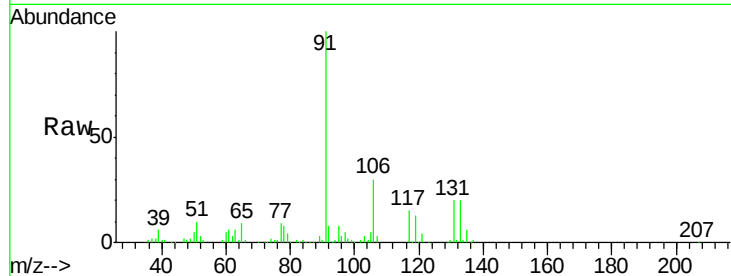
106 30.2 25.1 37.7

Manual Integrations

APPROVED

MMDadoda

2/21/2020 9:14:38 AM



Abundance Ion 91.00 (90.70 to 91.70): VN060165.D (-2933) (-)

Ion 106.00 (105.70 to 106.70): VN060165.D (-2933) (-)

150000

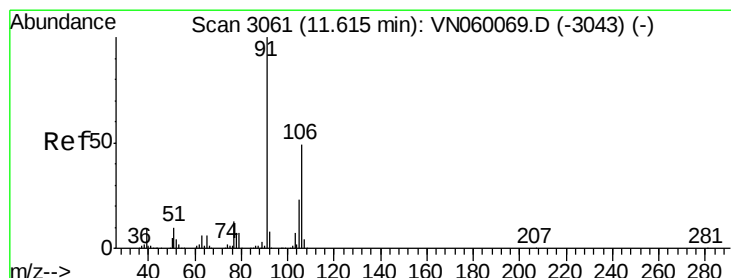
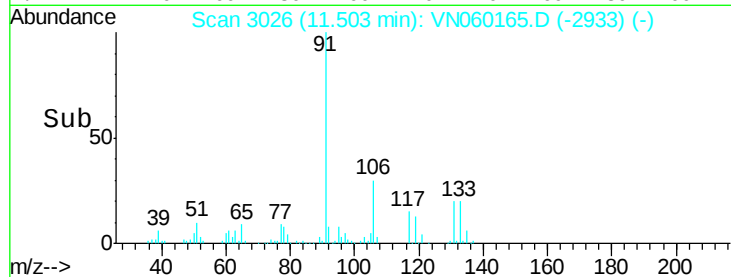
100000

50000

0

11.45 11.50 11.55

Time-->



#68

m/p-Xylenes

Concen: 36.462 ug/l

RT: 11.61 min Scan# 3060

Delta R.T. -0.00 min

Lab File: VN060165.D

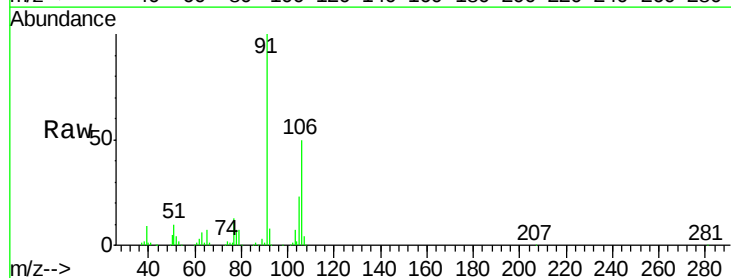
Acq: 20 Feb 2020 12:07

Tgt Ion: 106 Resp: 133721

Ion Ratio Lower Upper

106 100

91 203.2 162.7 244.1



Abundance Ion 106.00 (105.70 to 106.70): VN060165.D (-2968) (-)

Ion 91.00 (90.70 to 91.70): VN060165.D (-2968) (-)

150000

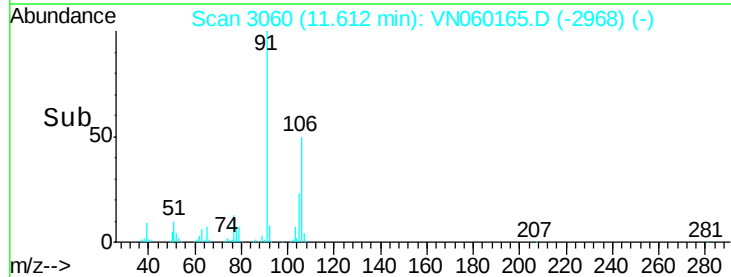
100000

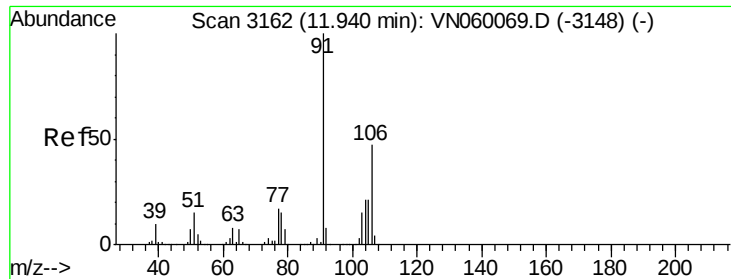
50000

0

11.60 11.61 11.70

Time-->





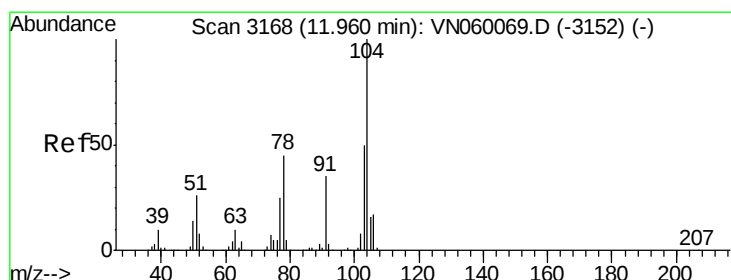
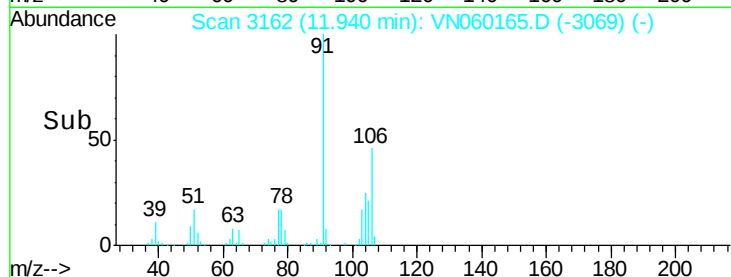
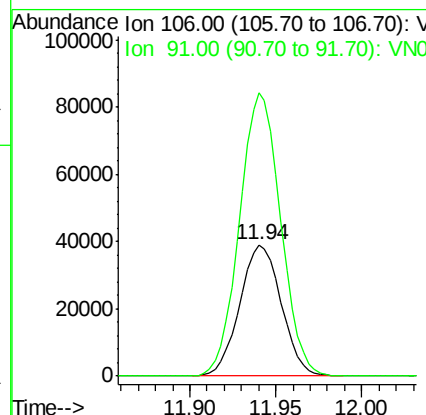
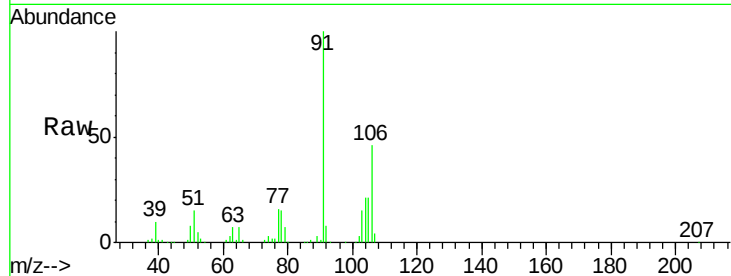
#69
o-Xylene
Concen: 18.559 ug/l
RT: 11.94 min Scan# 3162
Delta R.T. 0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0220MBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	65533		
91	91	214.1		107.2	321.6

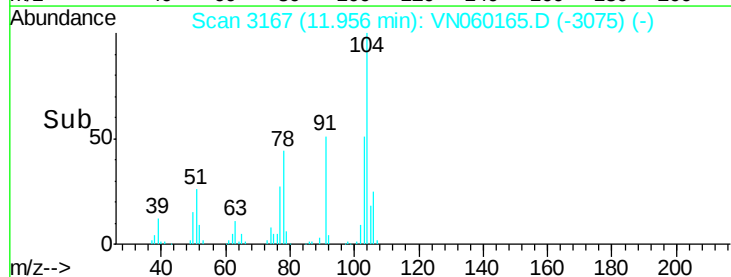
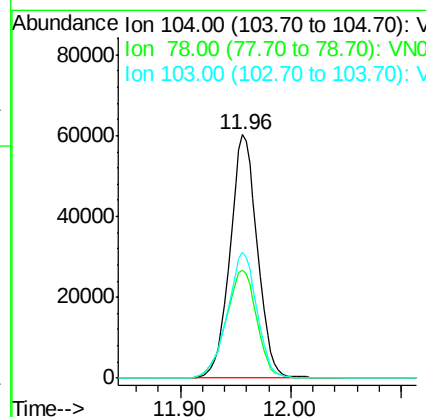
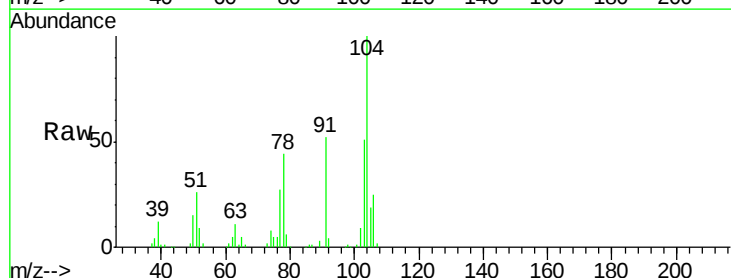
Manual Integrations
APPROVED

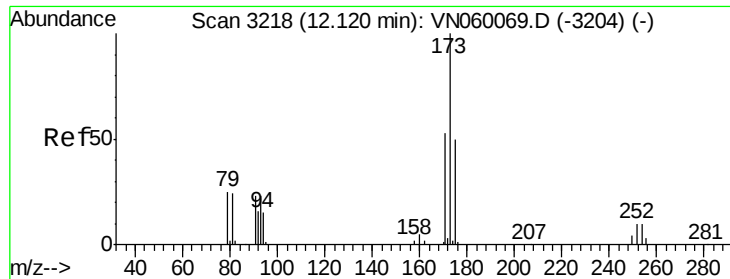
MMDadoda
2/21/2020 9:14:38 AM



#70
Styrene
Concen: 18.146 ug/l
RT: 11.96 min Scan# 3167
Delta R.T. -0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	103328		
78	78	49.8		40.2	60.2
103	103	55.8		44.3	66.5





#71

Bromoform

Concen: 18.566 ug/l

RT: 12.12 min Scan# 3218

Delta R.T. 0.00 min

Lab File: VN060165.D

Acq: 20 Feb 2020 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0220MBS01

Tot Ion:173 Resp: 30606

Ion Ratio Lower Upper

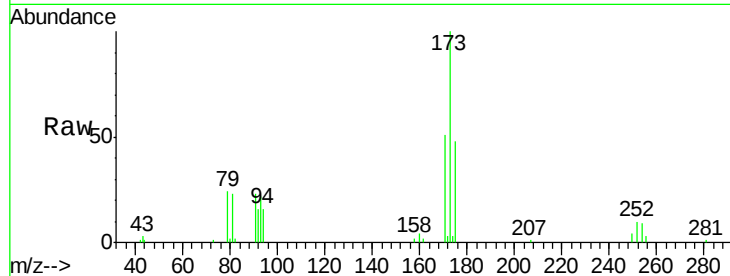
173 100

175 47.5 24.9 74.6

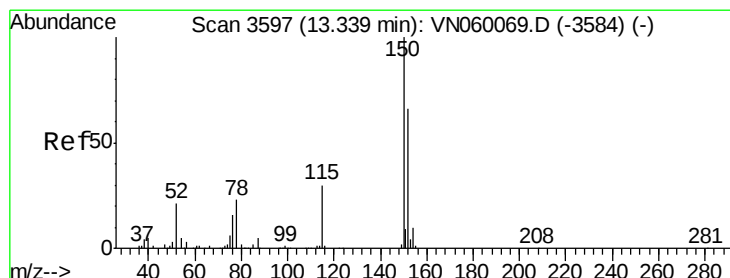
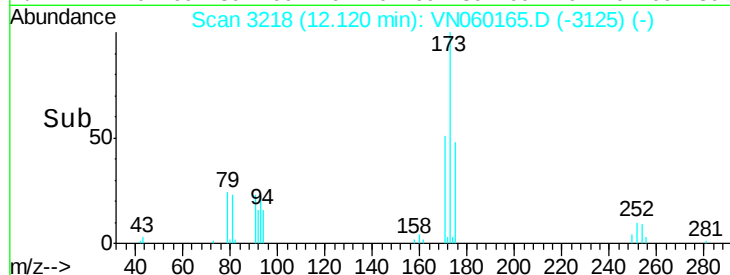
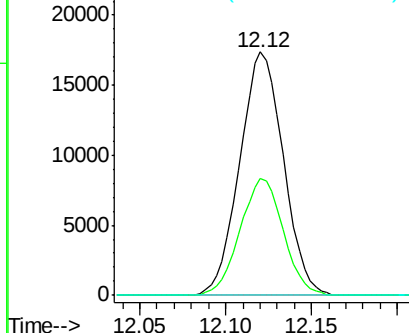
254 0.0 0.0 0.0

Manual Integrations
APPROVED

MMDadoda
2/21/2020 9:14:38 AM



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060165.D

Acq: 20 Feb 2020 12:07

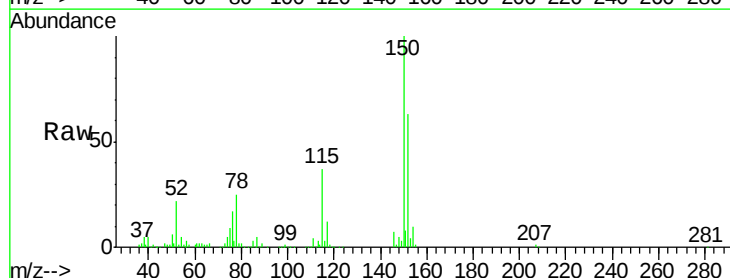
Tgt Ion:152 Resp: 126723

Ion Ratio Lower Upper

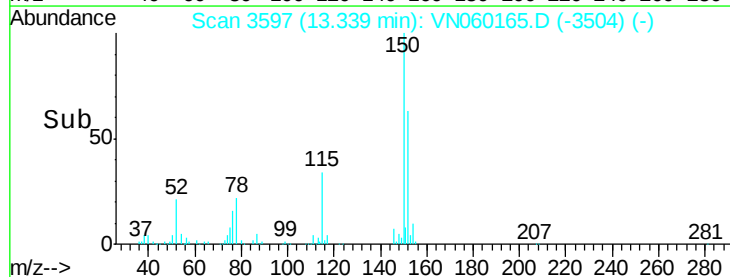
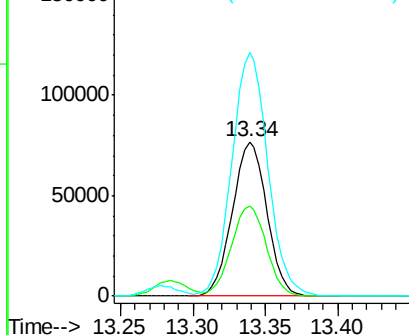
152 100

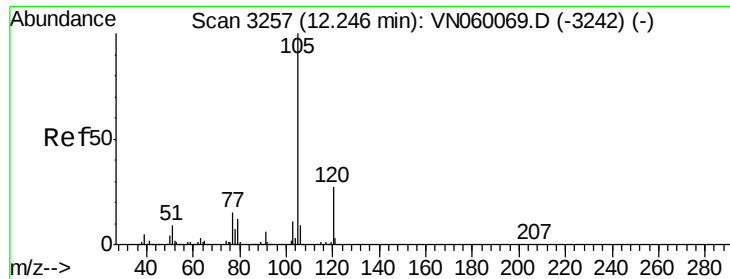
115 59.1 28.9 86.8

150 164.8 0.0 342.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 18.642 ug/l

RT: 12.24 min Scan# 3256

Delta R.T. -0.00 min

Lab File: VN060165.D

Acq: 20 Feb 2020 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0220MBS01

Tot Ion: 105 Resp: 176410

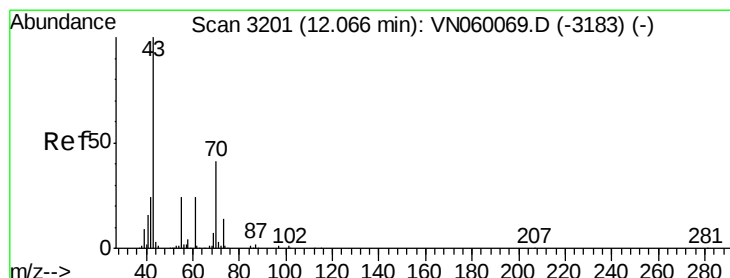
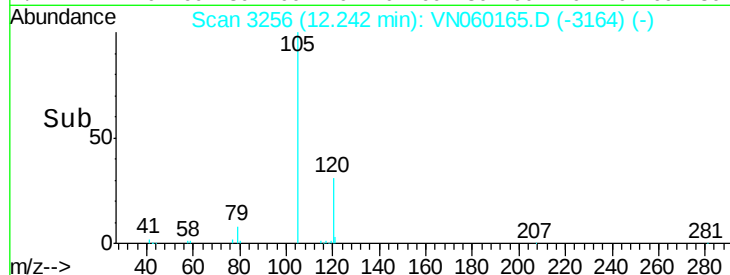
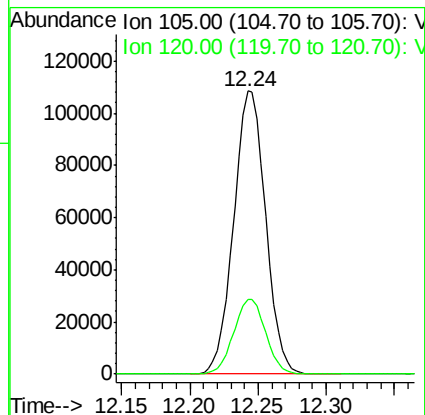
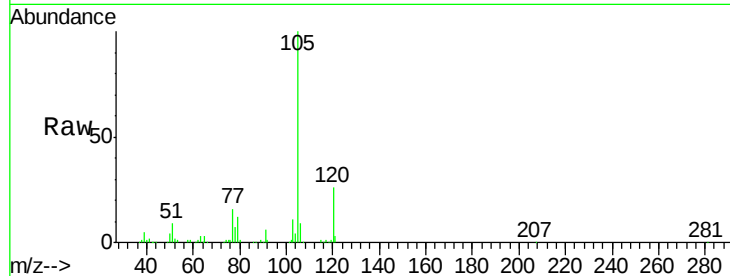
Ion Ratio Lower Upper

105 100

120 26.5 13.3 39.8

Manual Integrations
APPROVED

MMDadoda
2/21/2020 9:14:38 AM



#74

N-ethyl acetate

Concen: 19.359 ug/l

RT: 12.06 min Scan# 3200

Delta R.T. -0.00 min

Lab File: VN060165.D

Acq: 20 Feb 2020 12:07

Tgt Ion: 43 Resp: 66060

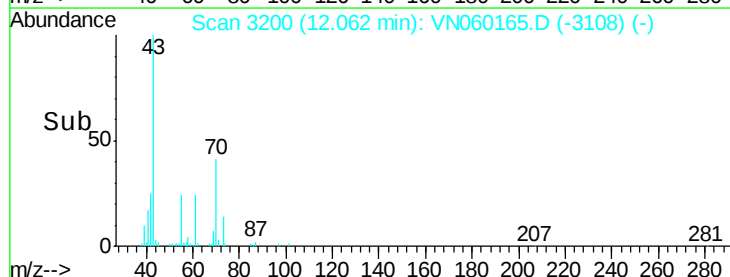
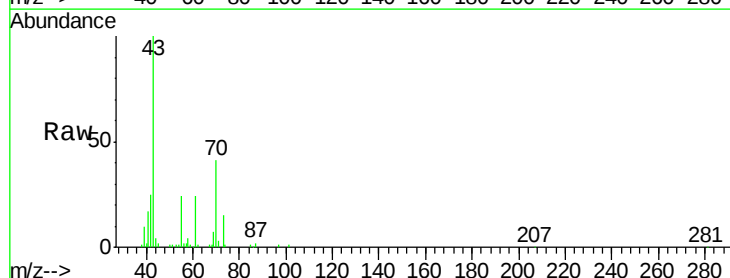
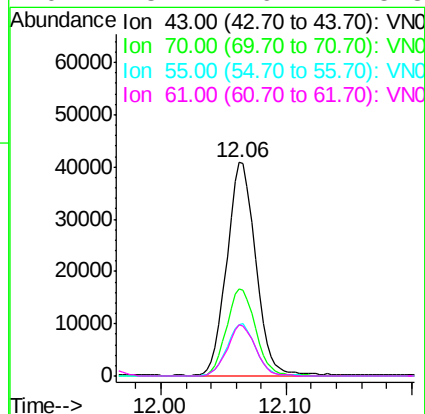
Ion Ratio Lower Upper

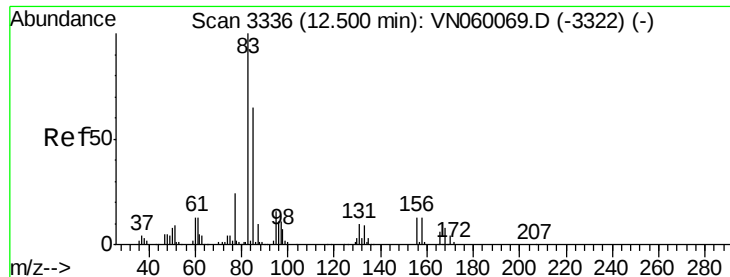
43 100

70 40.6 33.4 50.0

55 24.1 18.8 28.2

61 23.1 19.2 28.8





#75

1,1,2,2-Tetrachloroethane

Concen: 19.581 ug/l

RT: 12.50 min Scan# 3336

Delta R.T. 0.00 min

Lab File: VN060165.D

Acq: 20 Feb 2020 12:07

Instrument :

MSVOA_N

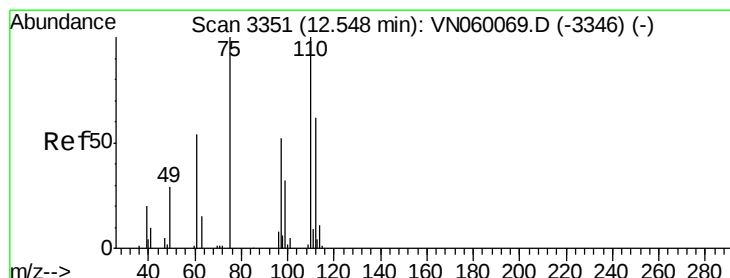
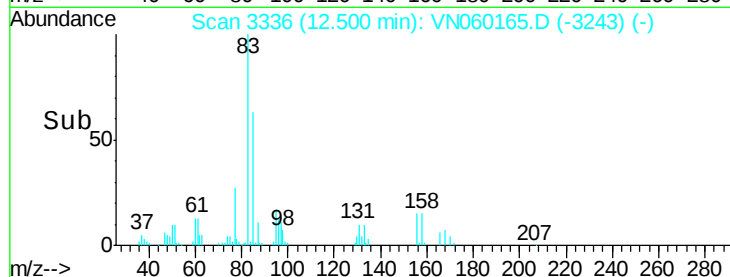
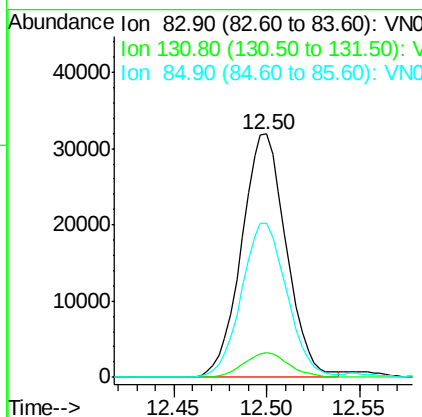
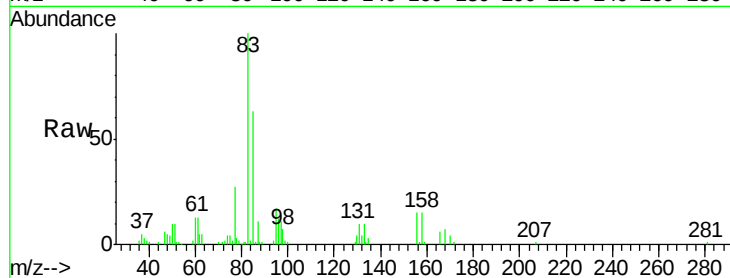
ClientSampleId :

VN0220MBS01

Tot Ion:	83	Resp:	53335
Ion Ratio	Lower	Upper	
83	100		
131	10.2	5.2	15.6
85	64.3	32.3	96.9

Manual Integrations
APPROVED

MMDadoda
2/21/2020 9:14:38 AM



#76

1,2,3-Trichloropropane

Concen: 19.579 ug/l m

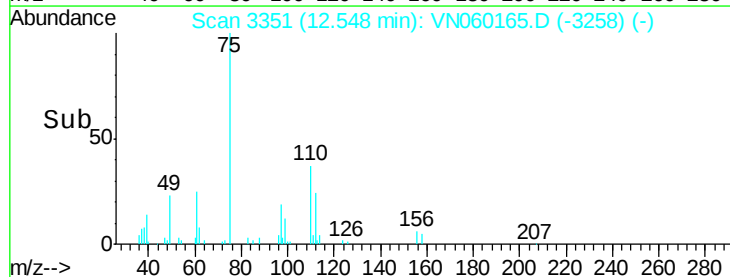
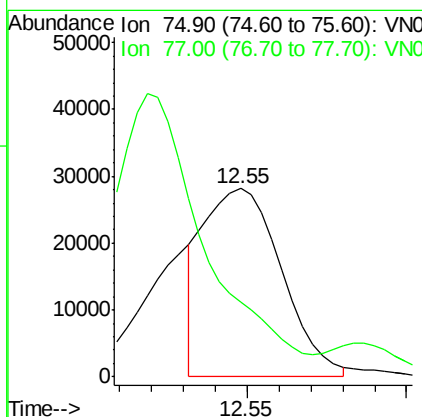
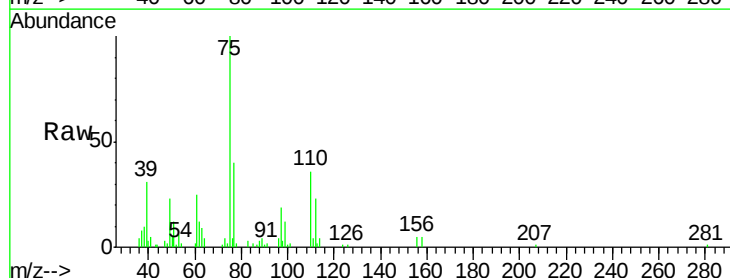
RT: 12.55 min Scan# 3351

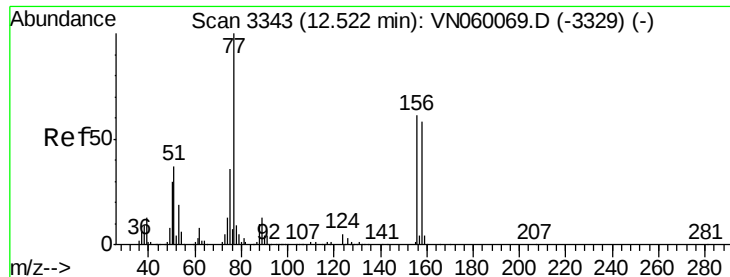
Delta R.T. 0.00 min

Lab File: VN060165.D

Acq: 20 Feb 2020 12:07

Tgt Ion:	75	Resp:	47468
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 18.928 ug/l

RT: 12.52 min Scan# 3342

Delta R.T. -0.00 min

Lab File: VN060165.D

Acq: 20 Feb 2020 12:07

Instrument :

MSVOA_N

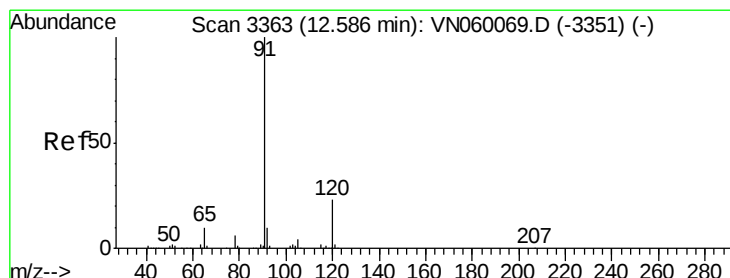
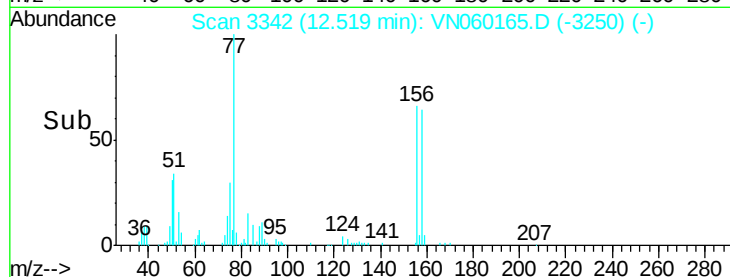
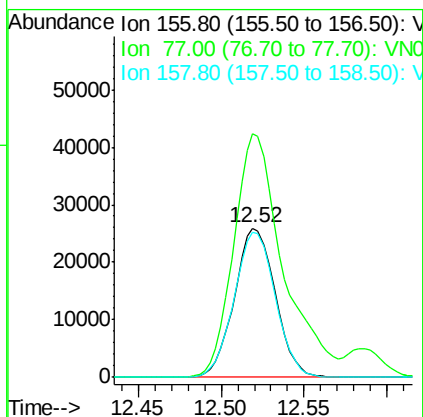
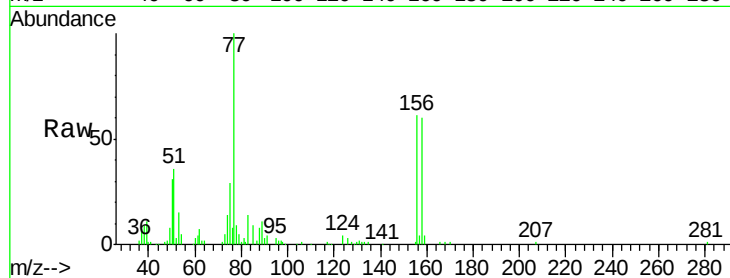
ClientSampleId :

VN0220MBS01

Tot Ion:	156	Resp:	44452
Ion	Ratio	Lower	Upper
156	100		
77	197.3	98.7	296.1
158	98.1	48.1	144.4

Manual Integrations
APPROVED

MMDadoda
2/21/2020 9:14:38 AM



#78

n-propylbenzene

Concen: 18.516 ug/l

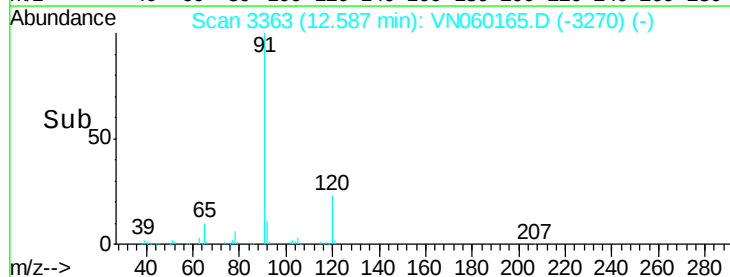
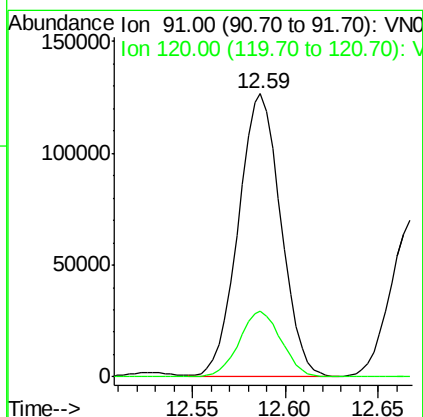
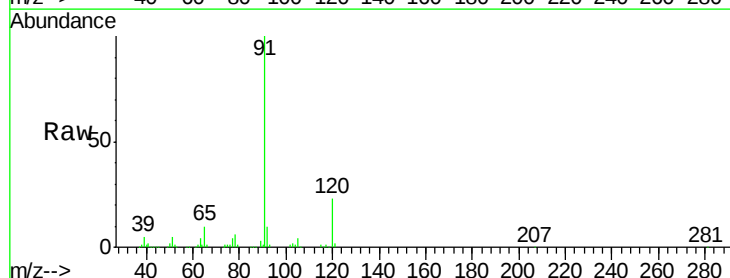
RT: 12.59 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN060165.D

Acq: 20 Feb 2020 12:07

Tgt Ion:	91	Resp:	199629
Ion	Ratio	Lower	Upper
91	100		
120	23.2	11.5	34.5





#79

2-Chlorotoluene

Concen: 18.528 ug/l

RT: 12.67 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VN060165.D

Acq: 20 Feb 2020 12:07

Instrument :

MSVOA_N

ClientSampled :

VN0220MBS01

Tot Ion: 91 Resp: 117415

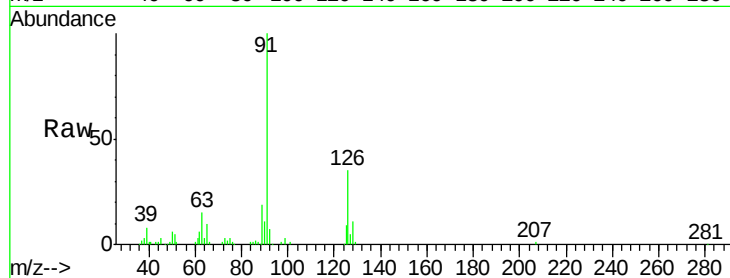
Ion Ratio Lower Upper

91 100

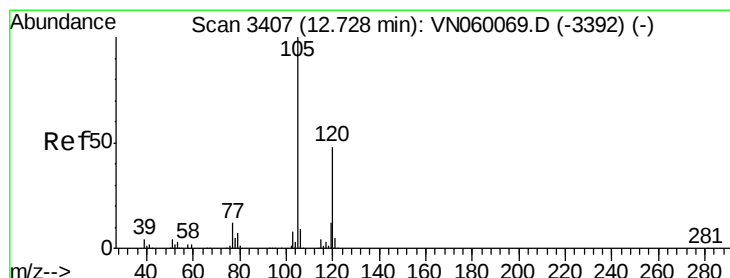
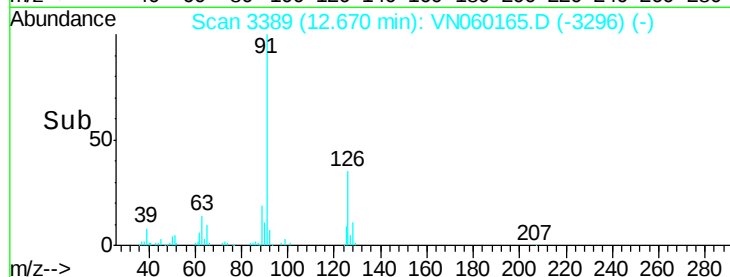
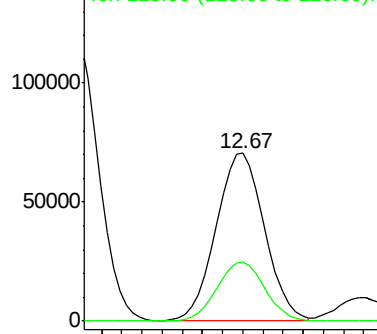
126 35.0 17.4 52.2

Manual Integrations
APPROVED

MMDadoda
2/21/2020 9:14:38 AM



Abundance Ion 91.00 (90.70 to 91.70): VN060069.D (-3376) (-)



#80

1,3,5-Trimethylbenzene

Concen: 18.757 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN060165.D

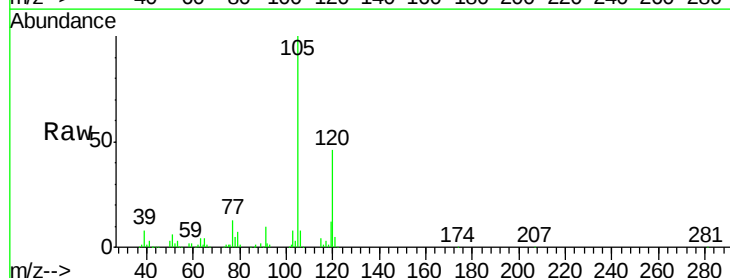
Acq: 20 Feb 2020 12:07

Tgt Ion: 105 Resp: 147580

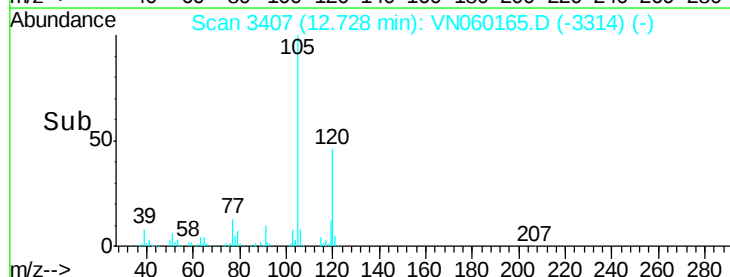
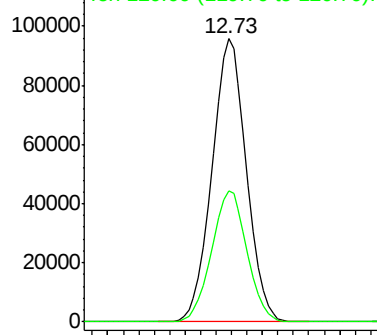
Ion Ratio Lower Upper

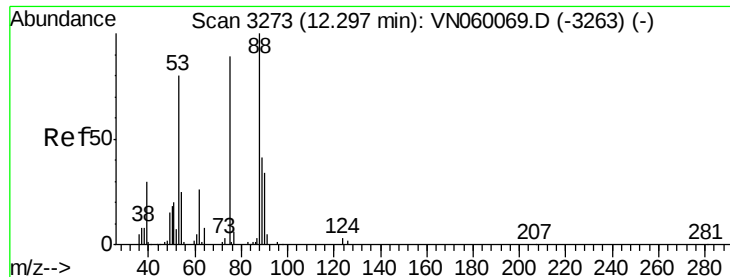
105 100

120 47.4 24.3 72.9



Abundance Ion 105.00 (104.70 to 105.70): VN060069.D (-3392) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 18.884 ug/l

RT: 12.29 min Scan# 3272

Delta R.T. -0.00 min

Lab File: VN060165.D

Acq: 20 Feb 2020 12:07

Instrument :

MSVOA_N

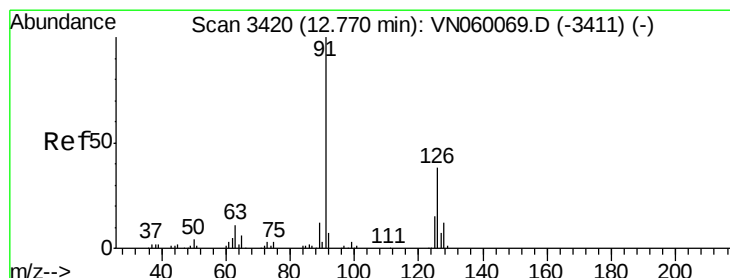
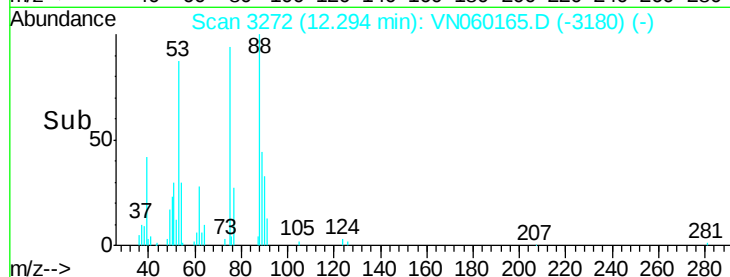
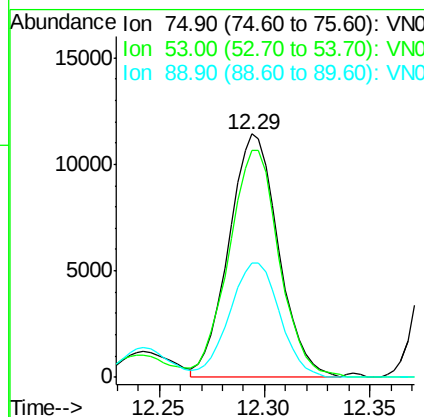
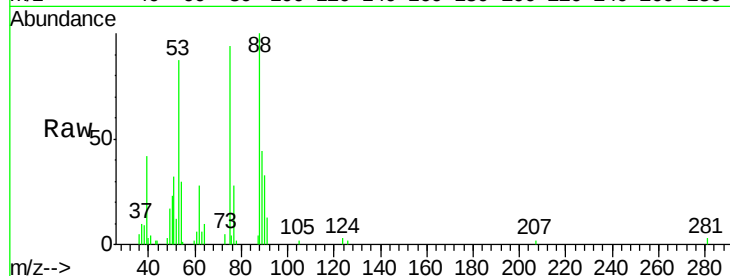
ClientSampleId :

VN0220MBS01

Tot Ion:	75	Resp:	18699
Ion	Ratio	Lower	Upper
75	100		
53	95.0	73.9	110.9
89	47.6	37.0	55.4

Manual Integrations
APPROVED

MMDadoda
2/21/2020 9:14:38 AM



#82

4-Chlorotoluene

Concen: 18.663 ug/l

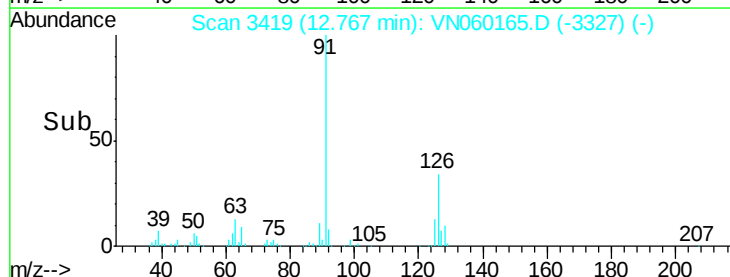
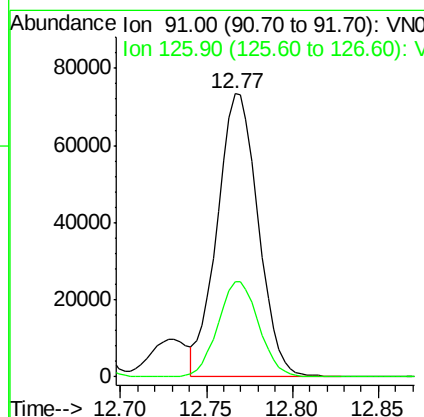
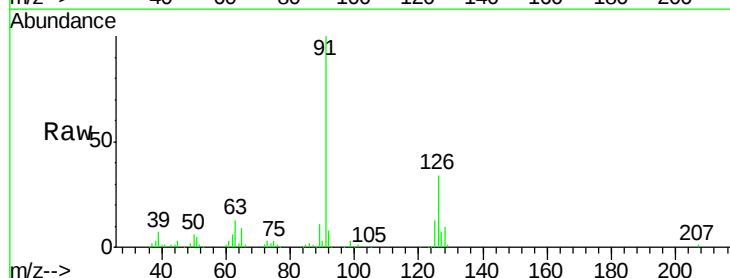
RT: 12.77 min Scan# 3419

Delta R.T. -0.00 min

Lab File: VN060165.D

Acq: 20 Feb 2020 12:07

Tgt Ion:	91	Resp:	121336
Ion	Ratio	Lower	Upper
91	100		
126	33.7	17.1	51.3





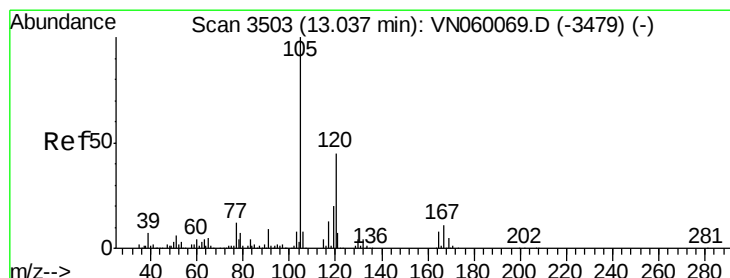
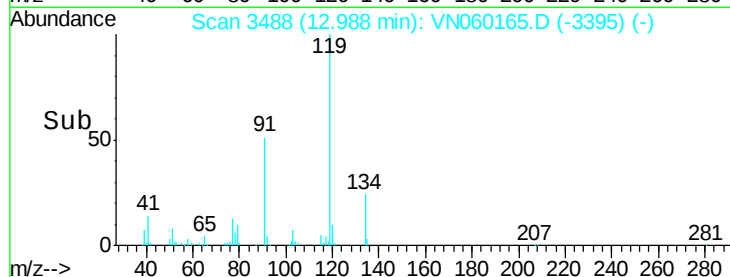
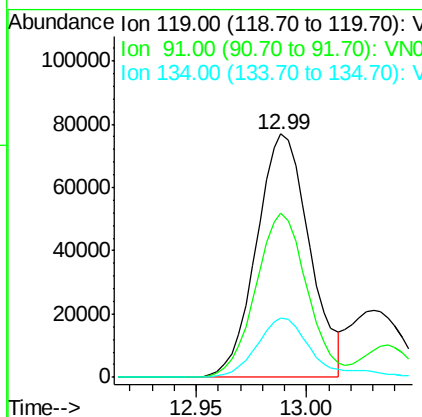
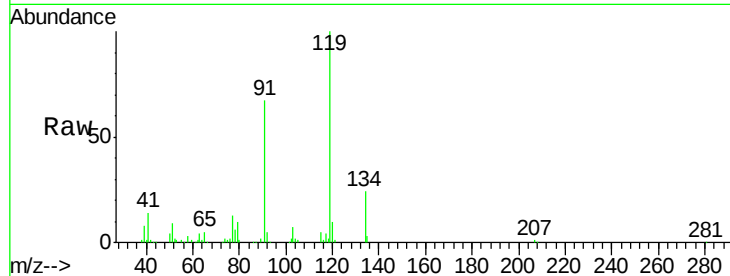
#83
 tert-Butylbenzene
 Concen: 18.394 ug/l
 RT: 12.99 min Scan# 3488
 Delta R.T. 0.00 min
 Lab File: VN060165.D
 Acq: 20 Feb 2020 12:07

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0220MBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	128029		
91	65.3		32.7	98.1
134	25.4		12.9	38.7

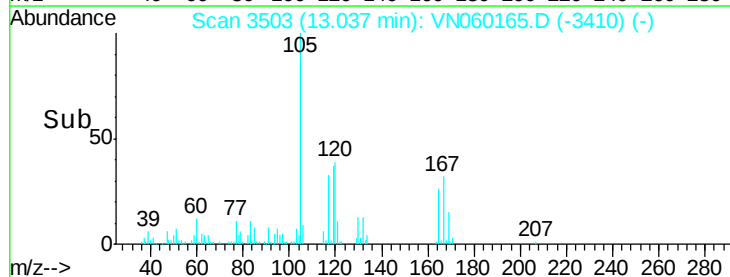
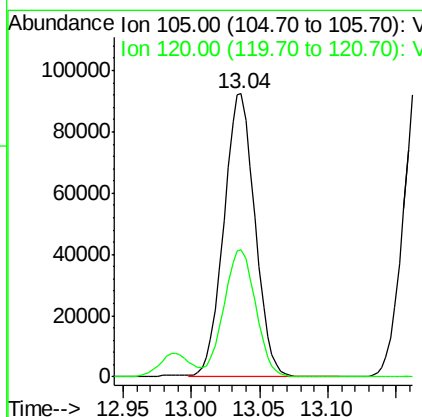
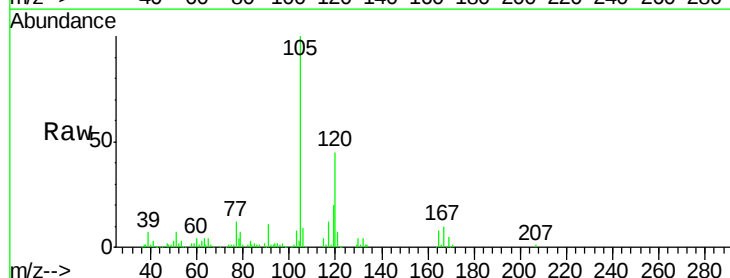
Manual Integrations
 APPROVED

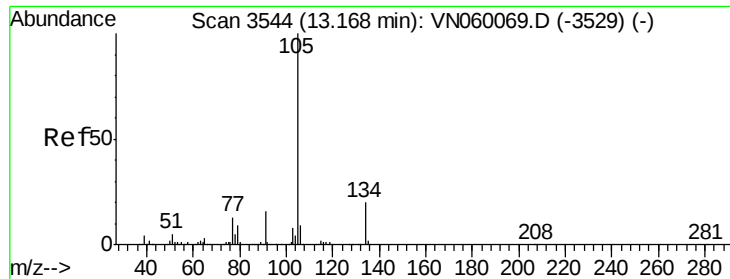
MMDadoda
 2/21/2020 9:14:38 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 18.898 ug/l
 RT: 13.04 min Scan# 3503
 Delta R.T. 0.00 min
 Lab File: VN060165.D
 Acq: 20 Feb 2020 12:07

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	146779		
120	45.8		22.4	67.3





#85

sec-Butylbenzene

Concen: 18.296 ug/l

RT: 13.17 min Scan# 3544

Delta R.T. 0.00 min

Lab File: VN060165.D

Acq: 20 Feb 2020 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0220MBS01

Tot Ion:105 Resp: 168648

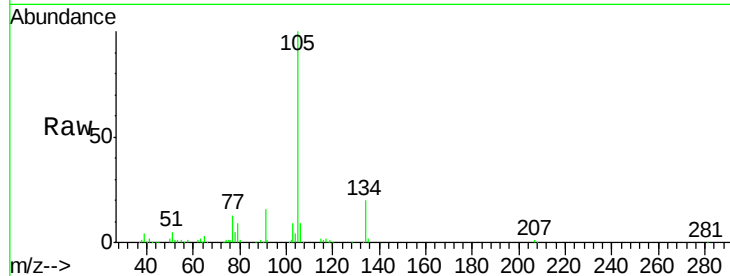
Ion Ratio Lower Upper

105 100

134 20.0 9.9 29.7

Manual Integrations
APPROVED

MMDadoda
2/21/2020 9:14:38 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

120000

100000

80000

60000

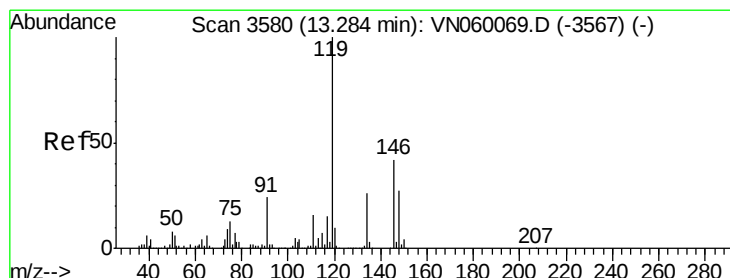
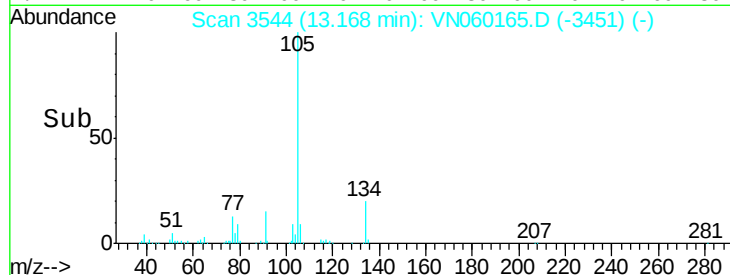
40000

20000

0

13.10 13.15 13.20

Time-->



#86

p-Isopropyltoluene

Concen: 18.685 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN060165.D

Acq: 20 Feb 2020 12:07

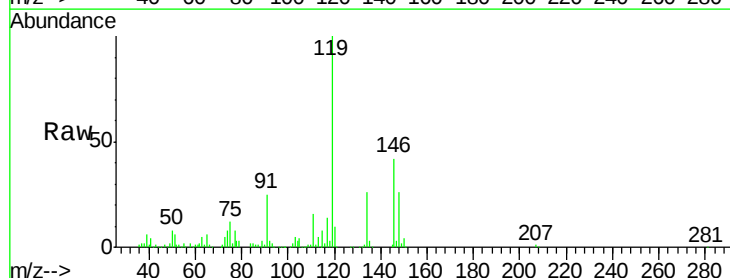
Tgt Ion:119 Resp: 156052

Ion Ratio Lower Upper

119 100

134 25.9 13.3 39.8

91 24.3 11.9 35.9



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

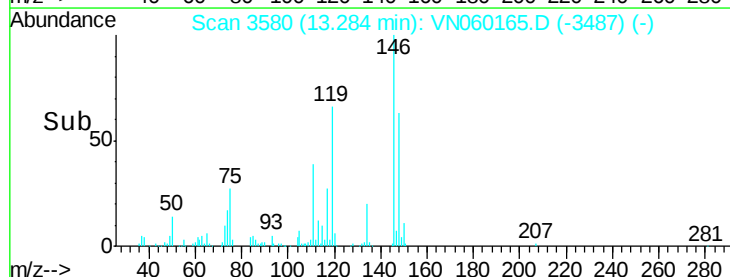
100000

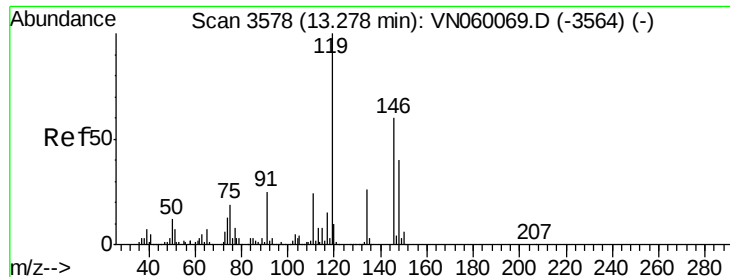
50000

0

13.20 13.25 13.30 13.35

Time-->





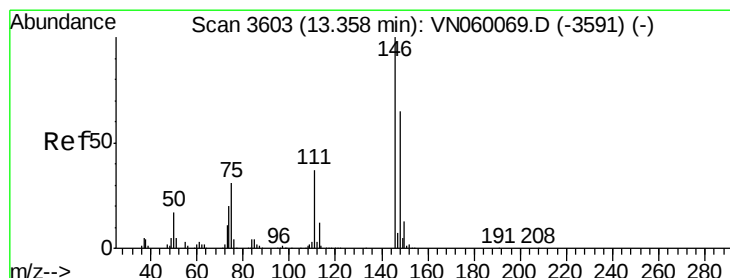
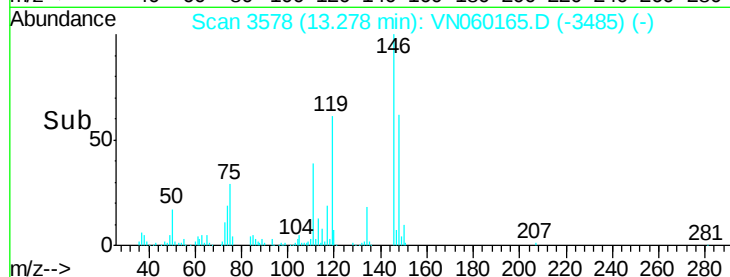
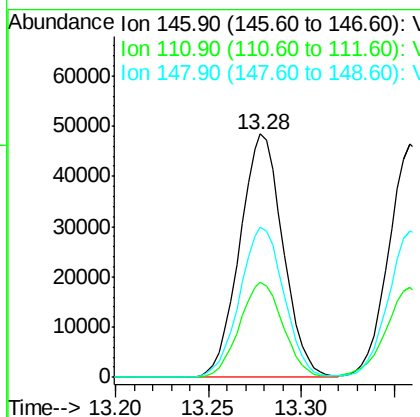
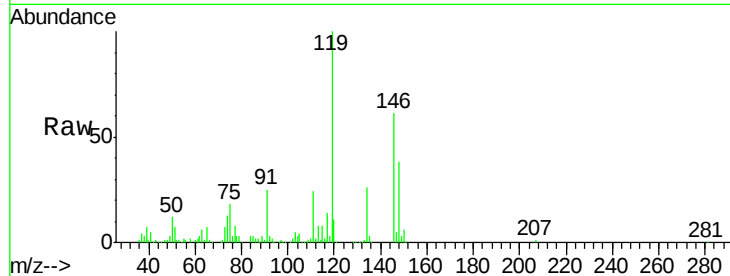
#87
 1,3-Dichlorobenzene
 Concen: 18.850 ug/l
 RT: 13.28 min Scan# 3578
 Delta R.T. 0.00 min
 Lab File: VN060165.D
 Acq: 20 Feb 2020 12:07

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0220MBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.8	59.3
148	62.9	32.0	96.2

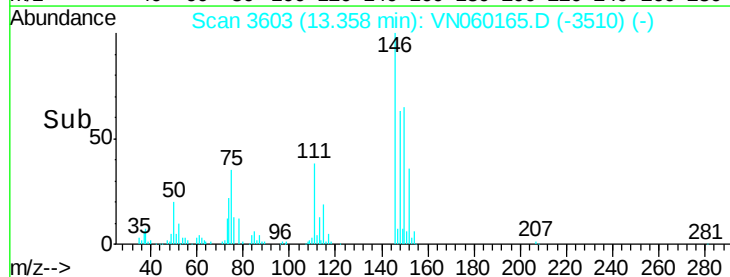
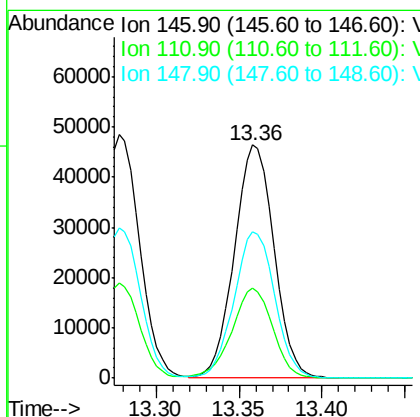
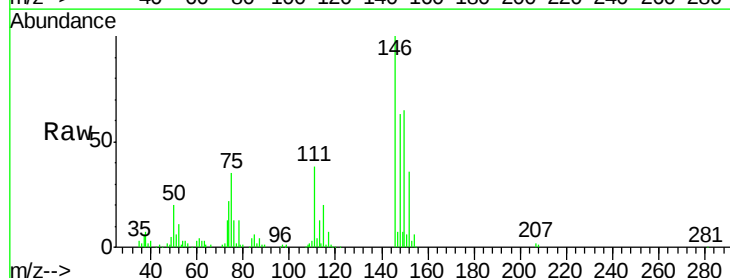
Manual Integrations
 APPROVED

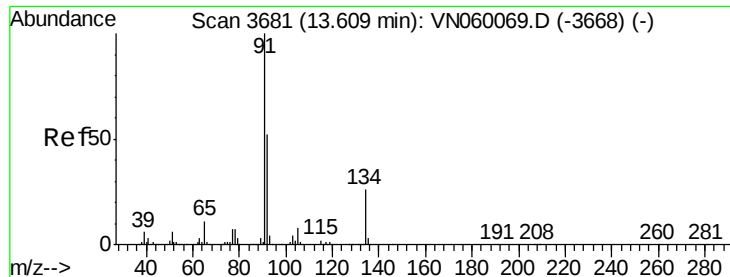
MMDadoda
 2/21/2020 9:14:38 AM



#88
 1,4-Dichlorobenzene
 Concen: 18.596 ug/l
 RT: 13.36 min Scan# 3603
 Delta R.T. 0.00 min
 Lab File: VN060165.D
 Acq: 20 Feb 2020 12:07

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.6	18.9	56.5
148	64.4	32.0	96.0





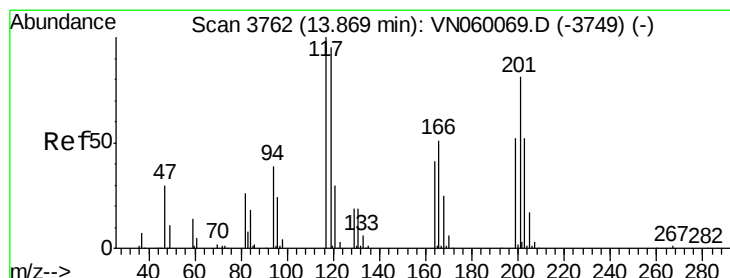
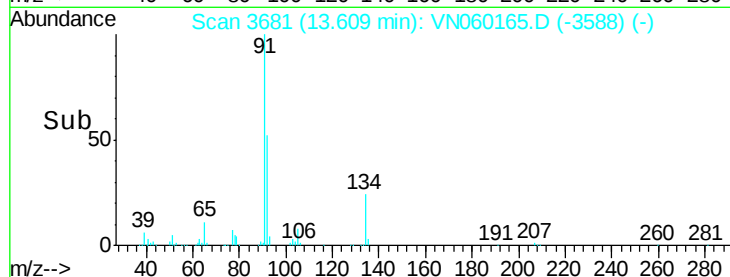
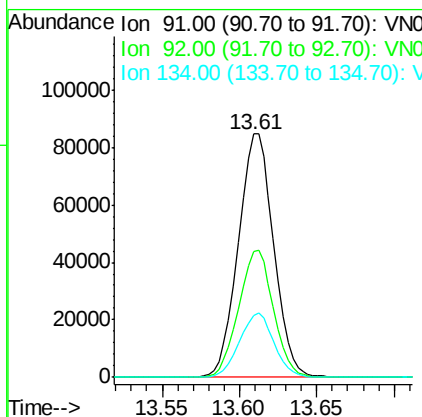
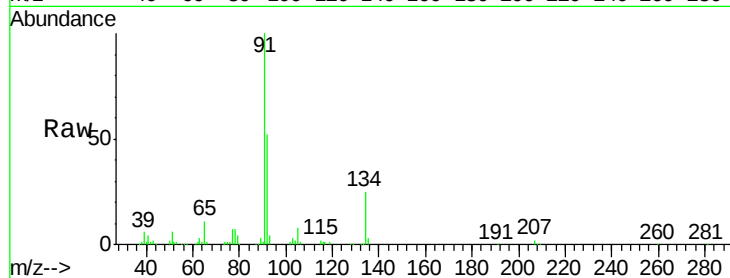
#89
n-Butylbenzene
Concen: 18.328 ug/l
RT: 13.61 min Scan# 3681
Delta R.T. 0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Instrument :
MSVOA_N
ClientSampled :
VN0220MBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.3	26.1	78.2
134	25.8	13.1	39.3

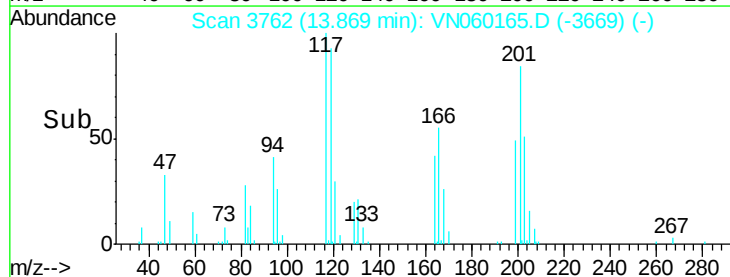
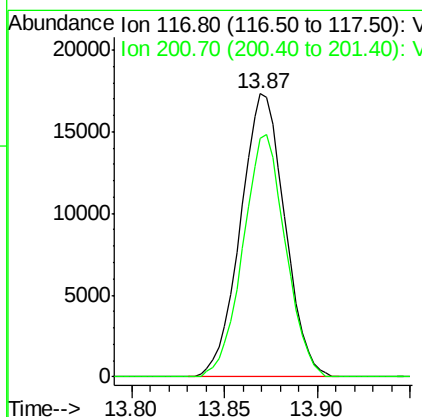
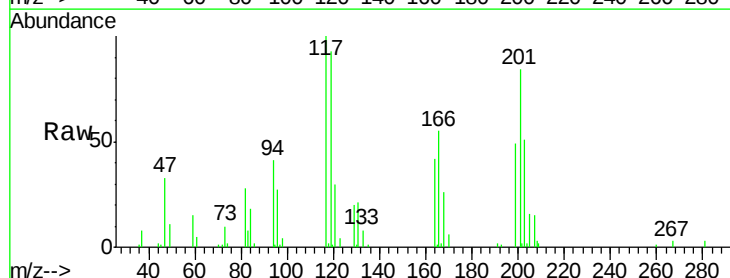
Manual Integrations
APPROVED

MMDadoda
2/21/2020 9:14:38 AM



#90
Hexachloroethane
Concen: 18.407 ug/l
RT: 13.87 min Scan# 3762
Delta R.T. 0.00 min
Lab File: VN060165.D
Acq: 20 Feb 2020 12:07

Tgt Ion	Ratio	Lower	Upper
117	100		
201	81.8	41.7	125.1





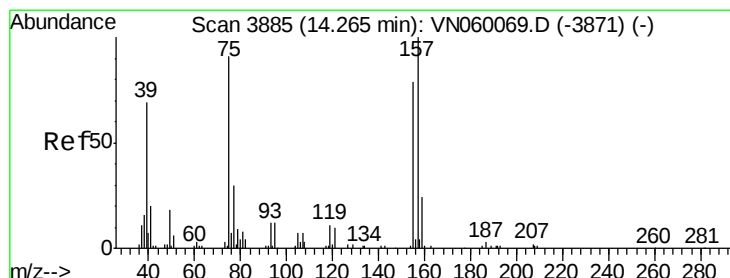
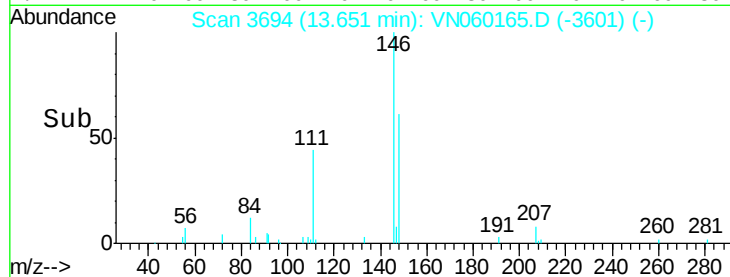
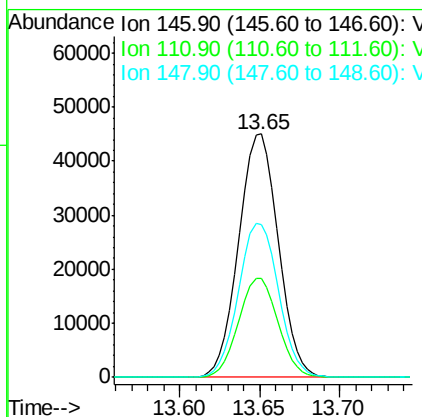
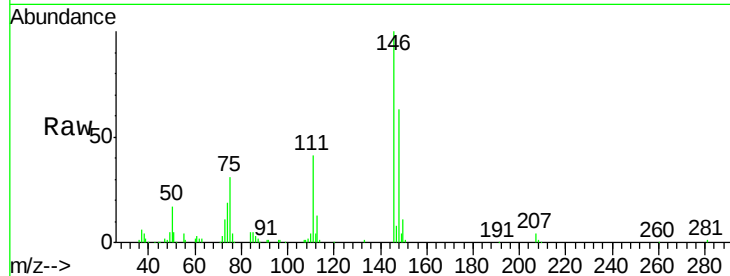
#91
 1,2-Dichlorobenzene
 Concen: 18.732 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN060165.D
 Acq: 20 Feb 2020 12:07

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0220MBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.7	20.1	60.2
148	64.1	31.9	95.5

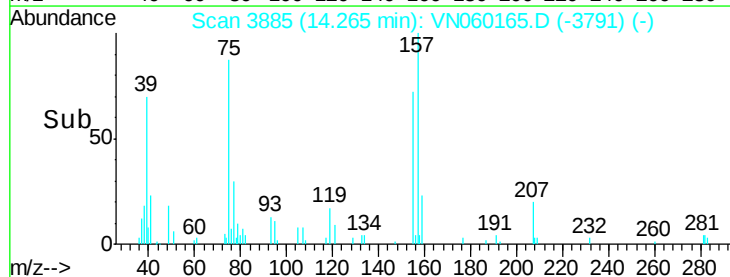
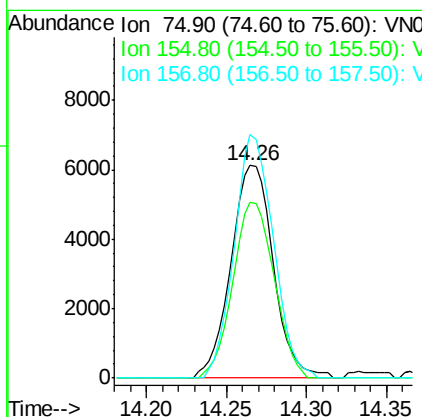
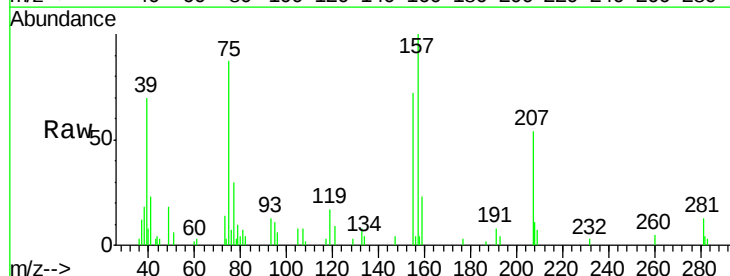
Manual Integrations
 APPROVED

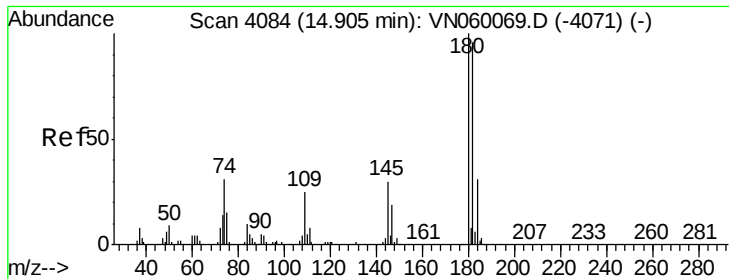
MMDadoda
 2/21/2020 9:14:38 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.614 ug/l
 RT: 14.26 min Scan# 3885
 Delta R.T. 0.00 min
 Lab File: VN060165.D
 Acq: 20 Feb 2020 12:07

Tgt Ion	Ratio	Lower	Upper
75	100		
155	80.3	43.0	129.0
157	105.7	54.9	164.5





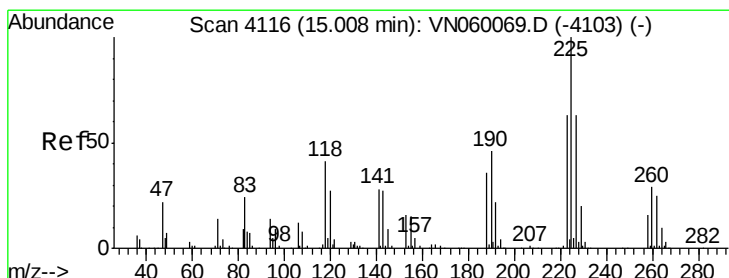
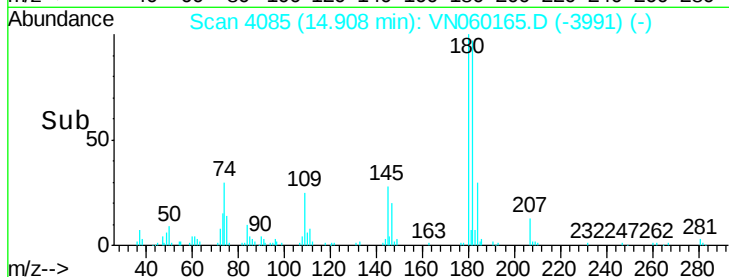
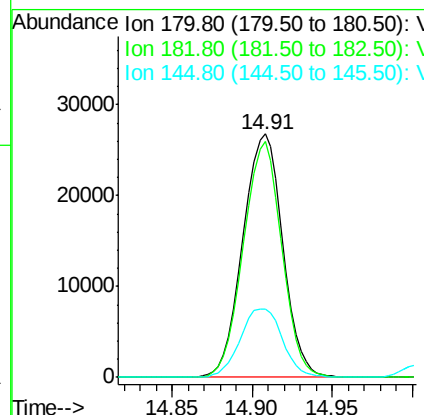
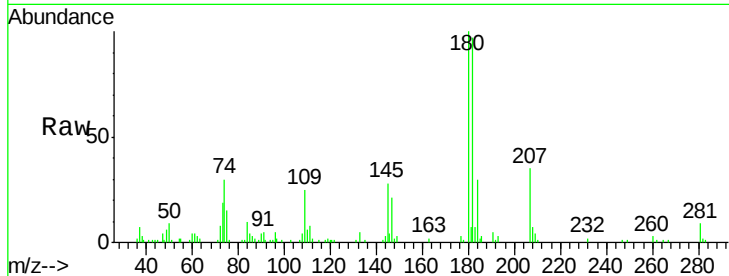
#93
 1,2,4-Trichlorobenzene
 Concen: 19.037 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN060165.D
 Acq: 20 Feb 2020 12:07

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0220MBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.2	47.9	143.8
145	29.9	15.2	45.5

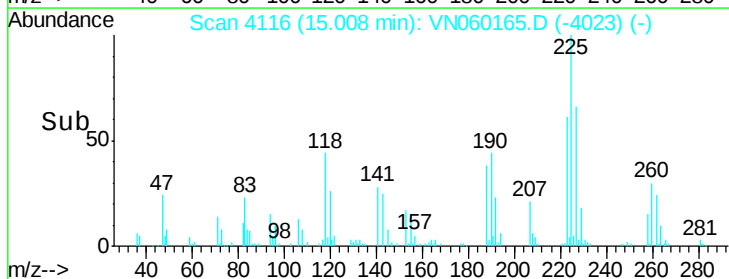
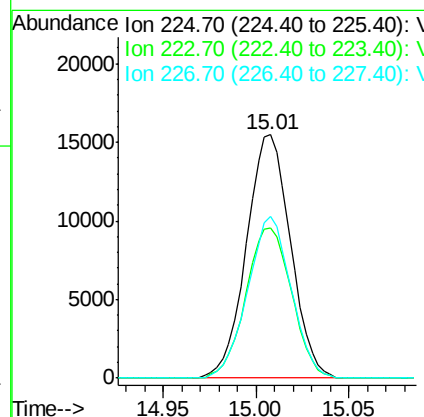
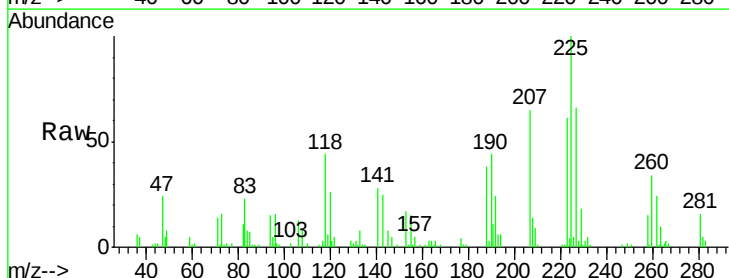
Manual Integrations
 APPROVED

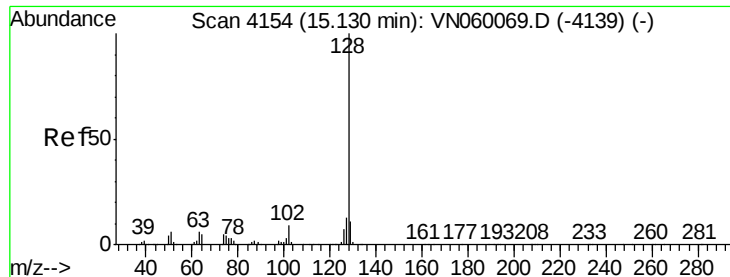
MMDadoda
 2/21/2020 9:14:38 AM



#94
 Hexachlorobutadiene
 Concen: 18.210 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN060165.D
 Acq: 20 Feb 2020 12:07

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.1	31.5	94.5
227	65.3	31.8	95.4





#95

Naphthalene

Concen: 18.666 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN060165.D

Acq: 20 Feb 2020 12:07

Instrument :

MSVOA_N

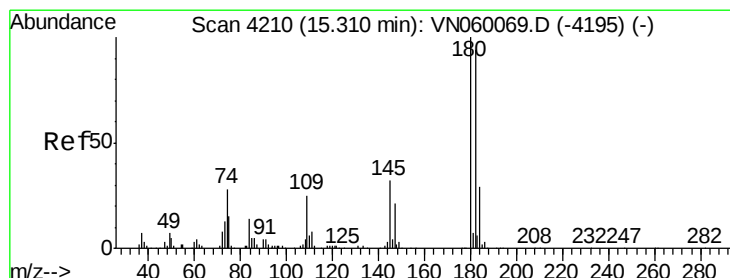
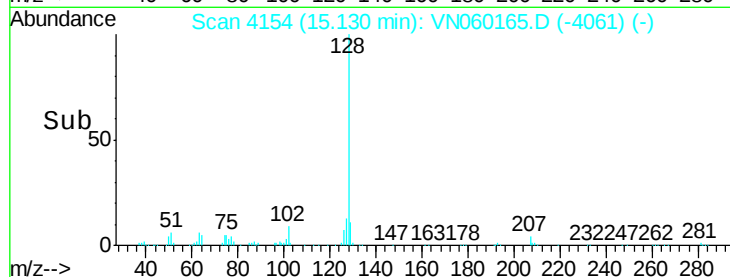
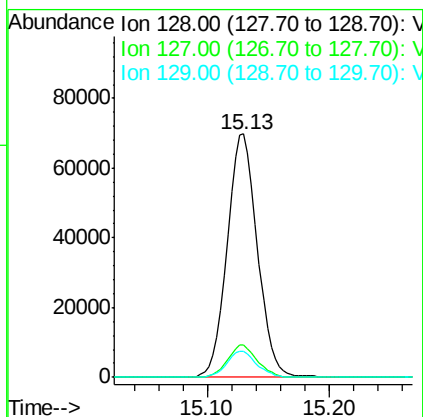
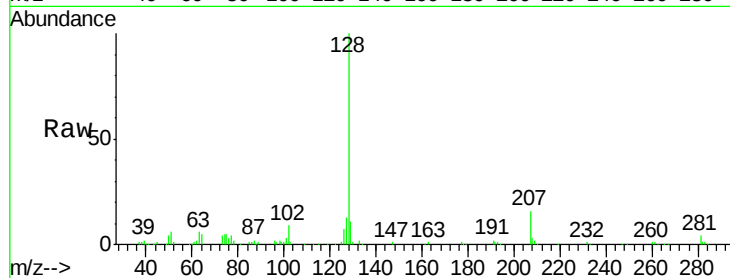
ClientSampleId :

VN0220MBS01

Tot Ion:	128	Resp:	120528
Ion Ratio	Lower	Upper	
128	100		
127	13.0	10.3	15.5
129	10.5	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
2/21/2020 9:14:38 AM



#96

1,2,3-Trichlorobenzene

Concen: 18.877 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. 0.00 min

Lab File: VN060165.D

Acq: 20 Feb 2020 12:07

Tgt Ion:	180	Resp:	44935
Ion Ratio	Lower	Upper	
180	100		
182	93.9	47.5	142.5
145	32.1	16.1	48.3

