

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062119\
 Data File : VN056428.D
 Acq On : 21 Jun 2019 16:02
 Operator : JC/SP
 Sample : VN0621MBSD01
 Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0621MBSD01

Manual Integrations
 APPROVED

MMDadoda
 6/24/2019 4:16:17 PM

Quant Time: Jun 24 09:26:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061919W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 21 03:45:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	364964	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	575102	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	504305	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	197336	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	208367	51.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.02%	
35) Dibromofluoromethane	7.59	113	177490	49.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.94%	
50) Toluene-d8	10.09	98	690070	49.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.86%	
62) 4-Bromofluorobenzene	12.40	95	228266	49.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.10%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	61953	20.047	ug/l	100
3) Chloromethane	2.06	50	79132	18.806	ug/l	99
4) Vinyl Chloride	2.18	62	79050	19.451	ug/l	100
5) Bromomethane	2.53	94	50320m	21.120	ug/l	
6) Chloroethane	2.68	64	45992	19.541	ug/l	99
7) Trichlorofluoromethane	3.00	101	104642	19.905	ug/l	100
8) Diethyl Ether	3.41	74	46088	20.714	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.75	101	65367	19.498	ug/l	99
10) Methyl Iodide	3.95	142	87389	19.286	ug/l	100
11) Tert butyl alcohol	4.80	59	67561	99.169	ug/l	98
12) 1,1-Dichloroethene	3.73	96	64413	19.979	ug/l	99
13) Acrolein	3.60	56	47007	81.867	ug/l	100
14) Allyl chloride	4.32	41	106106	19.771	ug/l	99
15) Acrylonitrile	4.99	53	194524	103.210	ug/l	99
16) Acetone	3.82	43	169125	83.454	ug/l	99
17) Carbon Disulfide	4.05	76	125060	17.054	ug/l	97
18) Methyl Acetate	4.33	43	86872	21.390	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	224796	21.072	ug/l	99
20) Methylene Chloride	4.55	84	77638	19.784	ug/l	97
21) trans-1,2-Dichloroethene	5.04	96	70472	20.274	ug/l	97
22) Diisopropyl ether	5.95	45	232305	20.611	ug/l	97
23) Vinyl Acetate	5.90	43	936040	105.293	ug/l	100
24) 1,1-Dichloroethane	5.85	63	132618	20.497	ug/l	99
25) 2-Butanone	6.84	43	266314	99.290	ug/l	98
26) 2,2-Dichloropropane	6.83	77	77272	17.172	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	85066	20.918	ug/l	98
28) Bromochloromethane	7.19	49	69193	21.621	ug/l	100
29) Tetrahydrofuran	7.21	42	175550	107.102	ug/l	100
30) Chloroform	7.37	83	131580	20.610	ug/l	100
31) Cyclohexane	7.65	56	126383	20.234	ug/l	94
32) 1,1,1-Trichloroethane	7.57	97	102954	20.345	ug/l	99
36) 1,1-Dichloropropene	7.79	75	95133	18.794	ug/l	98
37) Ethyl Acetate	6.93	43	107293	21.568	ug/l	99
38) Carbon Tetrachloride	7.77	117	84149	19.010	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062119\
 Data File : VN056428.D
 Acq On : 21 Jun 2019 16:02
 Operator : JC/SP
 Sample : VN0621MBSD01
 Misc : 5.00µl/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0621MBSD01

Manual Integrations
 APPROVED

MMDadoda
 6/24/2019 4:16:17 PM

Quant Time: Jun 24 09:26:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061919W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 21 03:45:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	118178	18.921	ug/l	100
40) Benzene	8.04	78	311158	19.984	ug/l	99
41) Methacrylonitrile	7.18	41	49374	22.477	ug/l #	82
42) 1,2-Dichloroethane	8.12	62	101893	19.829	ug/l	99
43) Isopropyl Acetate	8.17	43	158291	20.636	ug/l	99
44) Trichloroethene	8.83	130	82657	19.707	ug/l	99
45) 1,2-Dichloropropane	9.12	63	84008	20.174	ug/l	98
46) Dibromomethane	9.21	93	52294	20.073	ug/l	98
47) Bromodichloromethane	9.40	83	89268	19.320	ug/l	98
48) Methyl methacrylate	9.20	41	76306	19.851	ug/l	99
49) 1,4-Dioxane	9.20	88	31432	394.034	ug/l	94
51) 4-Methyl-2-Pentanone	9.99	43	506263	102.256	ug/l	99
52) Toluene	10.16	92	191035	20.068	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	90731	18.776	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	109509	19.681	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	79297	20.723	ug/l	98
56) Ethyl methacrylate	10.43	69	115773	20.703	ug/l	98
57) 1,3-Dichloropropane	10.71	76	131274	20.422	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	208864	103.967	ug/l	98
59) 2-Hexanone	10.75	43	358934	98.642	ug/l	100
60) Dibromochloromethane	10.90	129	66097	18.387	ug/l	99
61) 1,2-Dibromoethane	11.00	107	79452	20.330	ug/l	98
64) Tetrachloroethene	10.63	164	84204	21.084	ug/l	96
65) Chlorobenzene	11.43	112	202783	20.011	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	68973	20.139	ug/l	98
67) Ethyl Benzene	11.51	91	357712	20.105	ug/l	100
68) m/p-Xylenes	11.62	106	264850	40.617	ug/l	100
69) o-Xylene	11.95	106	133477	20.691	ug/l	98
70) Styrene	11.96	104	216384	20.985	ug/l	100
71) Bromoform	12.13	173	44161	18.122	ug/l #	98
73) Isopropylbenzene	12.25	105	350022	22.116	ug/l	100
74) N-amyl acetate	12.07	43	133700	21.288	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.50	83	108918	22.016	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	87592m	21.407	ug/l	
77) Bromobenzene	12.53	156	116566	26.418	ug/l	73
78) n-propylbenzene	12.59	91	366056	20.256	ug/l	99
79) 2-Chlorotoluene	12.67	91	228226	21.595	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	285899	21.744	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	21068	18.300	ug/l	95
82) 4-Chlorotoluene	12.77	91	211708	19.841	ug/l	99
83) tert-Butylbenzene	12.99	119	257262	22.241	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	272284	20.496	ug/l	99
85) sec-Butylbenzene	13.17	105	322873	20.328	ug/l	100
86) p-Isopropyltoluene	13.29	119	278177	20.407	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	135878	20.320	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	126324	19.506	ug/l	99
89) n-Butylbenzene	13.61	91	193133	18.716	ug/l	100
90) Hexachloroethane	13.87	117	39212	18.451	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	137063	20.660	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	14194	19.439	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062119\
Data File : VN056428.D
Acq On : 21 Jun 2019 16:02
Operator : JC/SP
Sample : VN0621MBSD01
Misc : 5.00µ/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0621MBSD01

Manual Integrations
APPROVED

MMDadoda
6/24/2019 4:16:17 PM

Quant Time: Jun 24 09:26:48 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061919W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 21 03:45:40 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	49551	18.346	ug/l	96
94) Hexachlorobutadiene	15.01	225	48693	20.552	ug/l	98
95) Naphthalene	15.13	128	150856	20.199	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	60204	19.792	ug/l	96

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

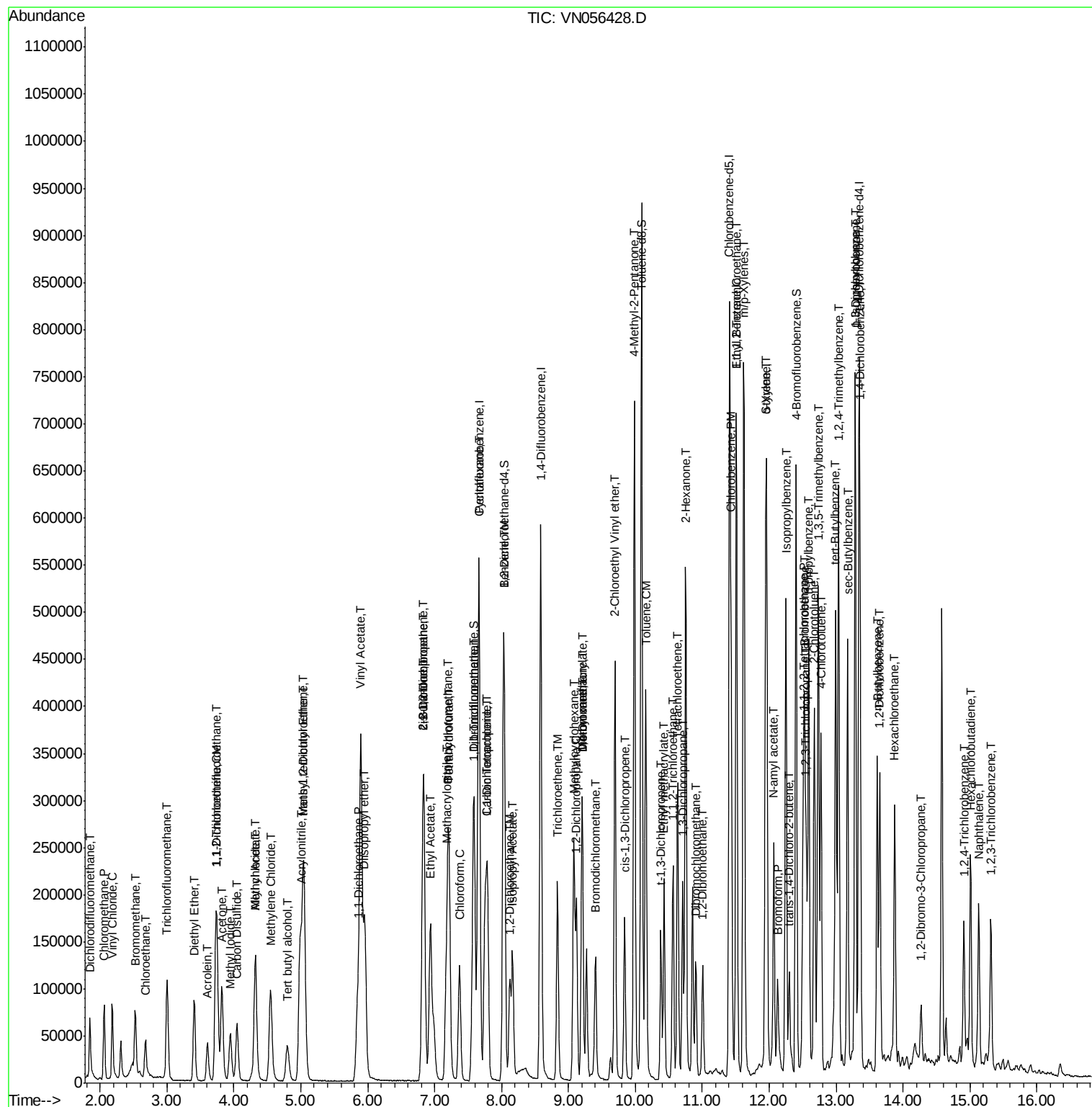
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062119\
Data File : VN056428.D
Acq On : 21 Jun 2019 16:02
Operator : JC/SP
Sample : VN0621MBS01
Misc : 5.00µL/10mL/100µL/5.00mL/MSVOA_N/MEOH
ALS Vial : 19 Sample Multiplier: 1

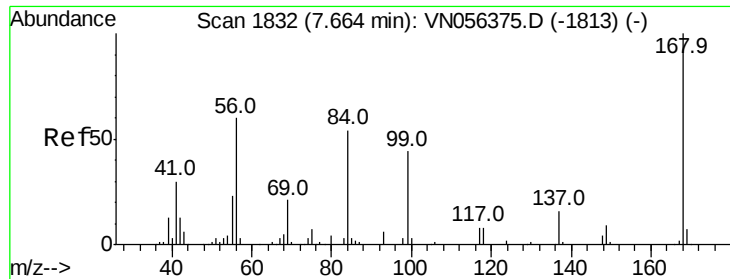
Instrument :
MSVOA_N
Client Sample ID :
VN0621MBS01

Manual Integrations
APPROVED

MMDadoda
6/24/2019 4:16:17 PM

Quant Time: Jun 24 09:26:48 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061919W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 21 03:45:40 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056428.D

Acq: 21 Jun 2019 16:02

Instrument :

MSVOA_N

ClientSampleId :

VN0621MBSD01

Tot Ion:168 Resp: 364964

Ion Ratio Lower Upper

168 100

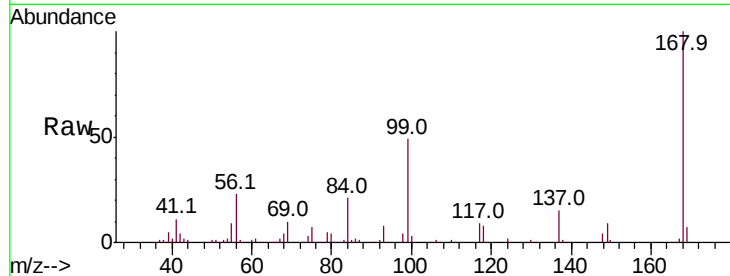
99 48.7 40.6 61.0

Manual Integrations

APPROVED

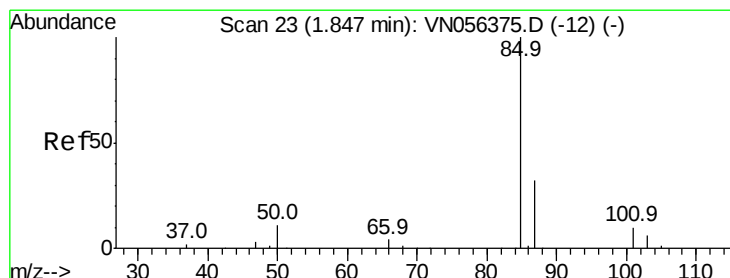
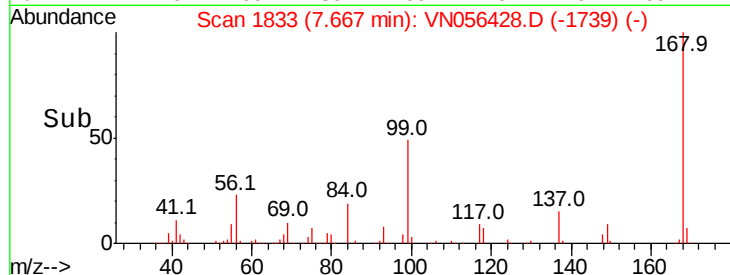
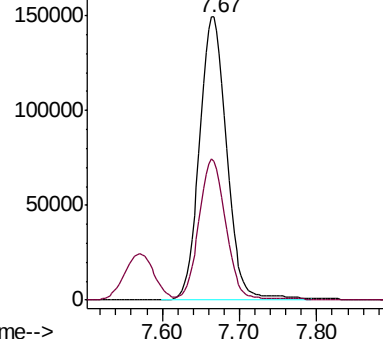
MMDadoda

6/24/2019 4:16:17 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 20.047 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN056428.D

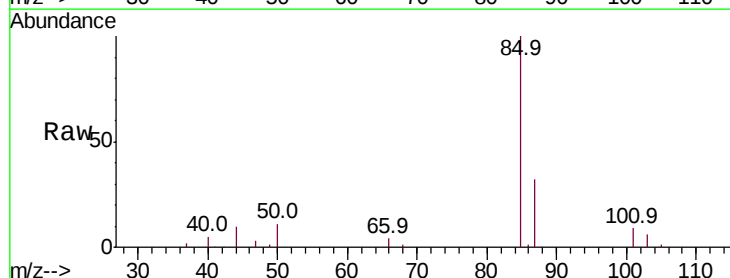
Acq: 21 Jun 2019 16:02

Tgt Ion: 85 Resp: 61953

Ion Ratio Lower Upper

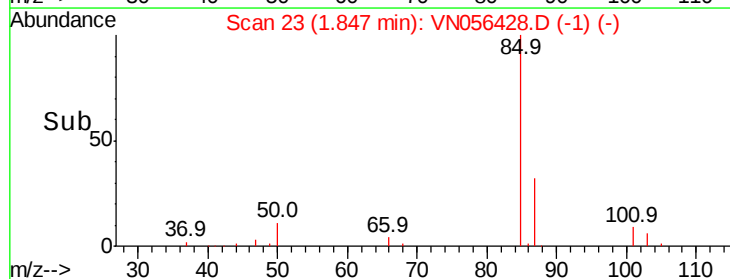
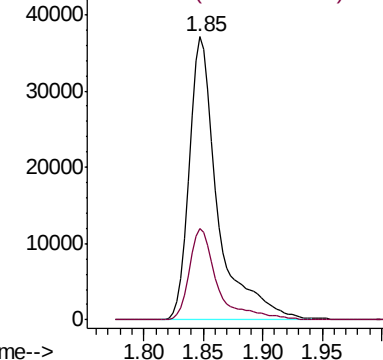
85 100

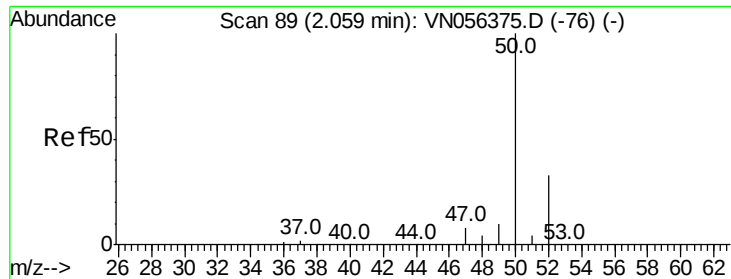
87 32.2 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 18.806 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN056428.D

Acq: 21 Jun 2019 16:02

Instrument :

MSVOA_N

ClientSampleId :

VN0621MBSD01

Tot Ion: 50 Resp: 79132

Ion Ratio Lower Upper

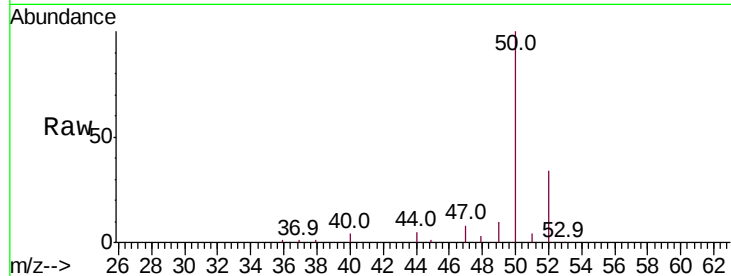
50 100

52 33.5 26.5 39.7

Manual Integrations
APPROVED

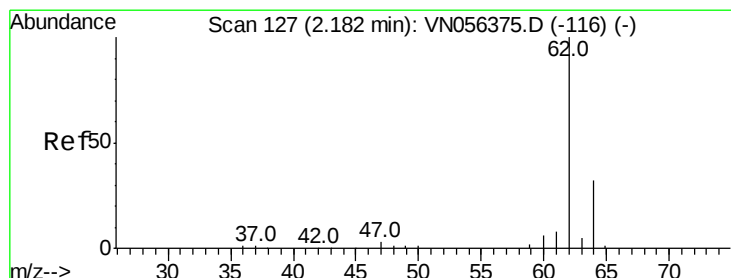
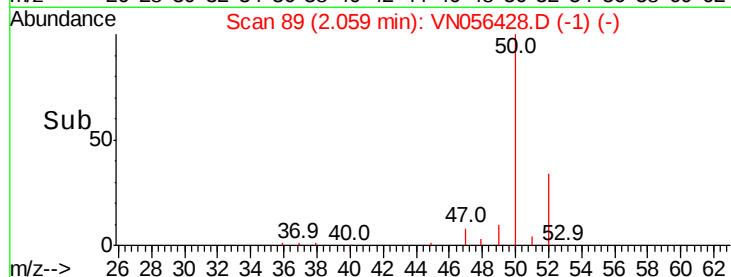
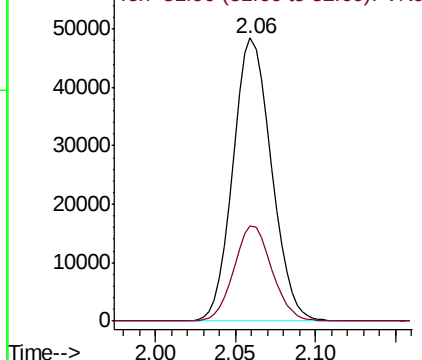
MMDadoda

6/24/2019 4:16:17 PM



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 19.451 ug/l

RT: 2.18 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN056428.D

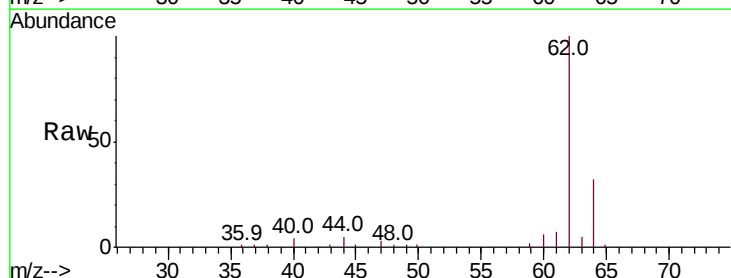
Acq: 21 Jun 2019 16:02

Tgt Ion: 62 Resp: 79050

Ion Ratio Lower Upper

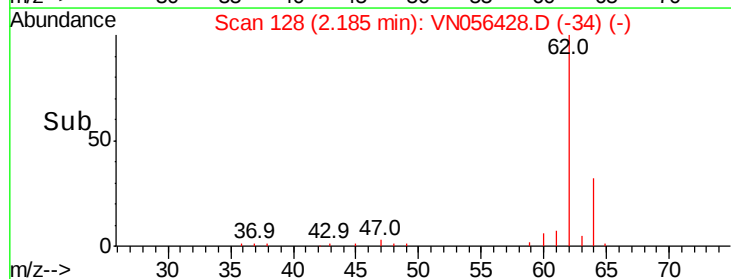
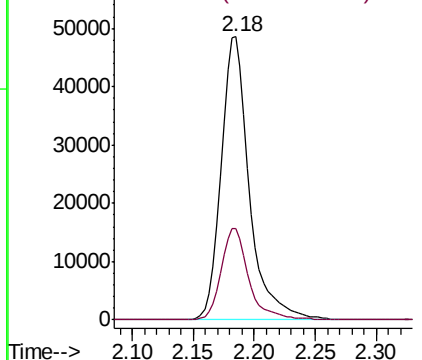
62 100

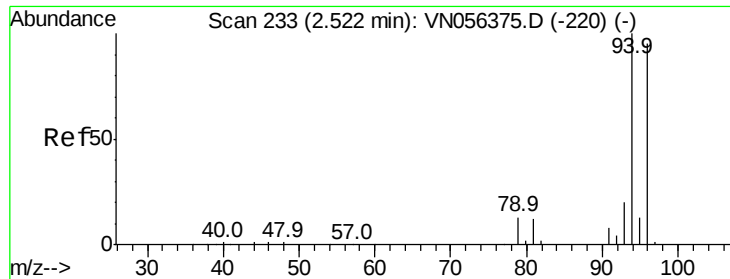
64 32.2 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 21.120 ug/l m

RT: 2.53 min Scan# 234

Delta R.T. 0.00 min

Lab File: VN056428.D

Acq: 21 Jun 2019 16:02

Instrument :

MSVOA_N

ClientSampleId :

VN0621MBSD01

Tot Ion: 94 Resp: 50320

Ion Ratio Lower Upper

94 100

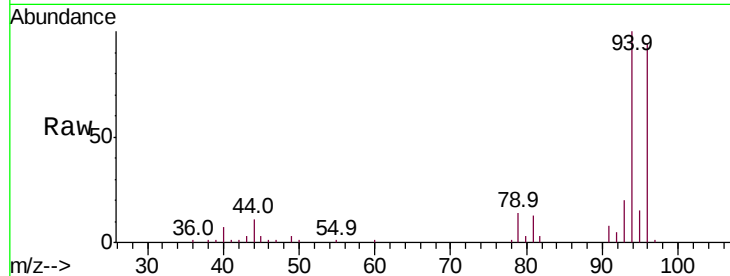
96 93.5 76.0 114.0

Manual Integrations

APPROVED

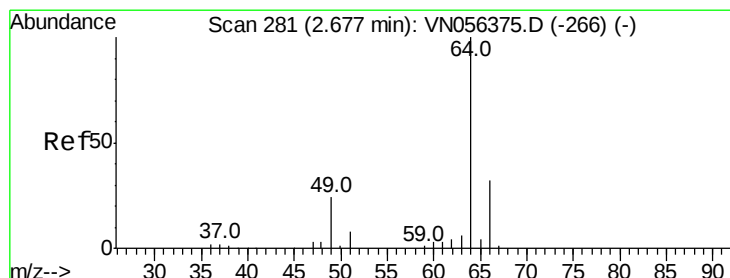
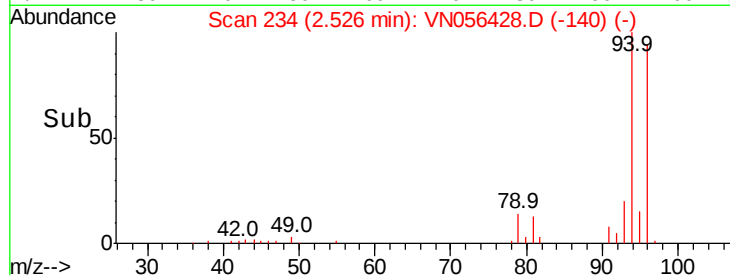
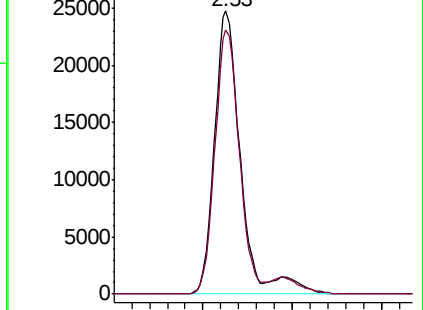
MMDadoda

6/24/2019 4:16:17 PM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 19.541 ug/l

RT: 2.68 min Scan# 282

Delta R.T. 0.00 min

Lab File: VN056428.D

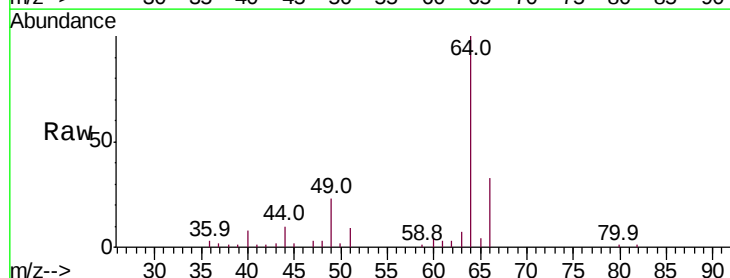
Acq: 21 Jun 2019 16:02

Tgt Ion: 64 Resp: 45992

Ion Ratio Lower Upper

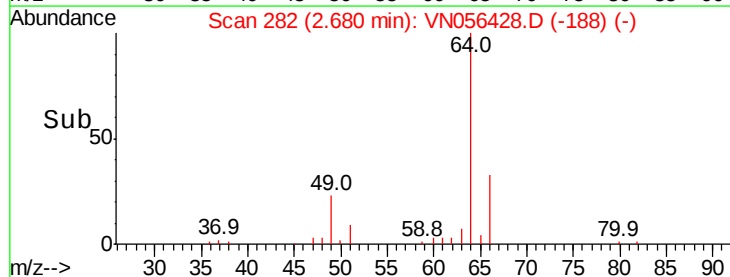
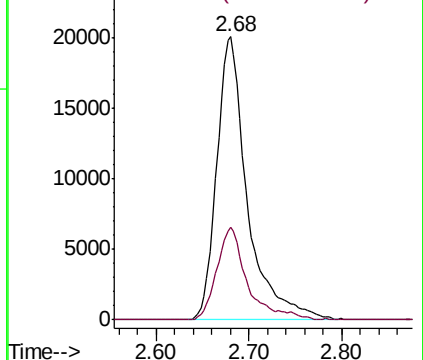
64 100

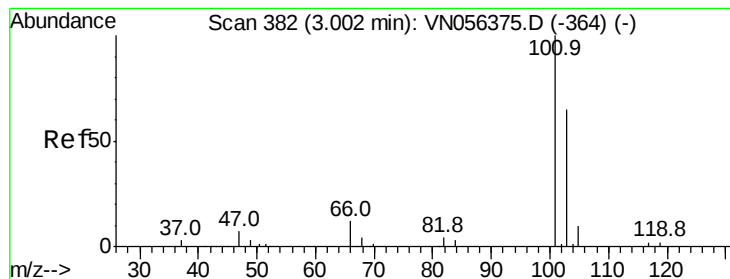
66 32.7 25.8 38.8



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

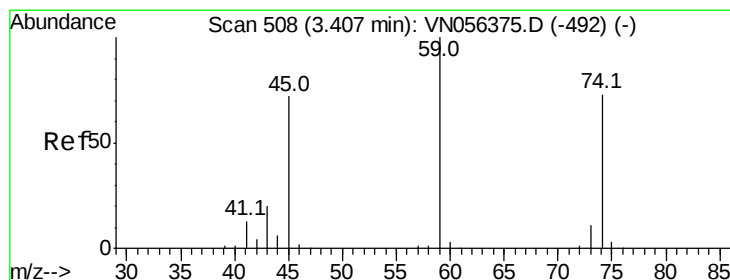
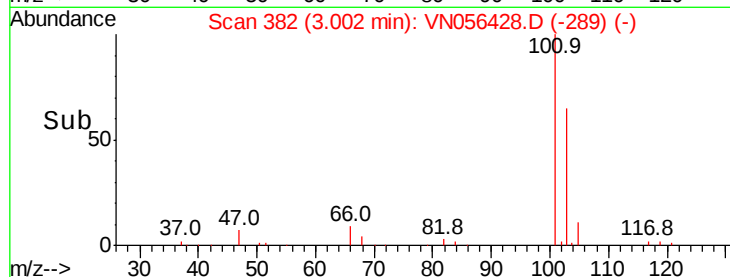
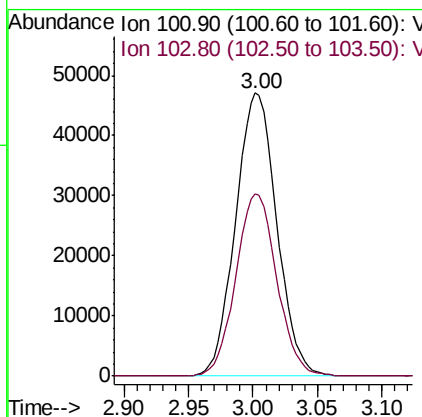
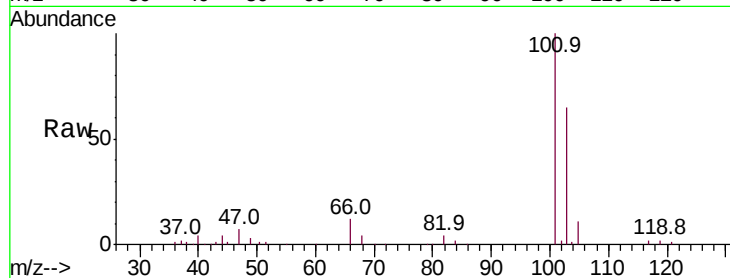
Trichlorofluoromethane
Concen: 19.905 ug/l
RT: 3.00 min Scan# 382
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Instrument :
MSVOA_N
ClientSampleId :
VN0621MBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.6	51.7	77.5

Manual Integrations
APPROVED

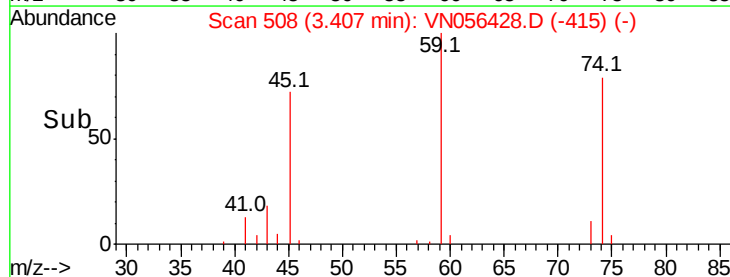
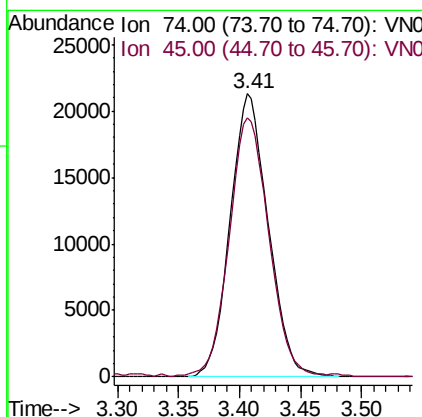
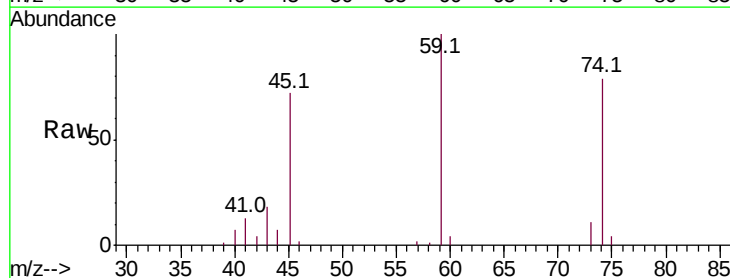
MMDadoda
6/24/2019 4:16:17 PM

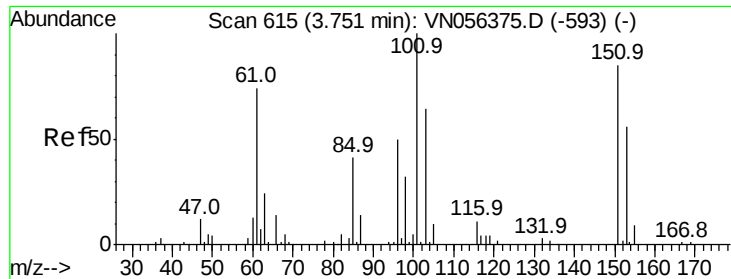


#8

Diethyl Ether
Concen: 20.714 ug/l
RT: 3.41 min Scan# 508
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Tgt Ion	Ratio	Lower	Upper
74	100		
45	95.8	48.9	146.6





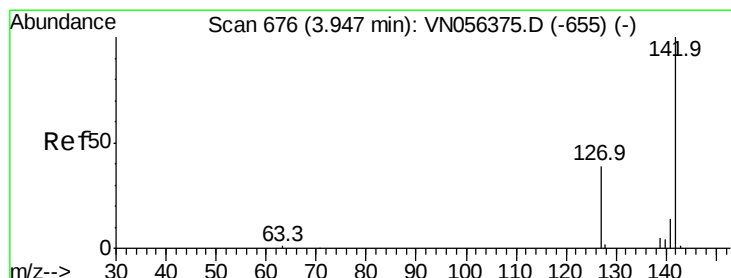
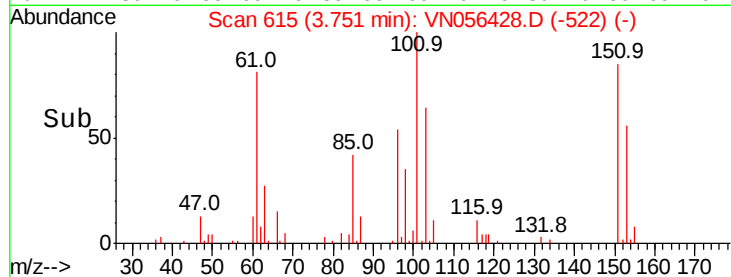
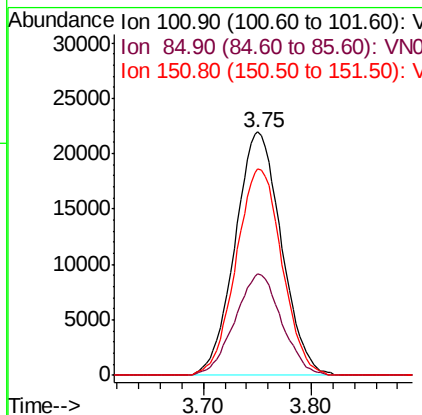
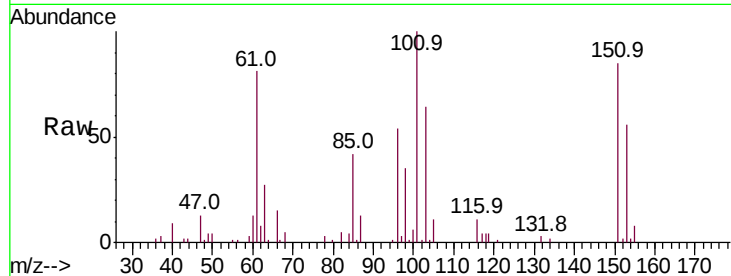
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 19.498 ug/l
 RT: 3.75 min Scan# 615
 Delta R.T. 0.00 min
 Lab File: VN056428.D
 Acq: 21 Jun 2019 16:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0621MBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
85	41.9	32.7	49.1
151	84.1	66.8	100.2

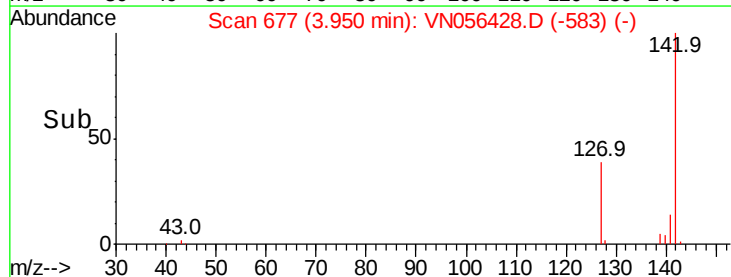
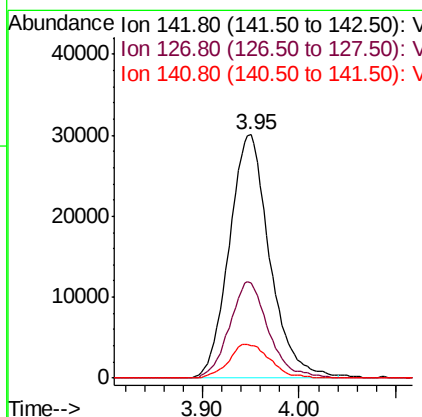
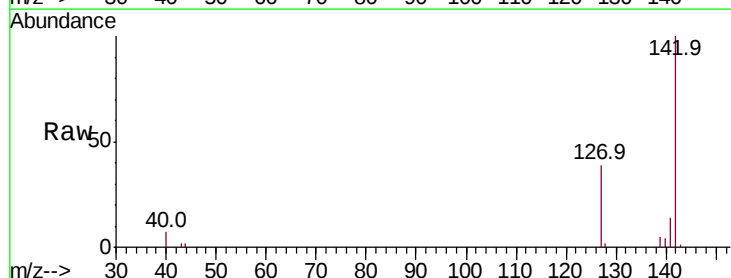
Manual Integrations
 APPROVED

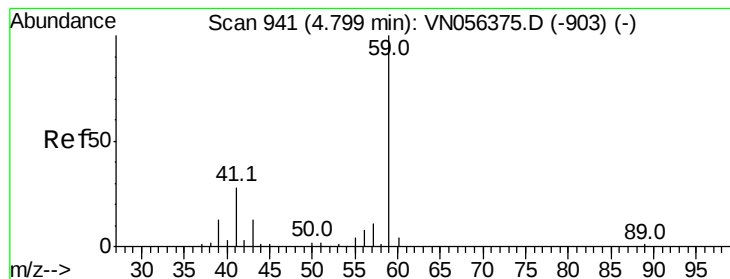
MMDadoda
 6/24/2019 4:16:17 PM



#10
 Methyl Iodide
 Concen: 19.286 ug/l
 RT: 3.95 min Scan# 677
 Delta R.T. 0.00 min
 Lab File: VN056428.D
 Acq: 21 Jun 2019 16:02

Tgt Ion	Ratio	Lower	Upper
142	100		
127	38.0	30.6	46.0
141	14.1	11.4	17.2





#11

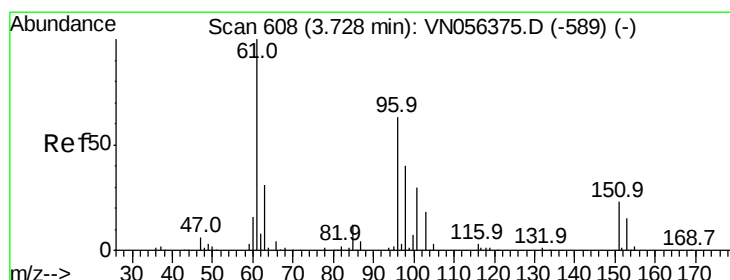
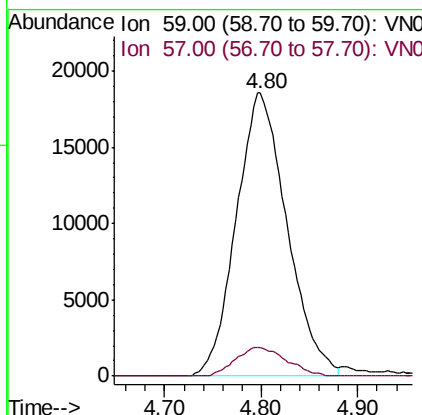
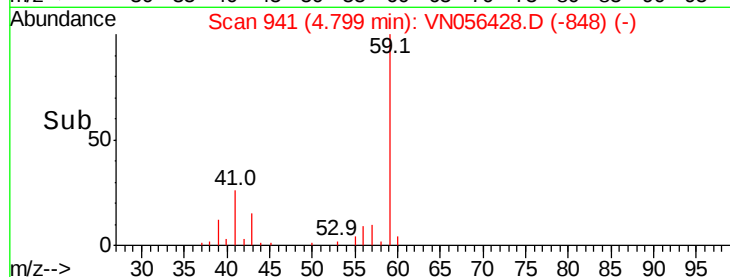
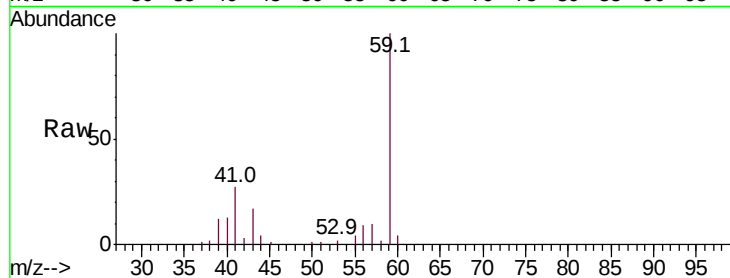
Tert butyl alcohol
Concen: 99.169 ug/l
RT: 4.80 min Scan# 941
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Instrument :
MSVOA_N
ClientSampleId :
VN0621MBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.1	7.6	11.4

Manual Integrations
APPROVED

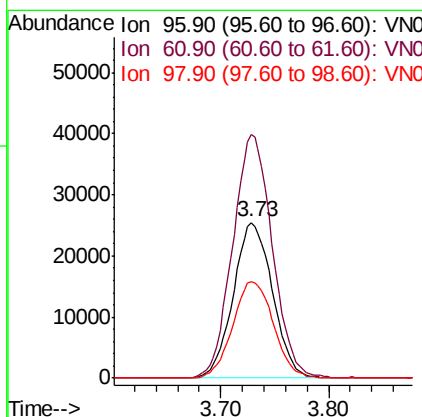
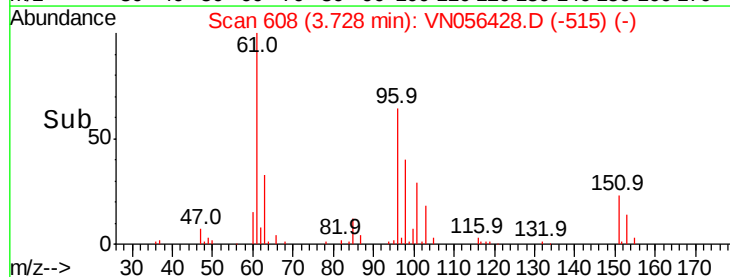
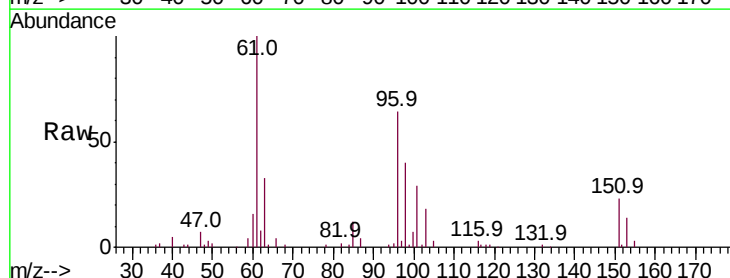
MMDadoda
6/24/2019 4:16:17 PM

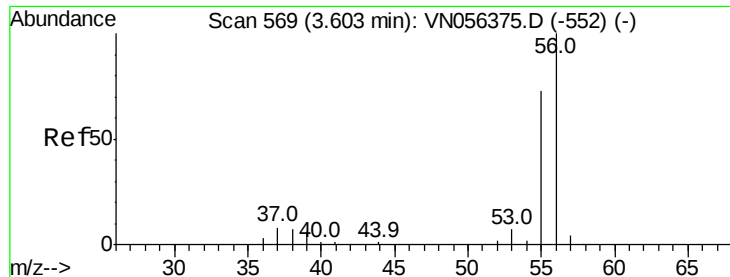


#12

1,1-Dichloroethene
Concen: 19.979 ug/l
RT: 3.73 min Scan# 608
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Tgt Ion	Ratio	Lower	Upper
96	100		
61	156.7	126.6	190.0
98	62.2	51.1	76.7





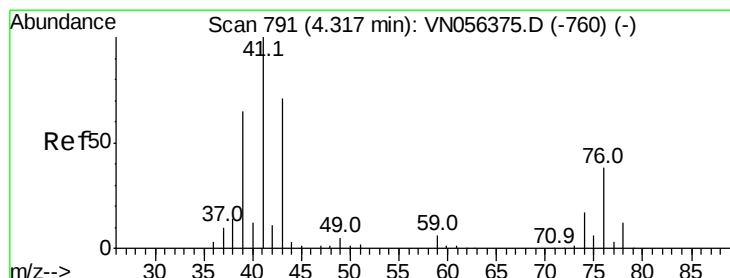
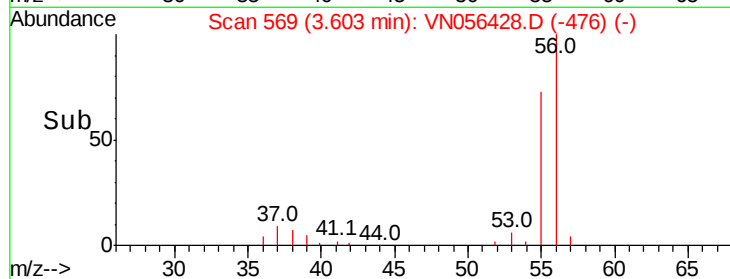
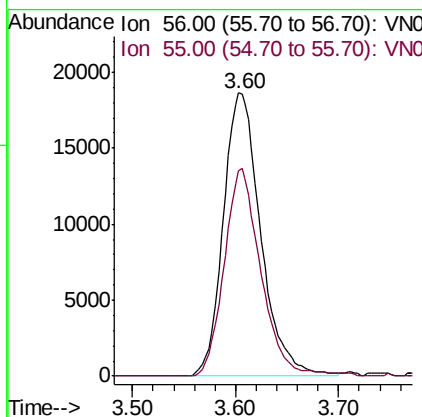
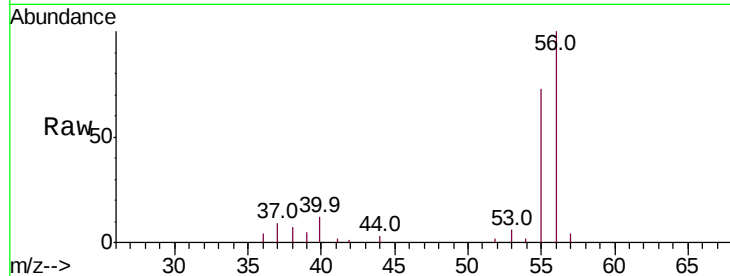
#13
Acrolein
Concen: 81.867 ug/l
RT: 3.60 min Scan# 569
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Instrument :
MSVOA_N
ClientSampleId :
VN0621MBSD01

Tot Ion	56	Resp	47007
Ion Ratio	100	Lower	Upper
56	100		
55	71.7	57.1	85.7

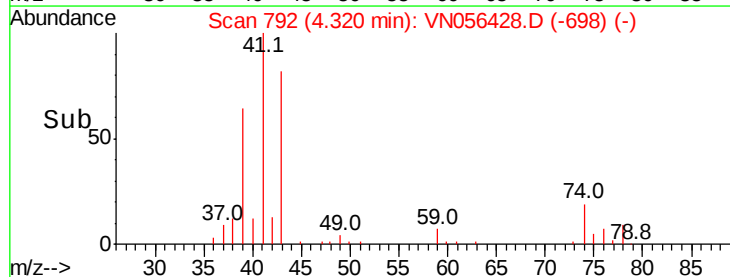
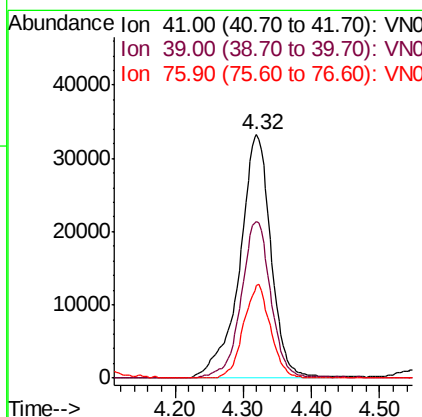
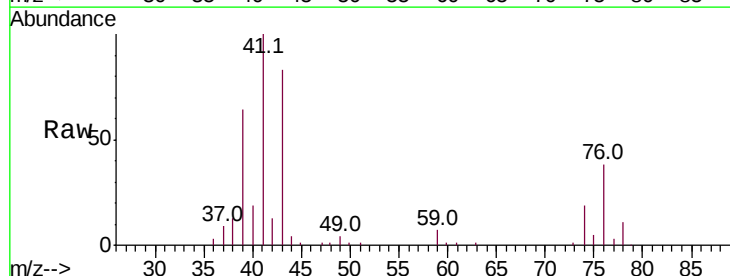
Manual Integrations
APPROVED

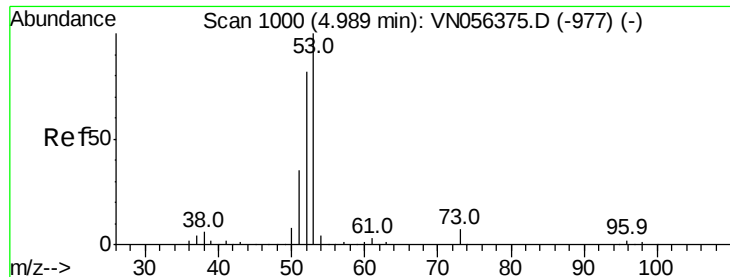
MMDadoda
6/24/2019 4:16:17 PM



#14
Allyl chloride
Concen: 19.771 ug/l
RT: 4.32 min Scan# 792
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Tgt Ion	41	Resp	106106
Ion Ratio	100	Lower	Upper
41	100		
39	60.5	48.6	73.0
76	32.8	26.6	40.0





#15

Acrylonitrile

Concen: 103.210 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VN056428.D

Acq: 21 Jun 2019 16:02

Instrument :

MSVOA_N

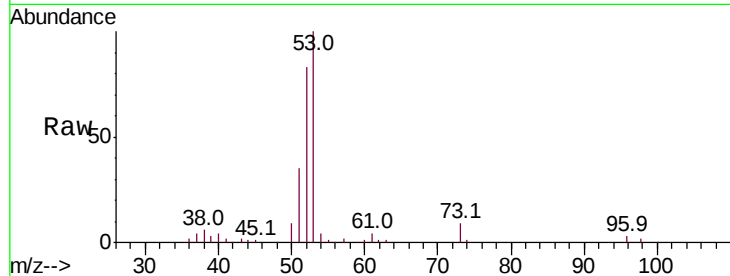
ClientSampleId :

VN0621MBSD01

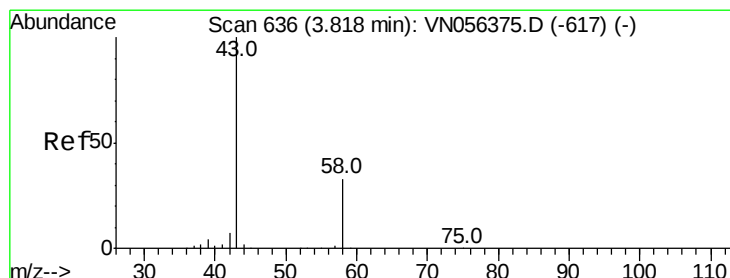
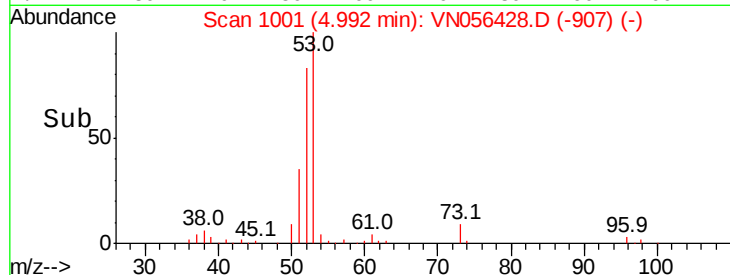
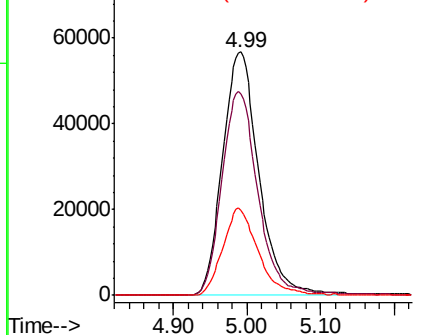
Tot Ion:	53	Resp:	194524
Ion Ratio	Lower	Upper	
53	100		
52	83.2	65.9	98.9
51	34.8	28.3	42.5

Manual Integrations
APPROVED

MMDadoda
6/24/2019 4:16:17 PM



Abundance Ion 53.00 (52.70 to 53.70): VN0
Ion 52.00 (51.70 to 52.70): VN0
Ion 51.00 (50.70 to 51.70): VN0



#16

Acetone

Concen: 83.454 ug/l

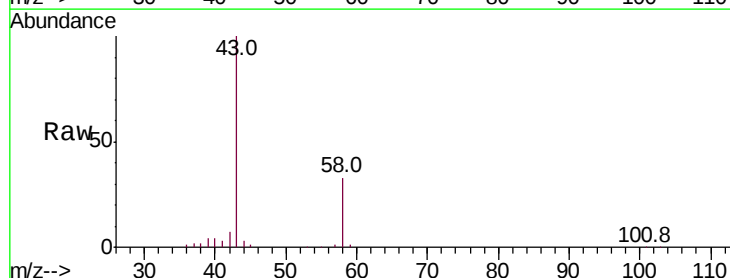
RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

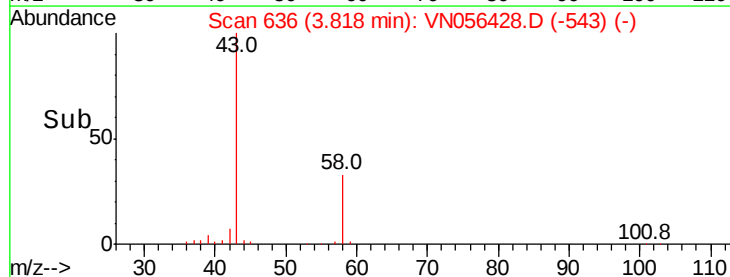
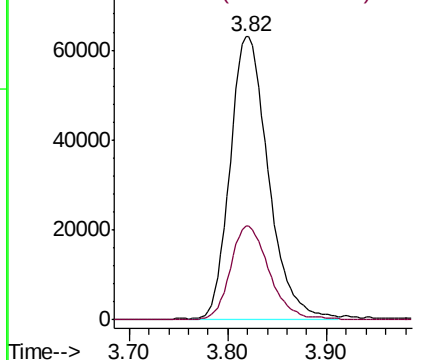
Lab File: VN056428.D

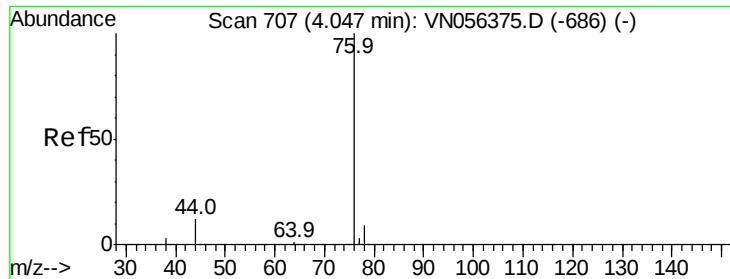
Acq: 21 Jun 2019 16:02

Tgt Ion:	43	Resp:	169125
Ion Ratio	Lower	Upper	
43	100		
58	33.4	26.4	39.6



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





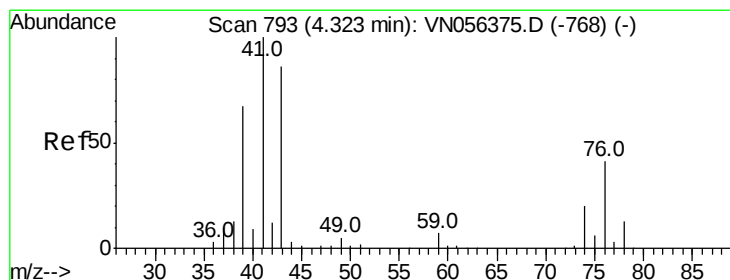
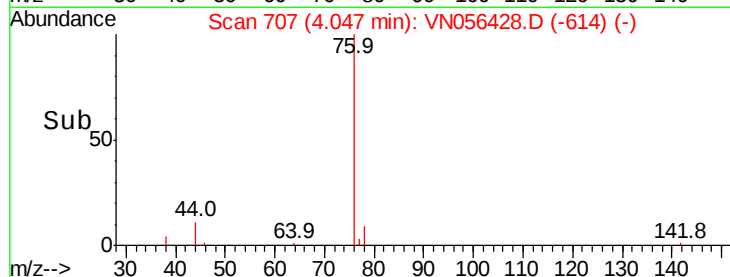
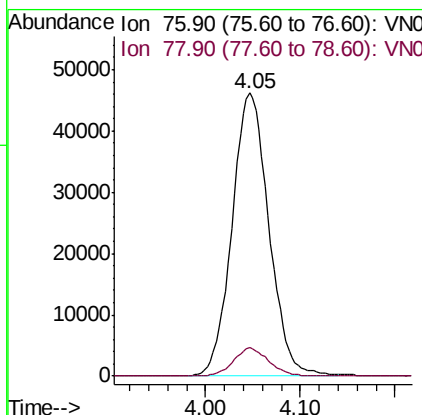
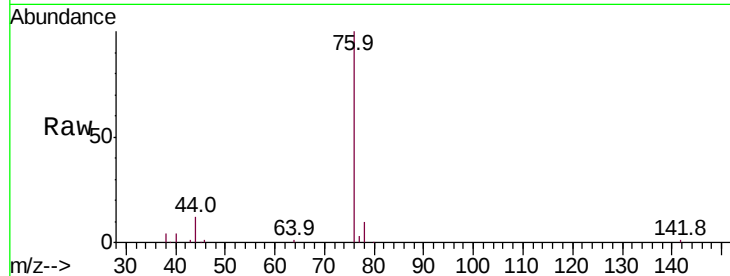
#17
Carbon Disulfide
Concen: 17.054 ug/l
RT: 4.05 min Scan# 707
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Instrument :
MSVOA_N
ClientSampled :
VN0621MBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	10.0	7.1	10.7

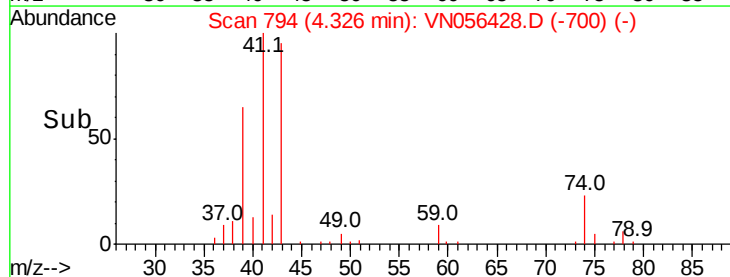
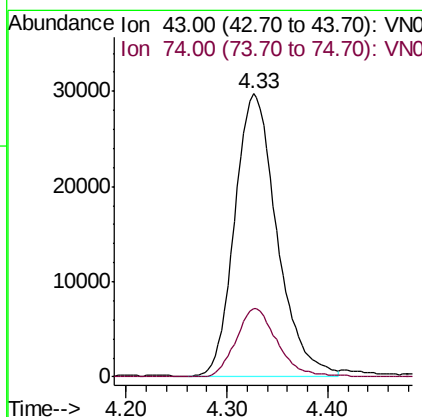
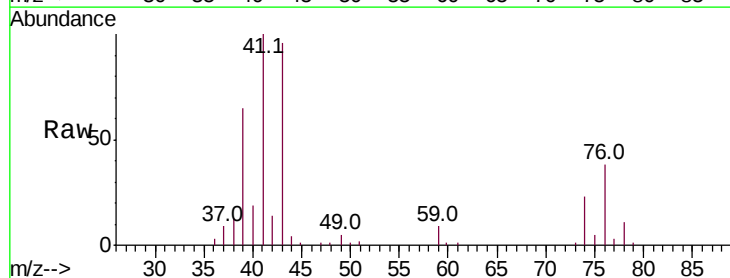
Manual Integrations
APPROVED

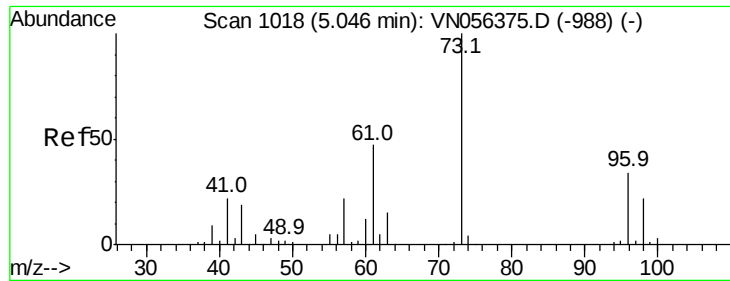
MMDadoda
6/24/2019 4:16:17 PM



#18
Methyl Acetate
Concen: 21.390 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.4	19.2	28.8





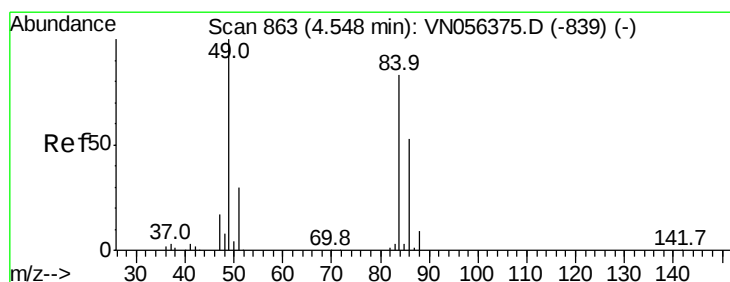
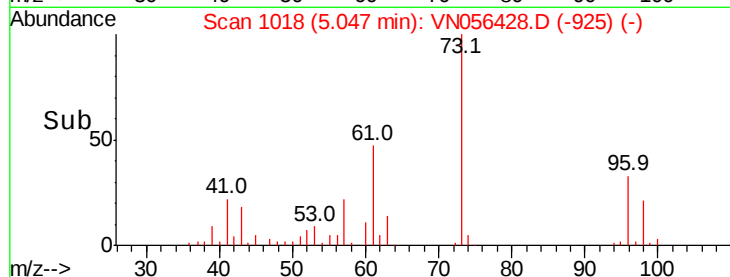
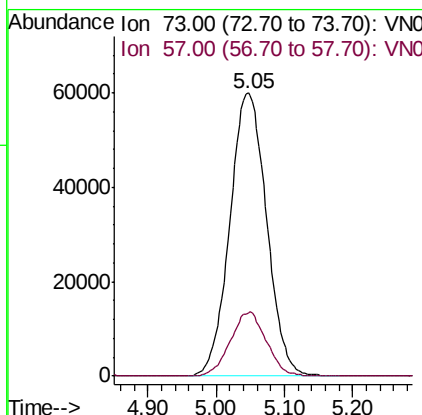
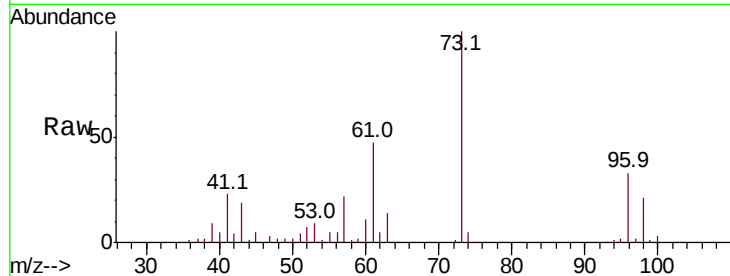
#19
Methvl tert-butvl Ether
Concen: 21.072 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Instrument :
MSVOA_N
ClientSampleId :
VN0621MBSD01

Tot Ion: 73 Resp: 224796
Ion Ratio Lower Upper
73 100
57 22.1 17.9 26.9

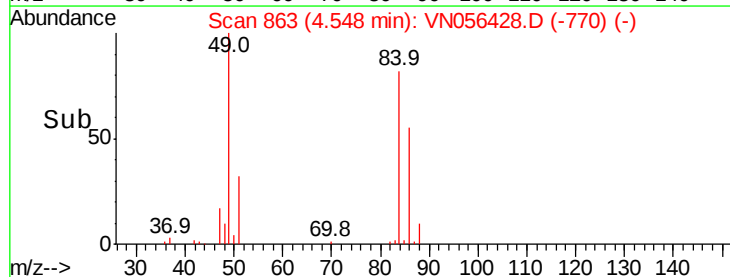
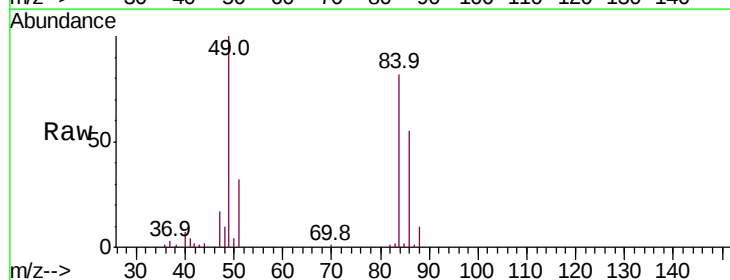
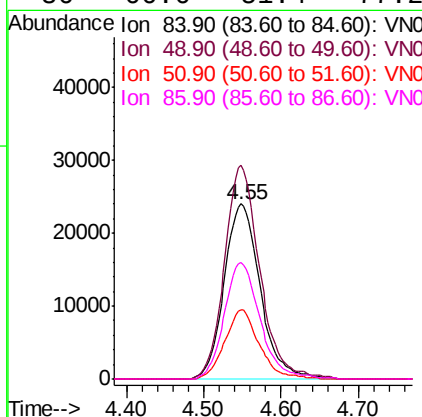
Manual Integrations
APPROVED

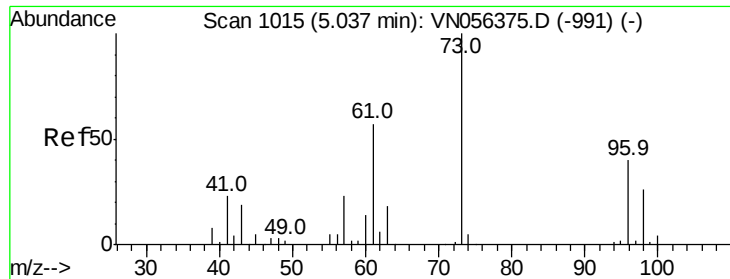
MMDadoda
6/24/2019 4:16:17 PM



#20
Methylene Chloride
Concen: 19.784 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Tgt Ion: 84 Resp: 77638
Ion Ratio Lower Upper
84 100
49 121.9 96.4 144.6
51 39.5 28.6 43.0
86 66.6 51.4 77.2





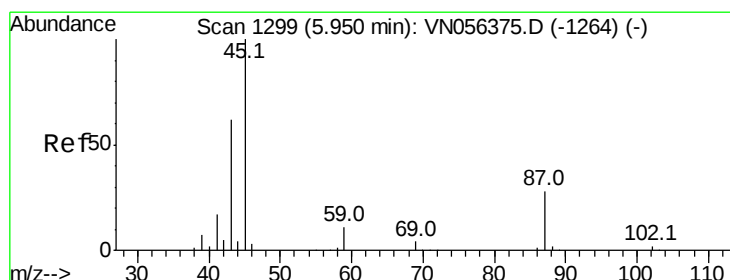
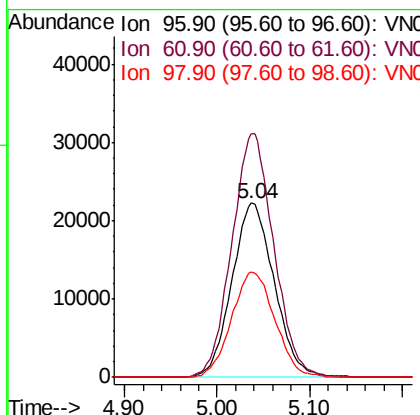
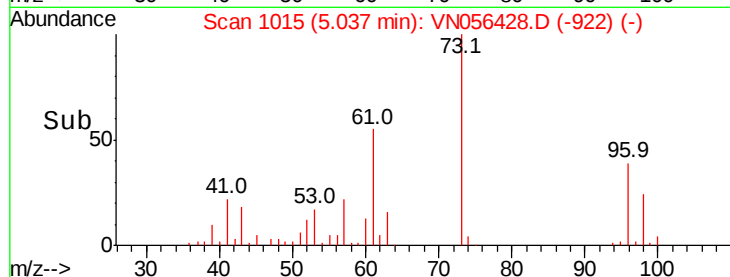
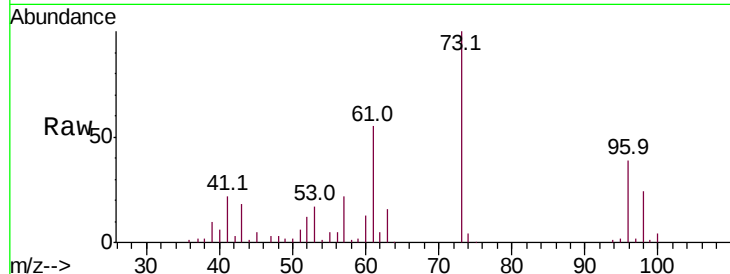
#21
trans-1,2-Dichloroethene
Concen: 20.274 ug/l
RT: 5.04 min Scan# 1015
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Instrument :
MSVOA_N
ClientSampleId :
VN0621MBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	139.6	113.0	169.6
98	60.6	52.2	78.2

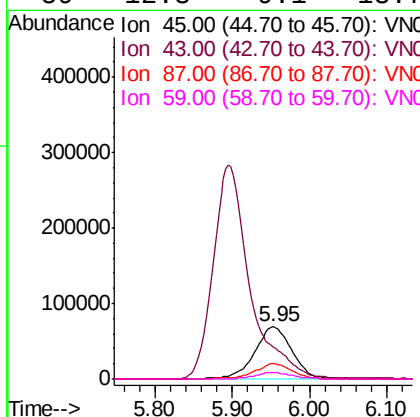
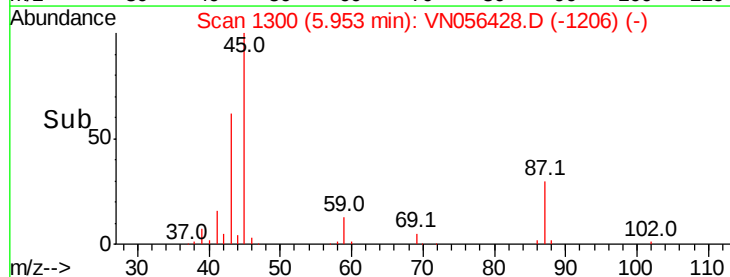
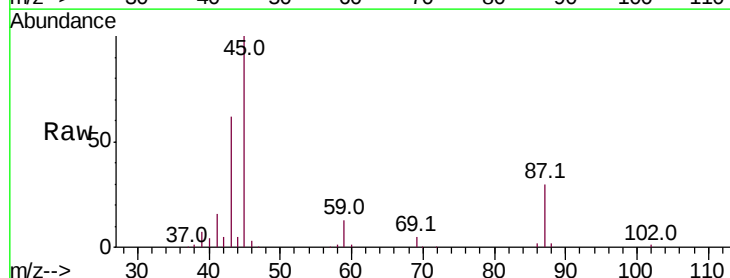
Manual Integrations
APPROVED

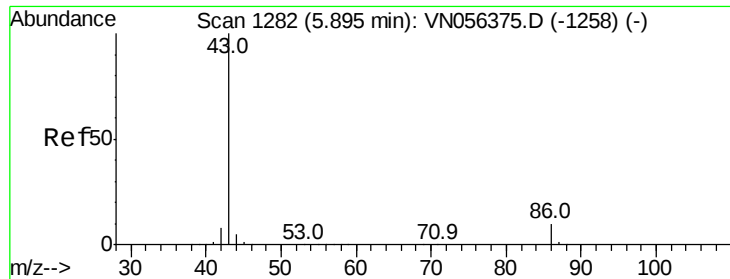
MMDadoda
6/24/2019 4:16:17 PM



#22
Diisopropyl ether
Concen: 20.611 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Tgt Ion	Ratio	Lower	Upper
45	100		
43	59.9	50.4	75.6
87	29.1	23.0	34.4
59	12.3	9.1	13.7





#23

Vinyl Acetate

Concen: 105.293 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN056428.D

Acq: 21 Jun 2019 16:02

Instrument :

MSVOA_N

ClientSampleId :

VN0621MBSD01

Tot Ion: 43 Resp: 936040

Ion Ratio Lower Upper

43 100

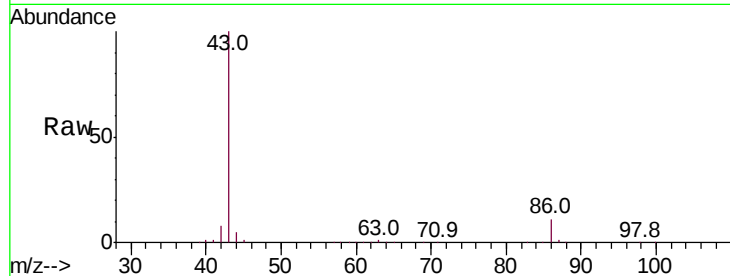
86 10.6 8.3 12.5

Manual Integrations

APPROVED

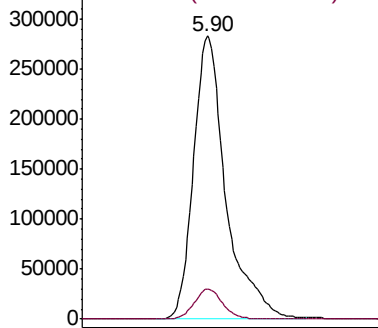
MMDadoda

6/24/2019 4:16:17 PM

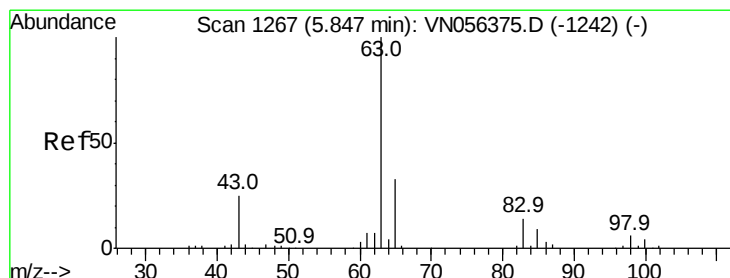
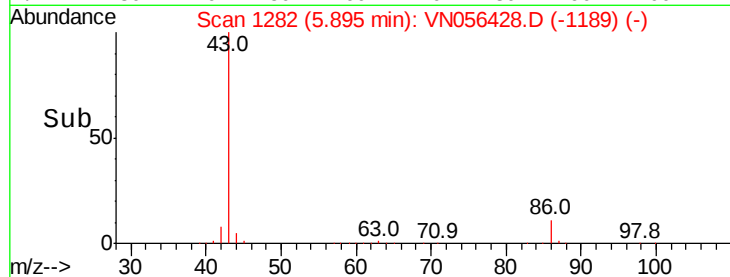


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



Time-->



#24

1,1-Dichloroethane

Concen: 20.497 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VN056428.D

Acq: 21 Jun 2019 16:02

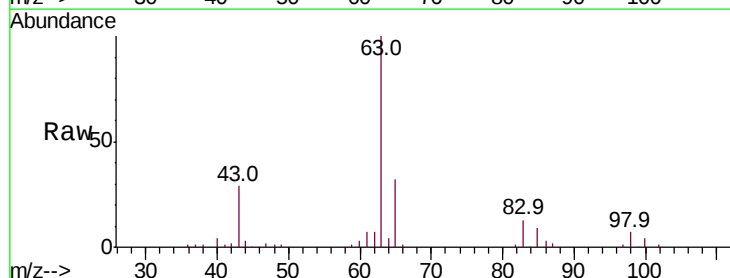
Tgt Ion: 63 Resp: 132618

Ion Ratio Lower Upper

63 100

98 7.0 3.2 9.6

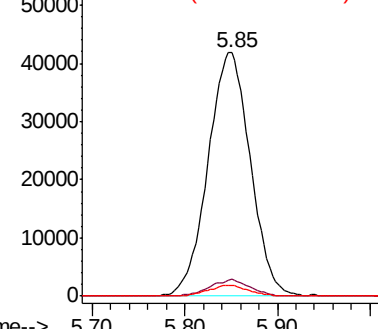
100 4.4 2.1 6.5



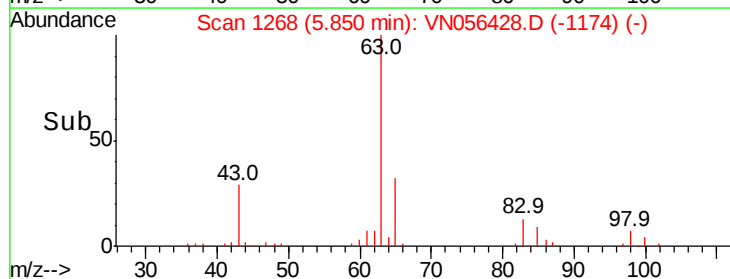
Abundance Ion 62.90 (62.60 to 63.60): VN0

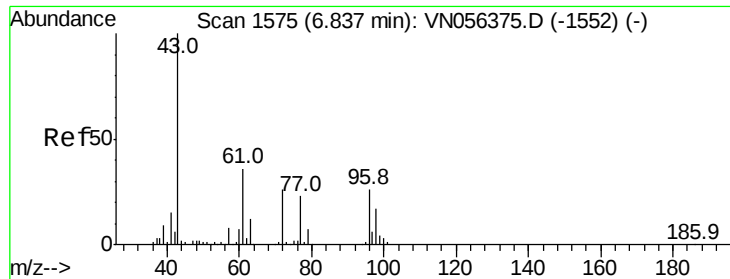
Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0



Time-->





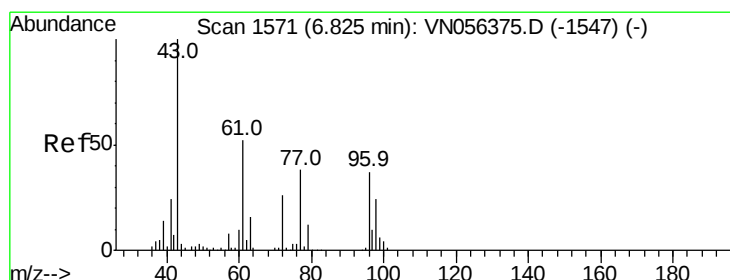
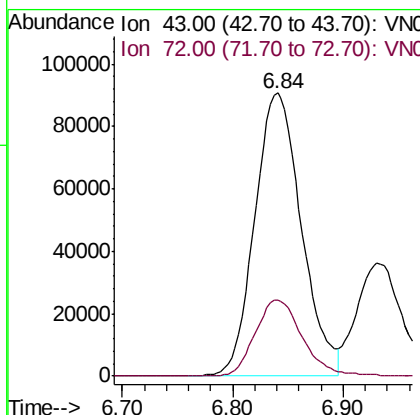
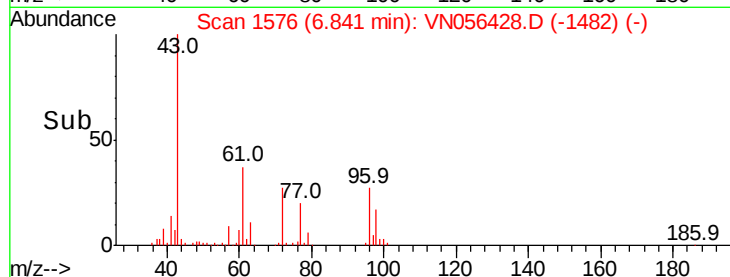
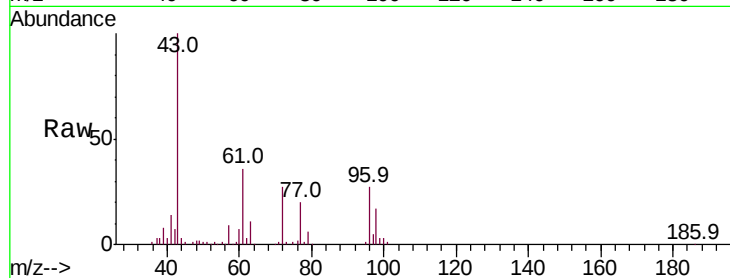
#25
2-Butanone
Concen: 99.290 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Instrument :
MSVOA_N
ClientSampleId :
VN0621MBSD01

Tot Ion: 43 Resp: 266314
Ion Ratio Lower Upper
43 100
72 26.9 20.6 31.0

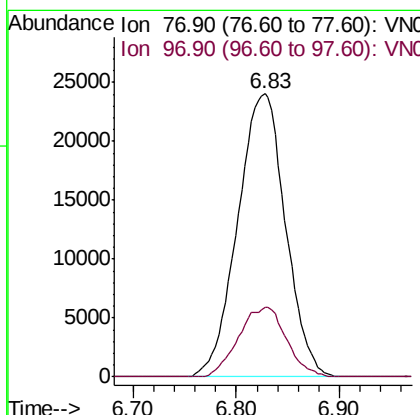
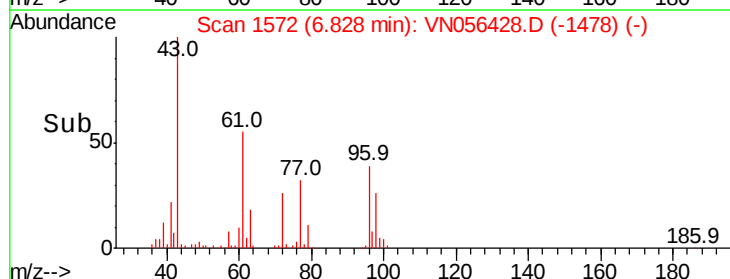
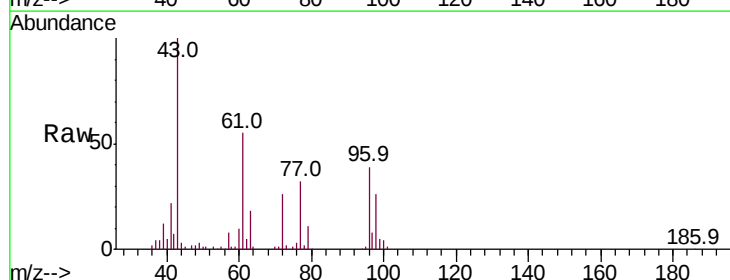
Manual Integrations
APPROVED

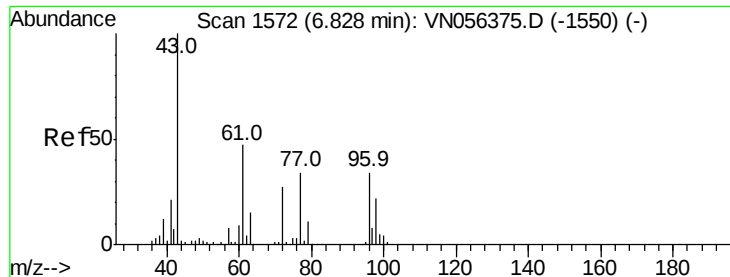
MMDadoda
6/24/2019 4:16:17 PM



#26
2,2-Dichloropropane
Concen: 17.172 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Tgt Ion: 77 Resp: 77272
Ion Ratio Lower Upper
77 100
97 24.6 11.9 35.5





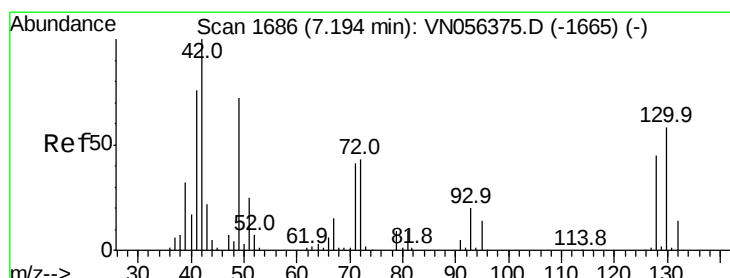
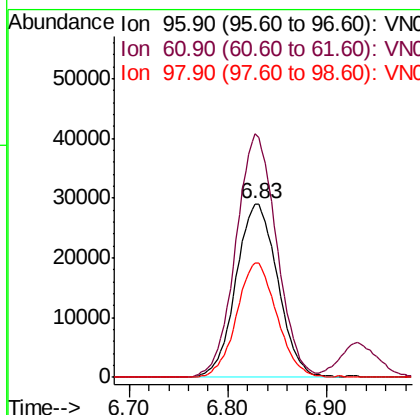
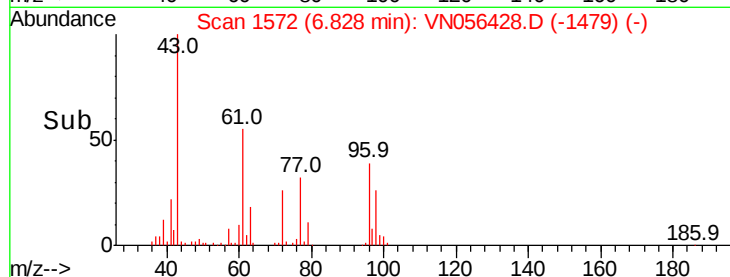
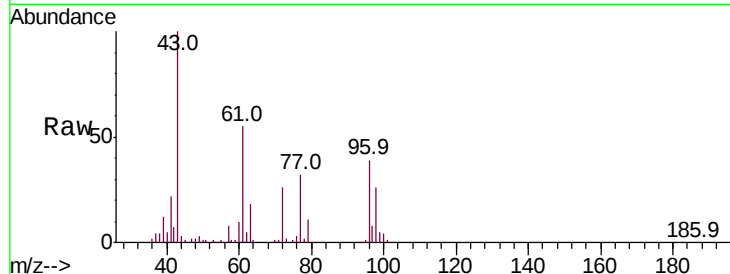
#27
 cis-1,2-Dichloroethene
 Concen: 20.918 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: VN056428.D
 Acq: 21 Jun 2019 16:02

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0621MBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	137.1	0.0	279.8
98	63.7	0.0	130.0

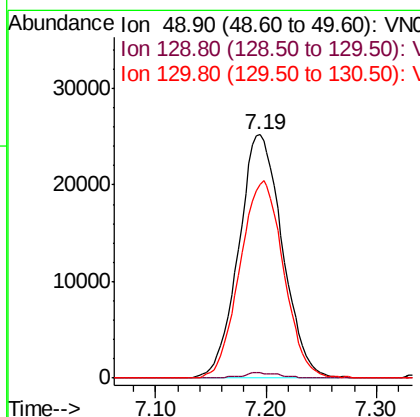
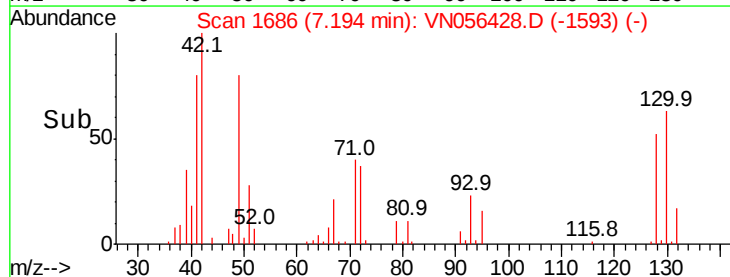
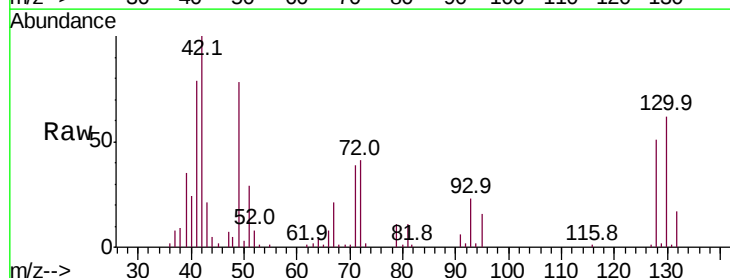
Manual Integrations
 APPROVED

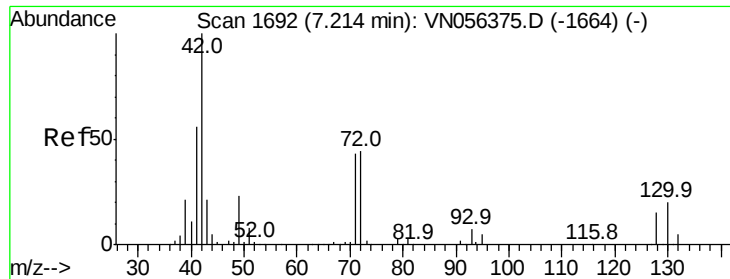
MMDadoda
 6/24/2019 4:16:17 PM



#28
 Bromochloromethane
 Concen: 21.621 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. 0.00 min
 Lab File: VN056428.D
 Acq: 21 Jun 2019 16:02

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.2
130	81.0	64.9	97.3





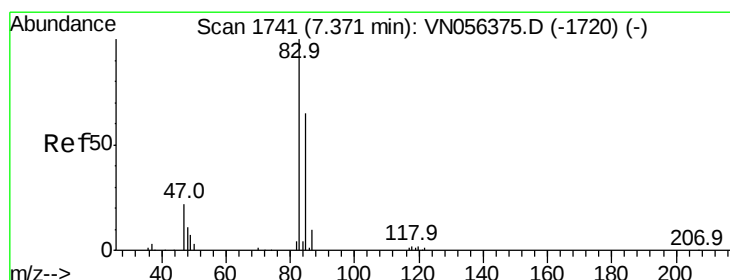
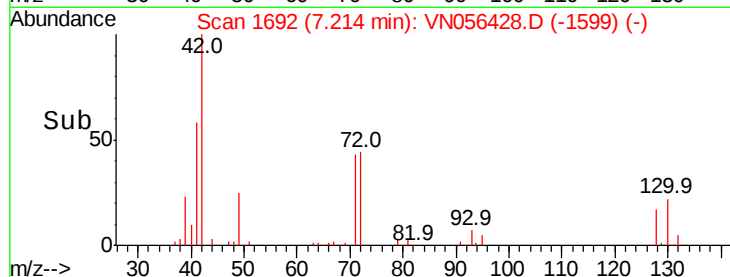
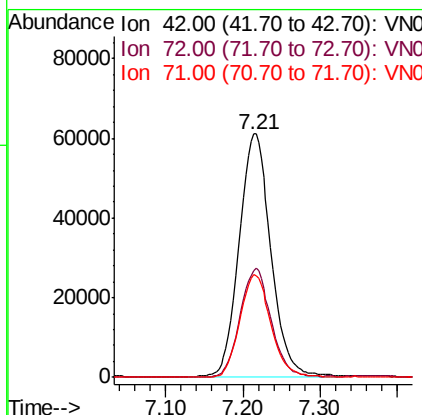
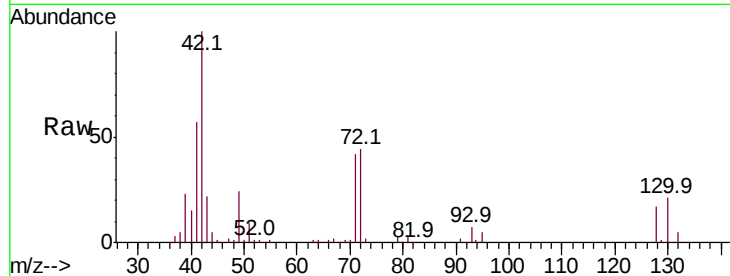
#29
Tetrahydrofuran
Concen: 107.102 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Instrument :
MSVOA_N
ClientSampleId :
VN0621MBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.4	34.7	52.1
71	41.0	33.0	49.6

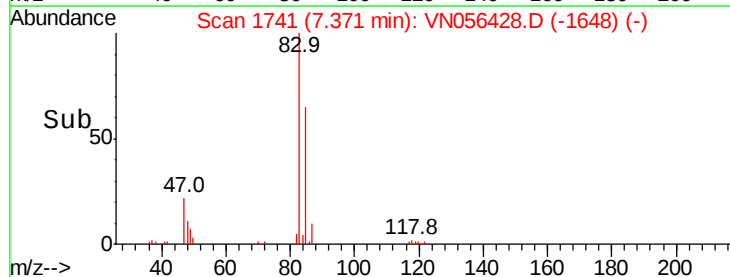
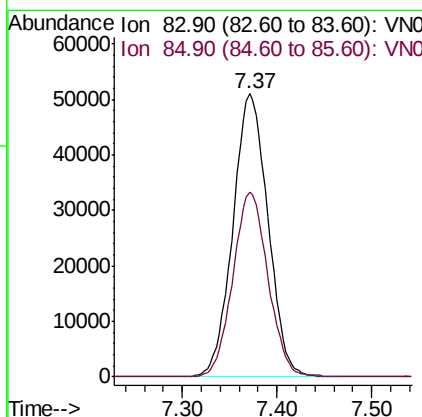
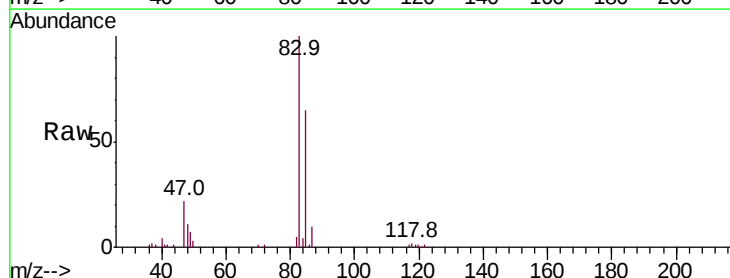
Manual Integrations
APPROVED

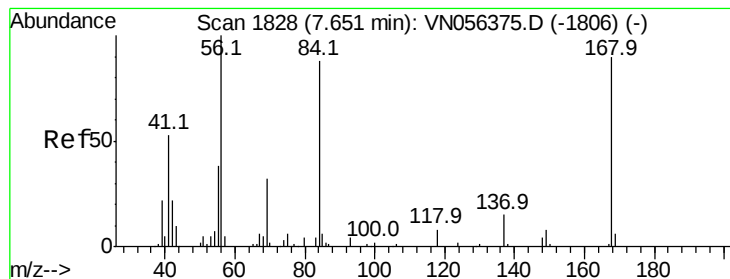
MMDadoda
6/24/2019 4:16:17 PM



#30
Chloroform
Concen: 20.610 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.3	78.5





#31

Cyclohexane

Concen: 20.234 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN056428.D

Acq: 21 Jun 2019 16:02

Instrument :

MSVOA_N

ClientSampleId :

VN0621MBSD01

Tot Ion: 56 Resp: 126383

Ion Ratio Lower Upper

56 100

69 34.7 25.8 38.6

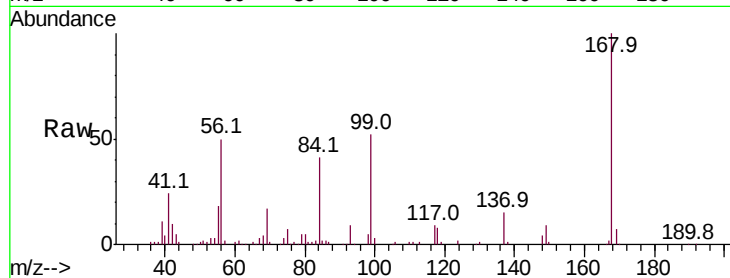
84 81.1 69.4 104.0

Manual Integrations

APPROVED

MMDadoda

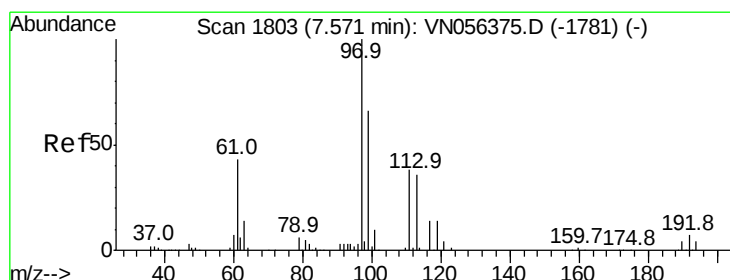
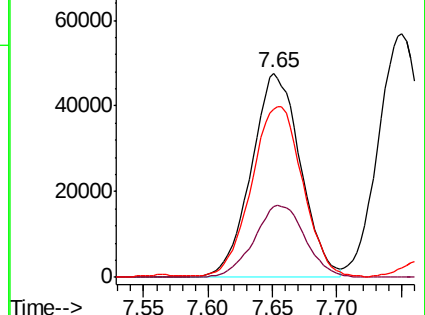
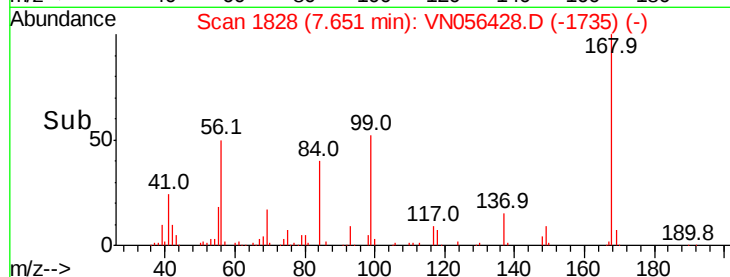
6/24/2019 4:16:17 PM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#32

1,1,1-Trichloroethane

Concen: 20.345 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN056428.D

Acq: 21 Jun 2019 16:02

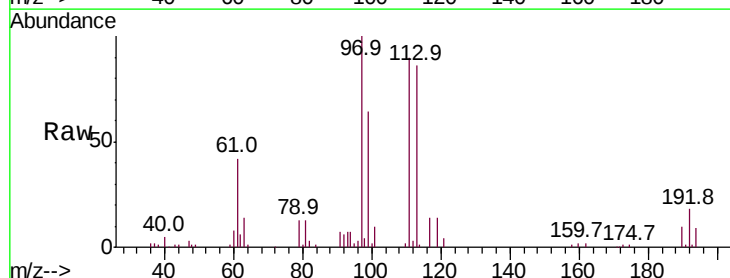
Tgt Ion: 97 Resp: 102954

Ion Ratio Lower Upper

97 100

99 64.3 51.8 77.6

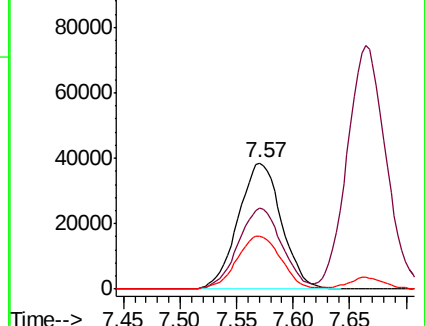
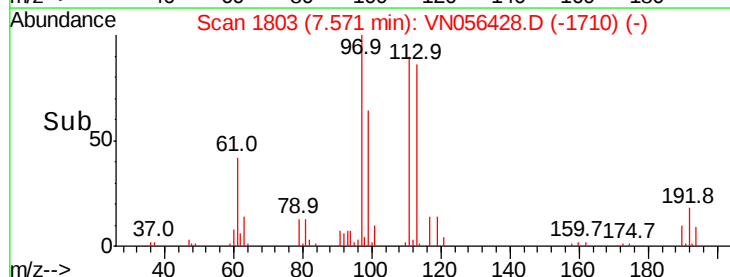
61 42.8 33.9 50.9

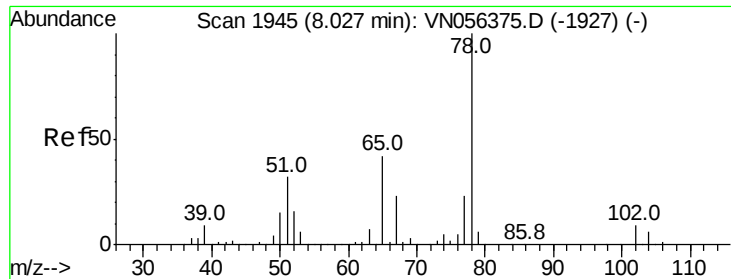


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

Ion 60.90 (60.60 to 61.60): VN0





#33

1,2-Dichloroethane-d4

Concen: 51.513 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN056428.D

Acq: 21 Jun 2019 16:02

Instrument :

MSVOA_N

ClientSampleId :

VN0621MBSD01

Tot Ion: 65 Resp: 208367

Ion Ratio Lower Upper

65 100

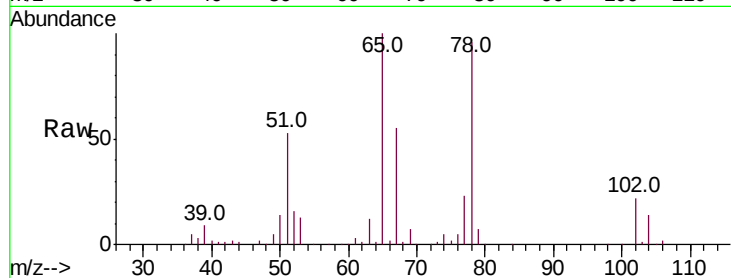
67 55.4 0.0 109.0

Manual Integrations

APPROVED

MMDadoda

6/24/2019 4:16:17 PM



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.03

100000

80000

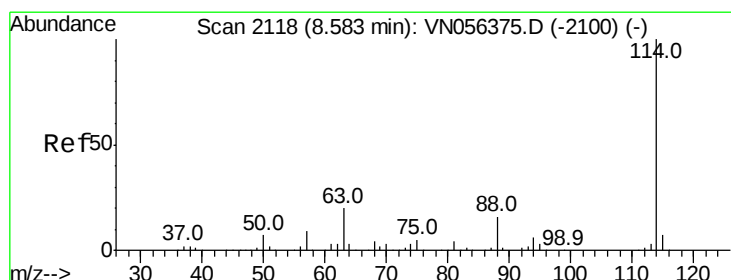
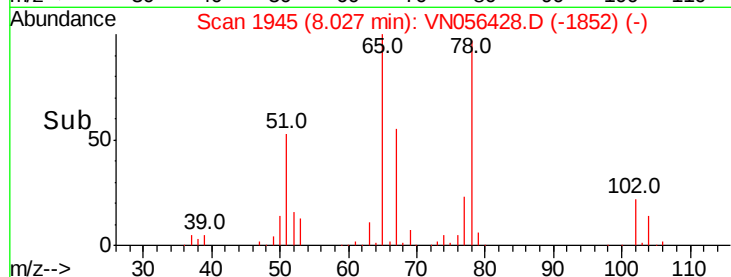
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN056428.D

Acq: 21 Jun 2019 16:02

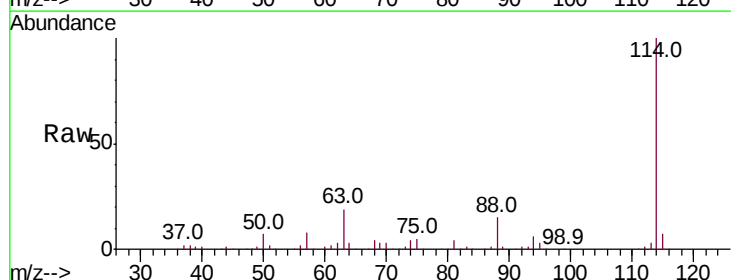
Tgt Ion:114 Resp: 575102

Ion Ratio Lower Upper

114 100

63 19.4 0.0 39.2

88 15.3 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

8.58

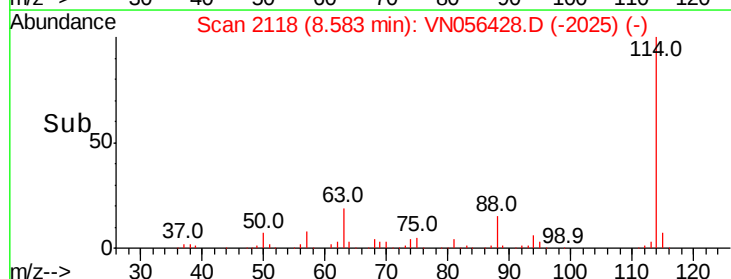
300000

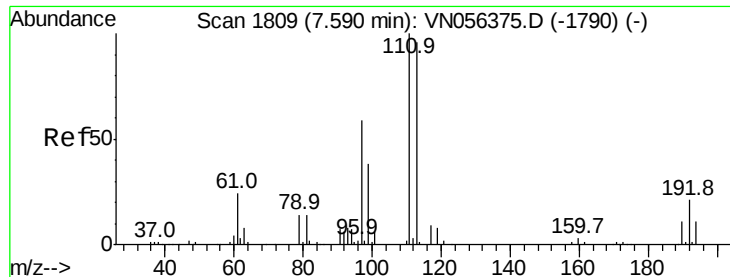
200000

100000

0

Time-->





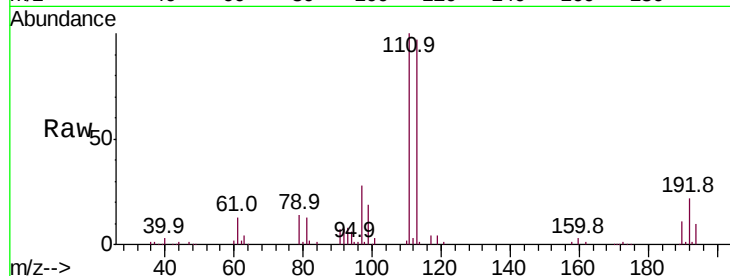
#35
 Dibromofluoromethane
 Concen: 49.472 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056428.D
 Acq: 21 Jun 2019 16:02

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0621MBSD01

Tot Ion	Ratio	Lower	Upper
113	100		
111	104.2	82.9	124.3
192	23.0	17.7	26.5

Manual Integrations
 APPROVED

MMDadoda
 6/24/2019 4:16:17 PM

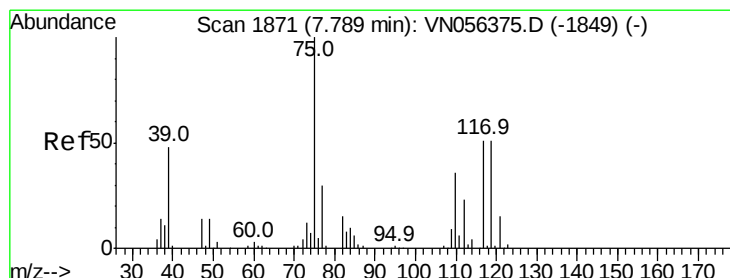
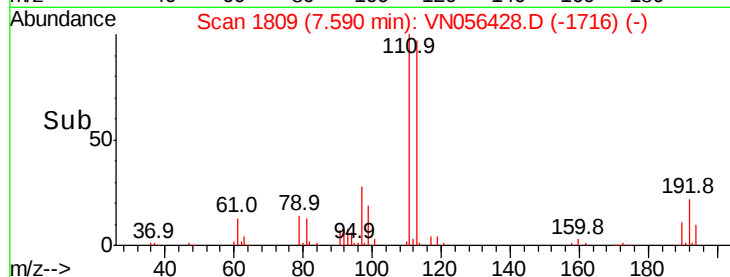
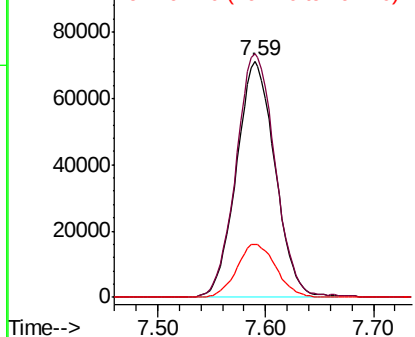


Abundance

Ion 112.80 (112.50 to 113.50): V

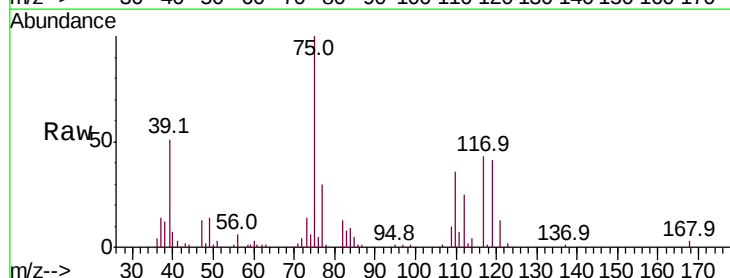
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 18.794 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN056428.D
 Acq: 21 Jun 2019 16:02

Tgt Ion	Ratio	Lower	Upper
75	100		
110	37.5	18.1	54.3
77	31.6	24.6	36.8

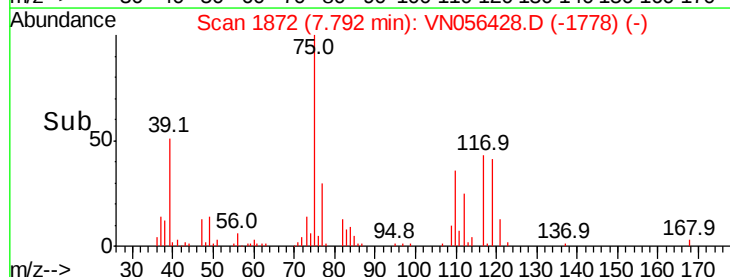
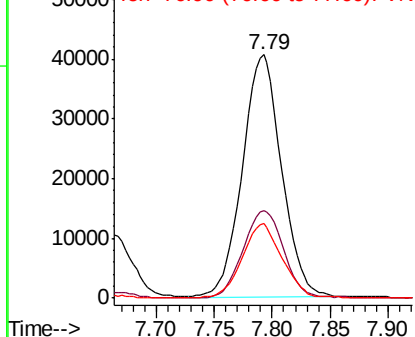


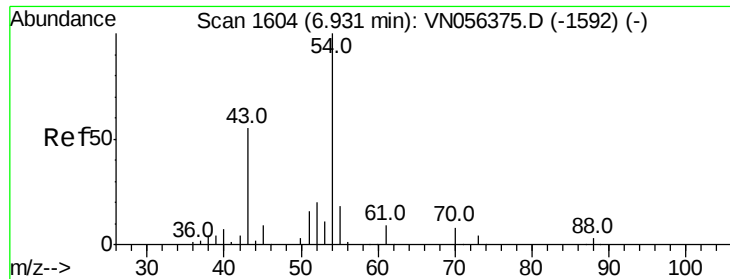
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





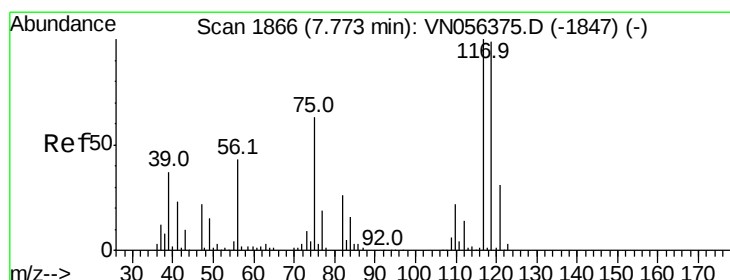
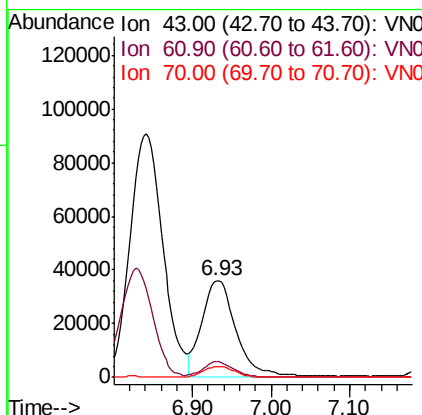
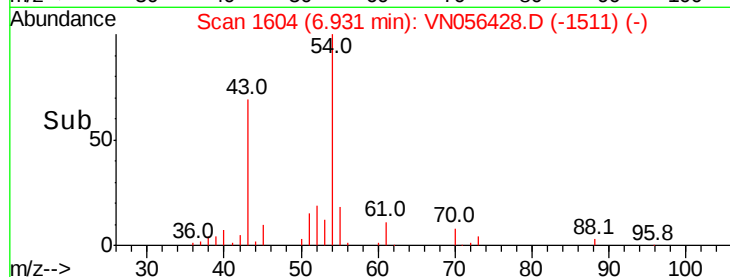
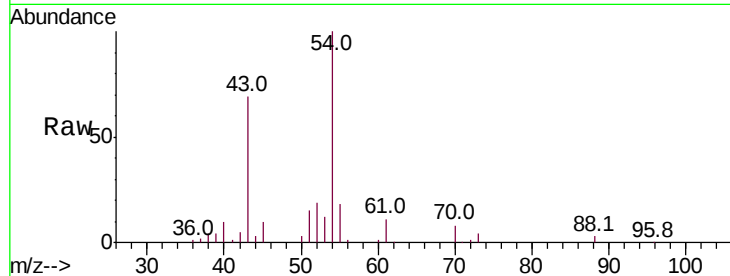
#37
Ethyl Acetate
Concen: 21.568 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Instrument :
MSVOA_N
ClientSampleId :
VN0621MBSD01

Tot Ion	43	61	70
Ion Ratio	100	14.7	10.3
Lower		11.1	8.3
Upper		16.7	12.5

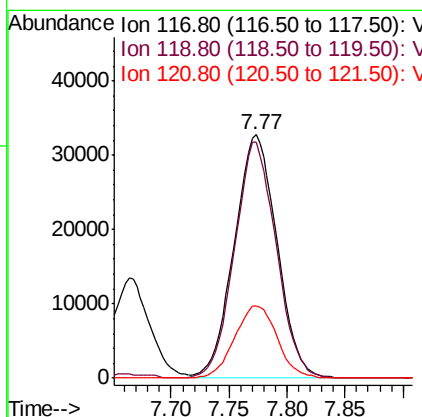
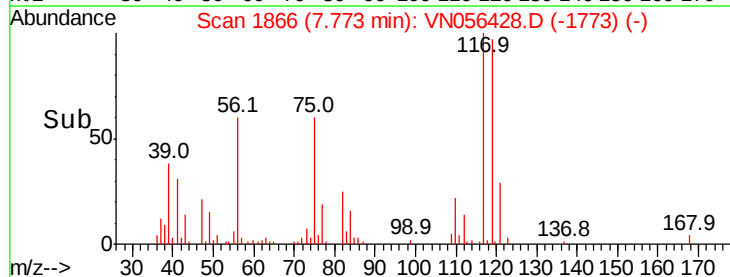
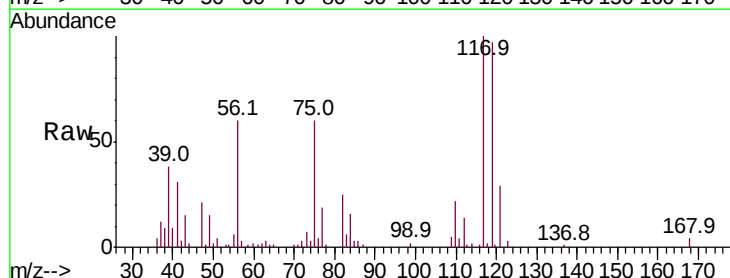
Manual Integrations
APPROVED

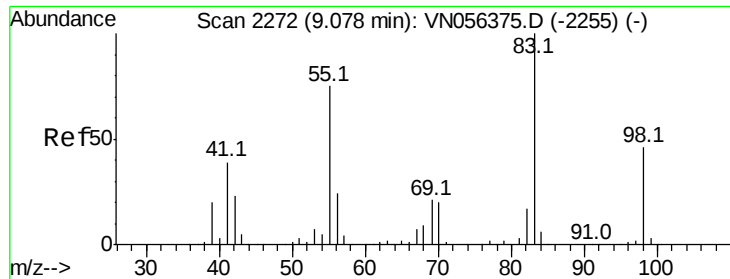
MMDadoda
6/24/2019 4:16:17 PM



#38
Carbon Tetrachloride
Concen: 19.010 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Tgt Ion	117	119	121
Ion Ratio	100	96.7	29.5
Lower		79.1	24.8
Upper		118.7	37.2





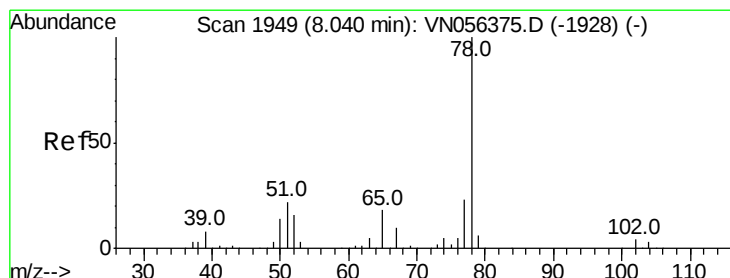
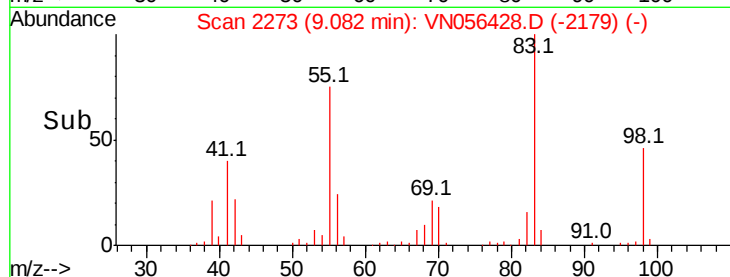
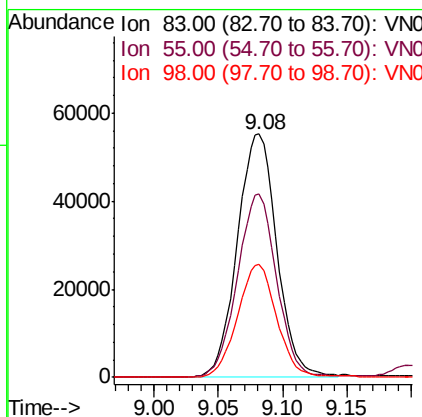
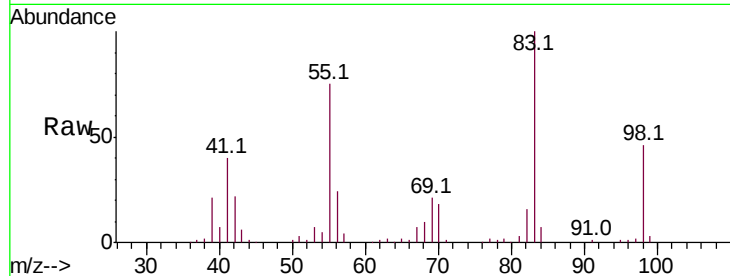
#39
Methvlcvclohexane
Concen: 18.921 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Instrument :
MSVOA_N
ClientSampled :
VN0621MBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	75.2	60.0	90.0
98	46.2	36.6	54.8

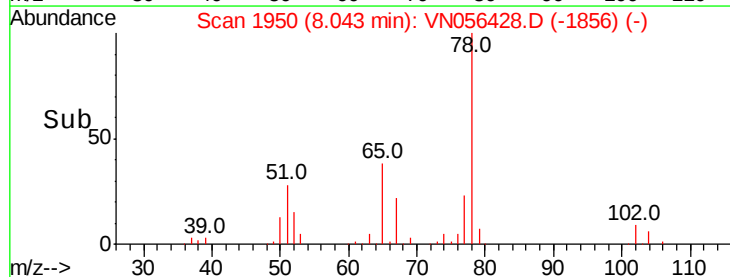
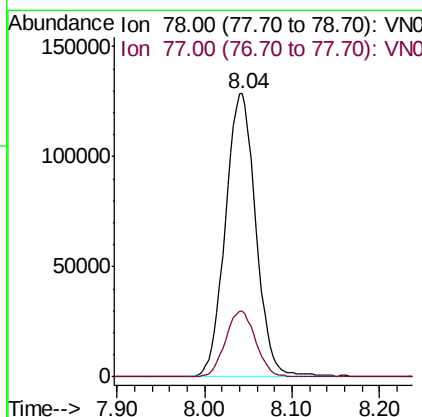
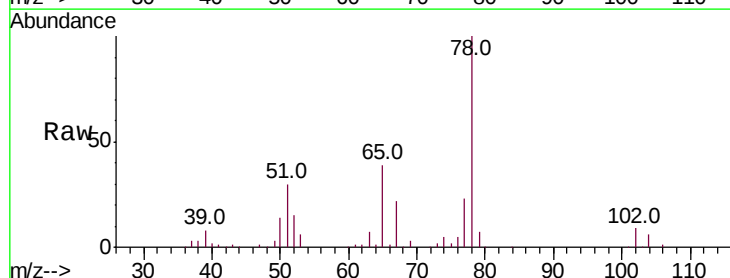
Manual Integrations
APPROVED

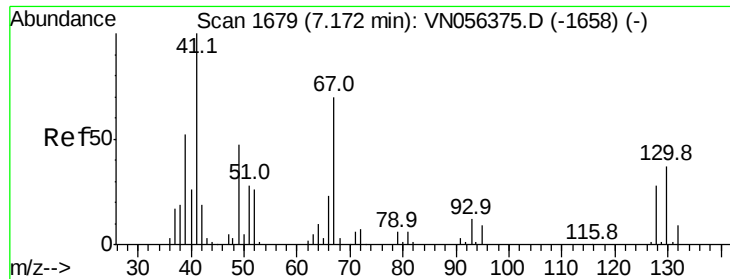
MMDadoda
6/24/2019 4:16:17 PM



#40
Benzene
Concen: 19.984 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.3	27.5





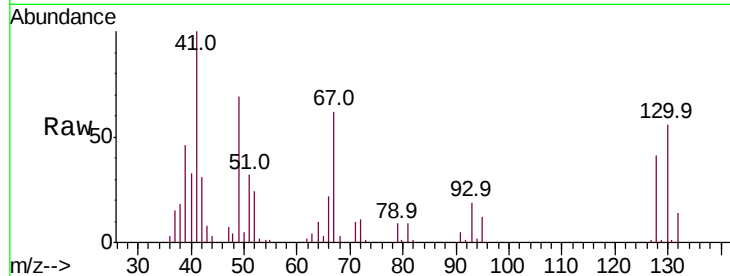
#41
Methacrylonitrile
Concen: 22.477 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Instrument :
MSVOA_N
ClientSampleID :
VN0621MBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	42.7	55.3	82.9#
67	86.6	79.2	118.8
52	33.7	31.4	47.0

Manual Integrations
APPROVED

MMDadoda
6/24/2019 4:16:17 PM



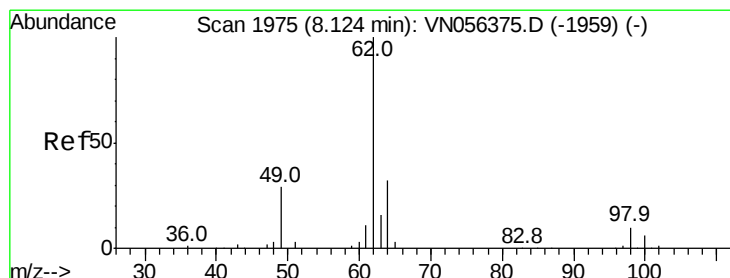
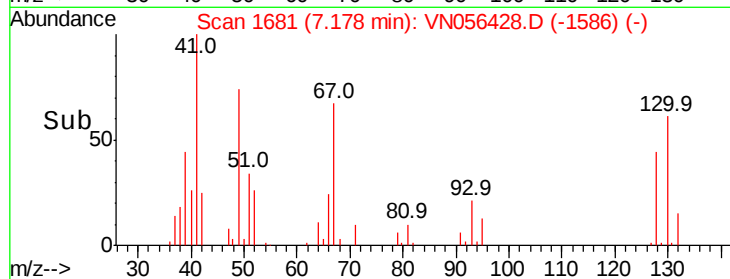
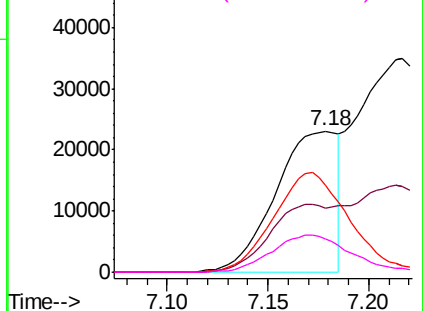
Abundance

Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

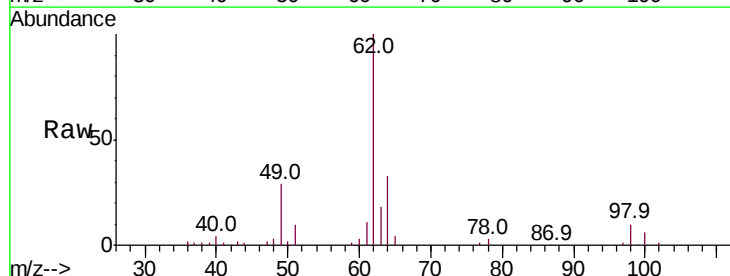
Ion 67.00 (66.70 to 67.70): VNC

Ion 52.00 (51.70 to 52.70): VNC



#42
1,2-Dichloroethane
Concen: 19.829 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

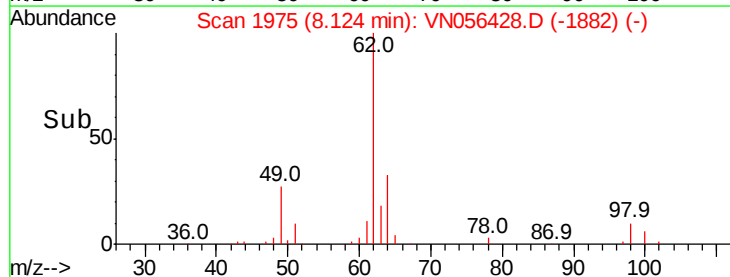
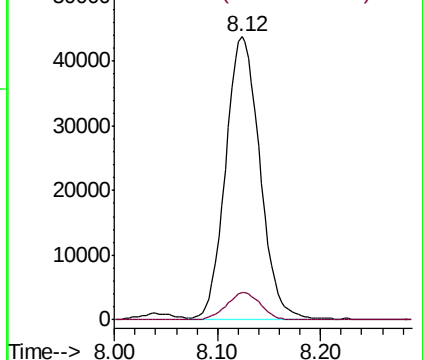
Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.4	0.0	19.4

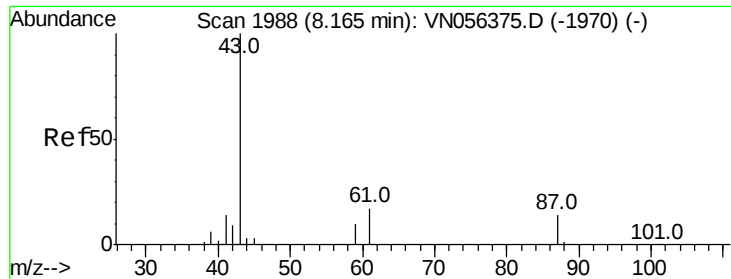


Abundance

Ion 61.90 (61.60 to 62.60): VNC

Ion 97.90 (97.60 to 98.60): VNC





#43

Isopropyl Acetate

Concen: 20.636 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN056428.D

Acq: 21 Jun 2019 16:02

Instrument :

MSVOA_N

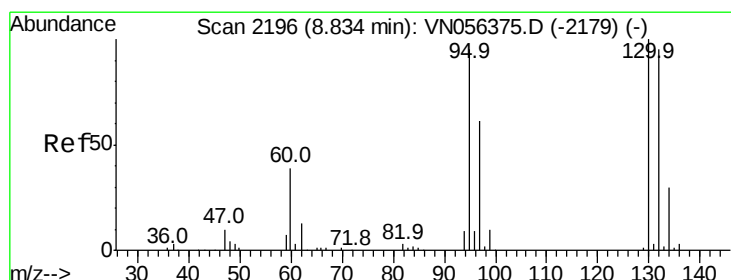
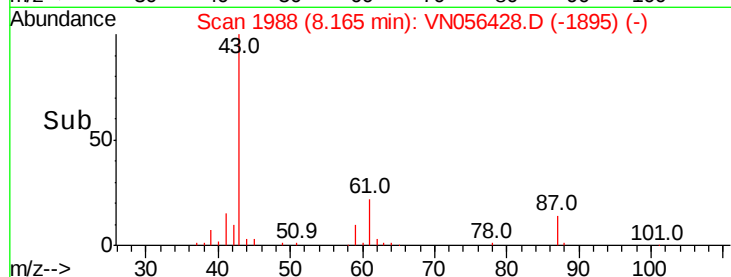
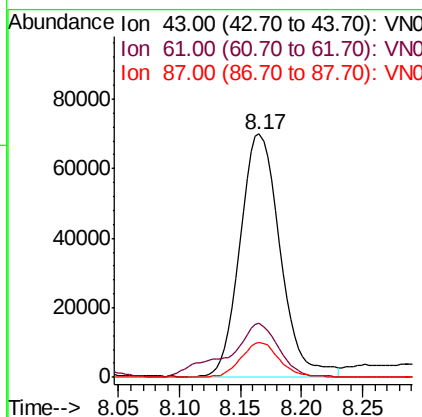
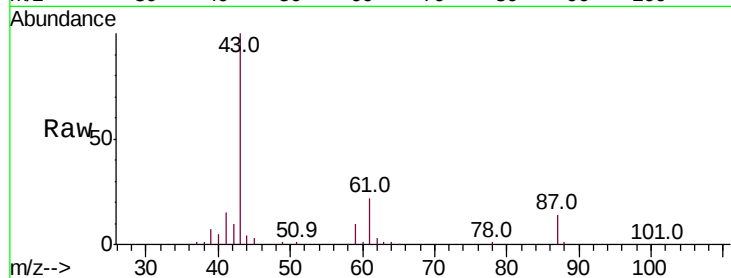
ClientSampleId :

VN0621MBSD01

Tot Ion:	43	Resp:	158291
Ion Ratio	Lower	Upper	
43	100		
61	28.4	22.0	33.0
87	13.9	11.0	16.4

Manual Integrations
APPROVED

MMDadoda
6/24/2019 4:16:17 PM



#44

Trichloroethene

Concen: 19.707 ug/l

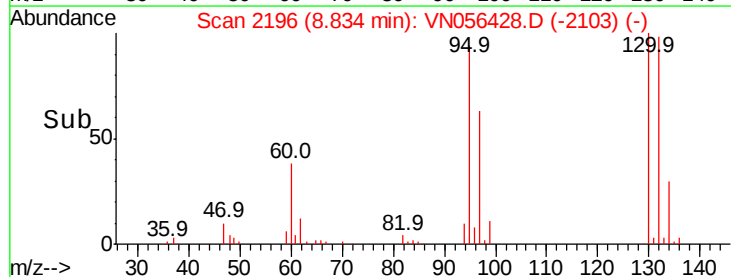
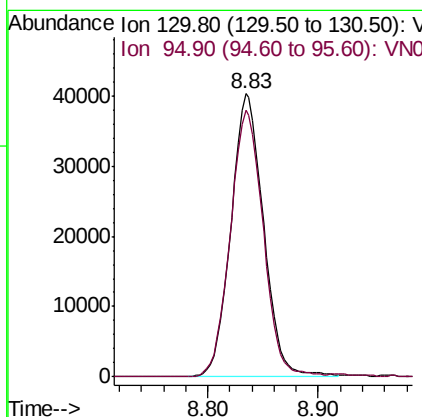
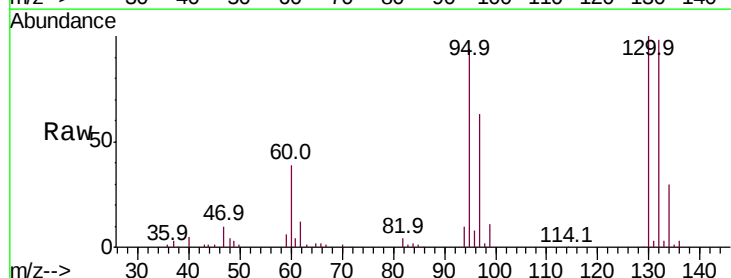
RT: 8.83 min Scan# 2196

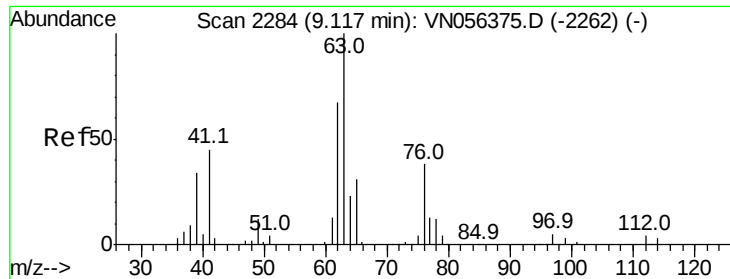
Delta R.T. 0.00 min

Lab File: VN056428.D

Acq: 21 Jun 2019 16:02

Tgt Ion:	130	Resp:	82657
Ion Ratio	Lower	Upper	
130	100		
95	94.1	0.0	191.0





#45

1,2-Dichloropropane

Concen: 20.174 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN056428.D

Acq: 21 Jun 2019 16:02

Instrument :

MSVOA_N

ClientSampleId :

VN0621MBSD01

Tot Ion: 63 Resp: 84008

Ion Ratio Lower Upper

63 100

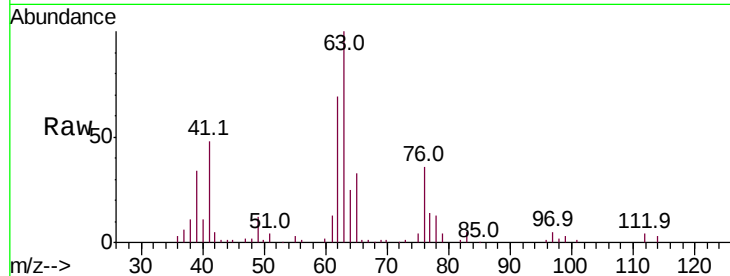
65 32.5 25.0 37.6

Manual Integrations

APPROVED

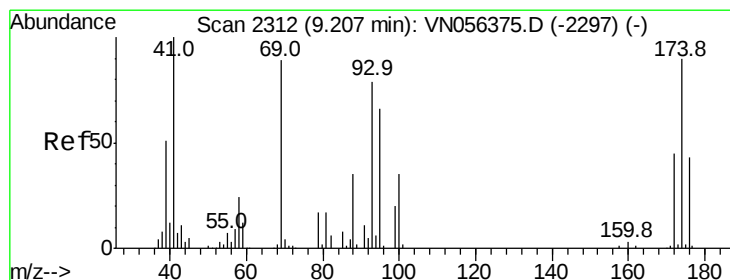
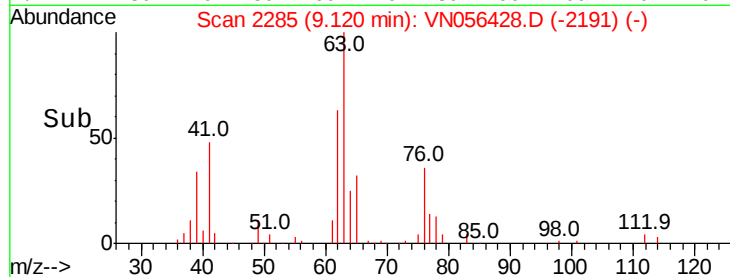
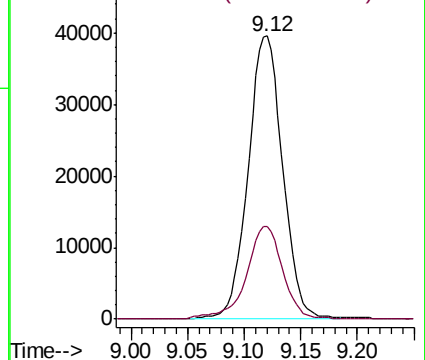
MMDadoda

6/24/2019 4:16:17 PM



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#46

Dibromomethane

Concen: 20.073 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. 0.00 min

Lab File: VN056428.D

Acq: 21 Jun 2019 16:02

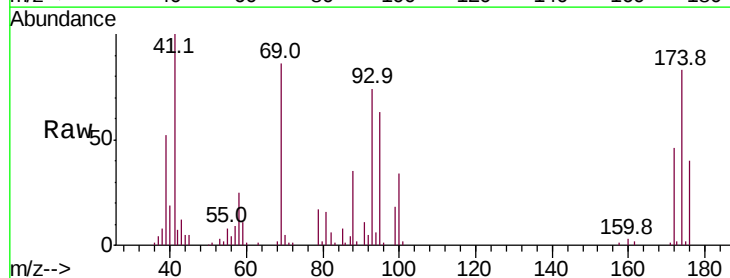
Tgt Ion: 93 Resp: 52294

Ion Ratio Lower Upper

93 100

95 84.6 66.2 99.2

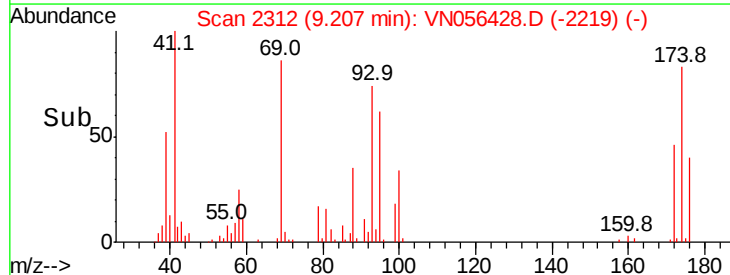
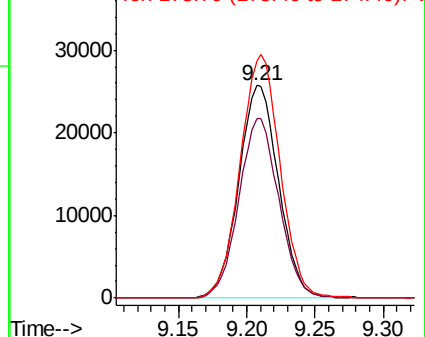
174 114.9 90.8 136.2

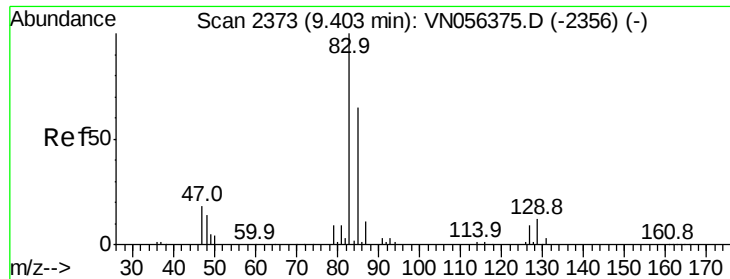


Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V





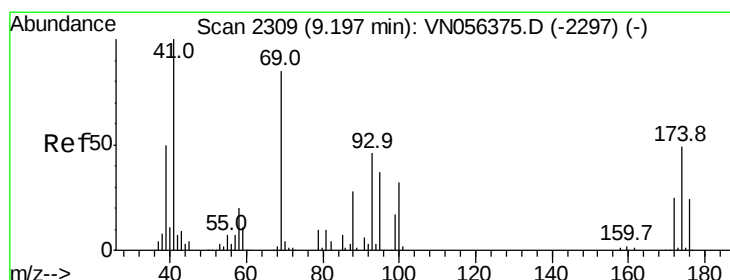
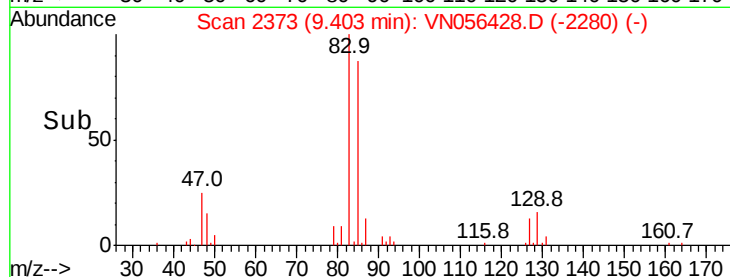
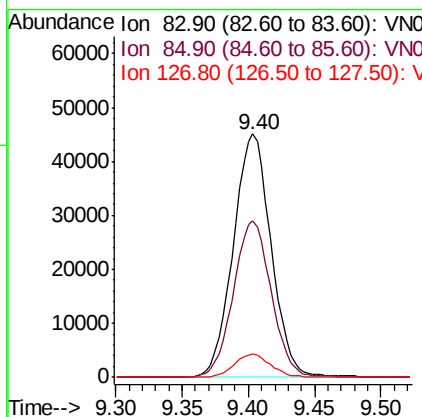
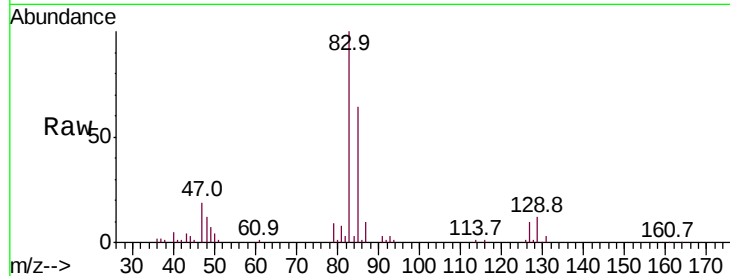
#47
Bromodichloromethane
Concen: 19.320 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Instrument :
MSVOA_N
ClientSampleId :
VN0621MBSD01

Tot Ion	83	Resp	89268
Ion Ratio	100	Lower	Upper
83	100		
85	64.1	52.2	78.4
127	9.7	7.3	10.9

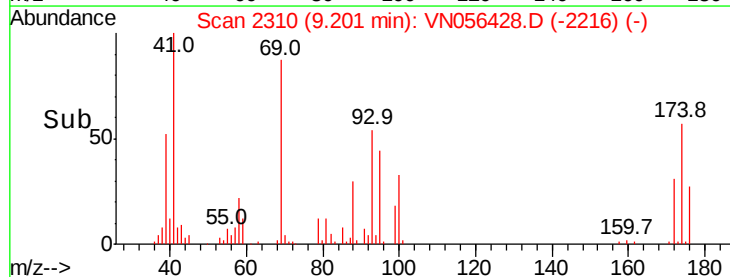
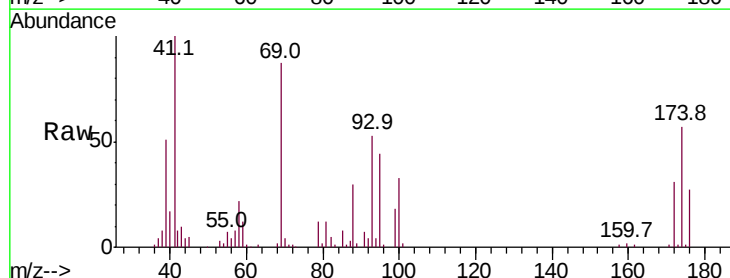
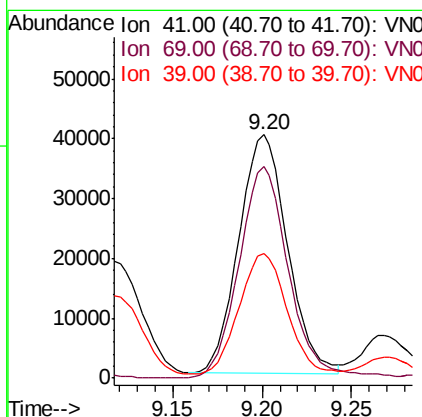
Manual Integrations
APPROVED

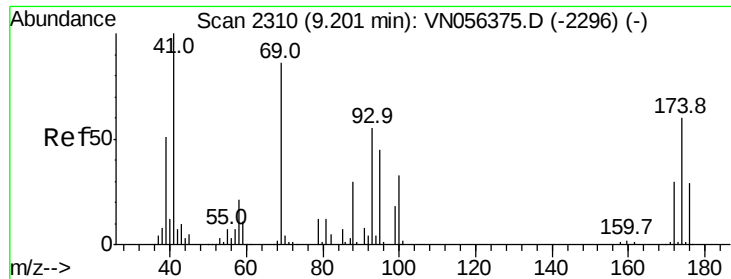
MMDadoda
6/24/2019 4:16:17 PM



#48
Methyl methacrylate
Concen: 19.851 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Tgt Ion	41	Resp	76306
Ion Ratio	100	Lower	Upper
41	100		
69	90.1	72.6	109.0
39	52.6	42.6	63.8





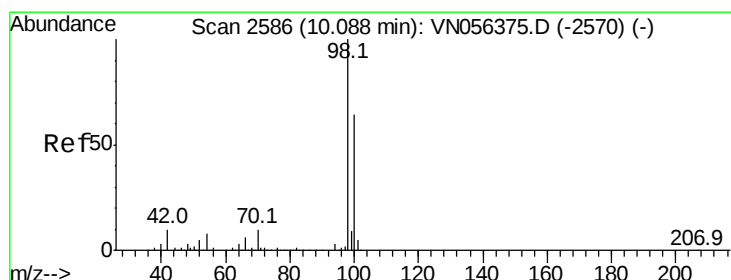
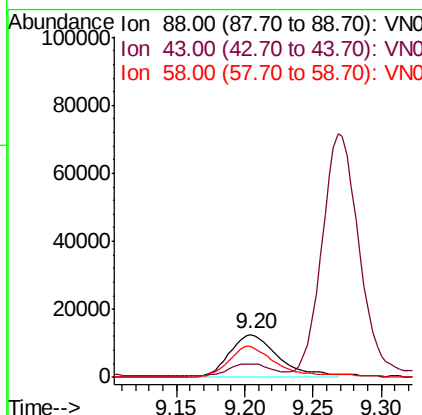
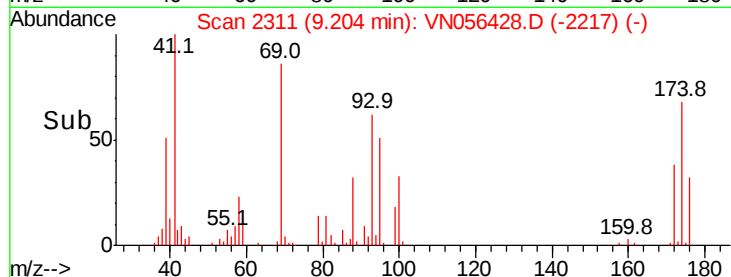
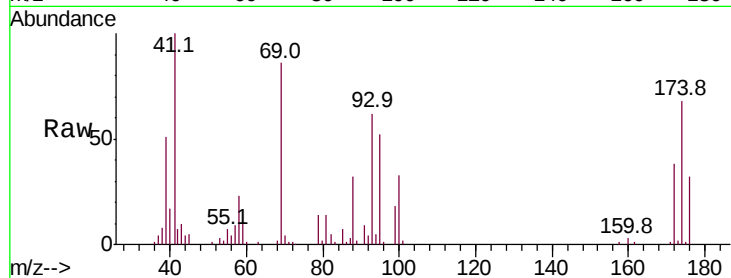
#49
1,4-Dioxane
Concen: 394.034 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Instrument :
MSVOA_N
ClientSampleId :
VN0621MBSD01

Tot Ion	88	Resp	31432
Ion	Ratio	Lower	Upper
88	100		
43	25.6	22.0	33.0
58	70.3	51.8	77.8

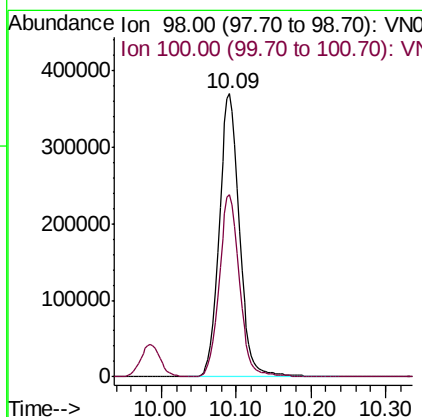
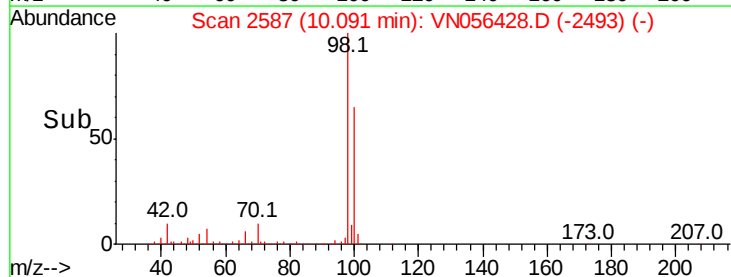
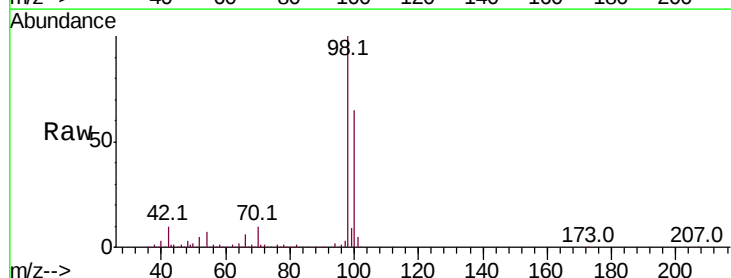
Manual Integrations
APPROVED

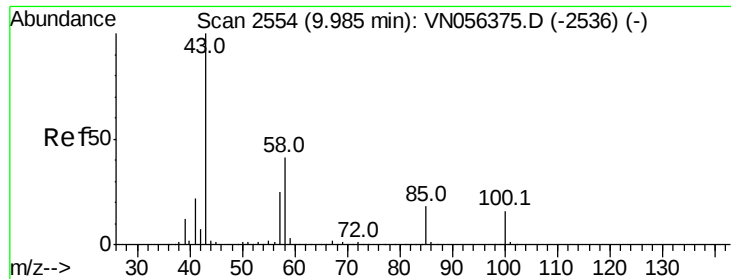
MMDadoda
6/24/2019 4:16:17 PM



#50
Toluene-d8
Concen: 49.432 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Tgt Ion	98	Resp	690070
Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.2	78.2





#51

4-Methyl-2-Pentanone

Concen: 102.256 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN056428.D

Acq: 21 Jun 2019 16:02

Instrument :

MSVOA_N

ClientSampleId :

VN0621MBSD01

Tot Ion: 43 Resp: 506263

Ion Ratio Lower Upper

43 100

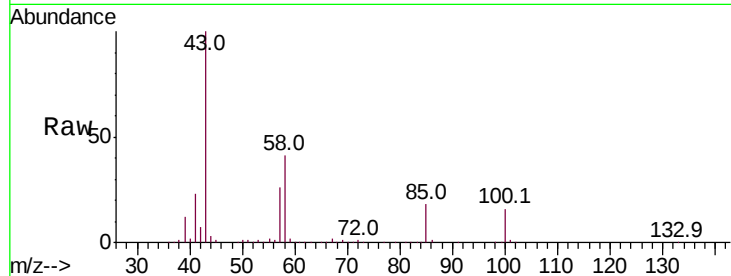
58 40.4 31.8 47.8

Manual Integrations

APPROVED

MMDadoda

6/24/2019 4:16:17 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.99

250000

200000

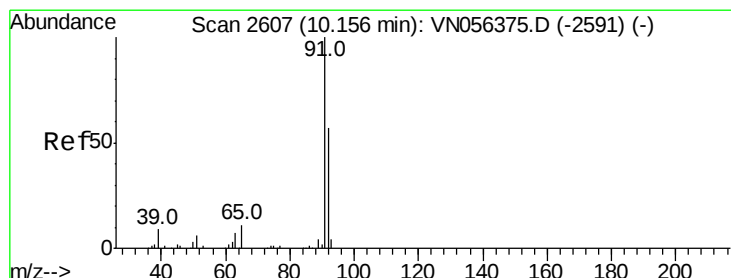
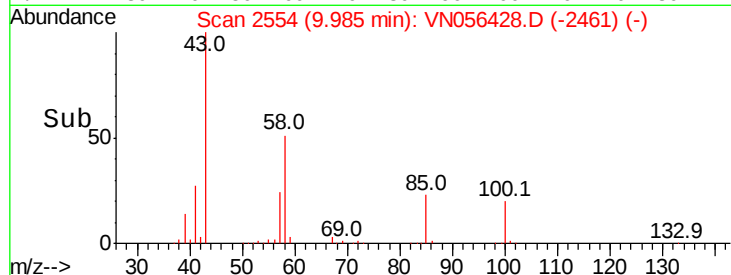
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 20.068 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN056428.D

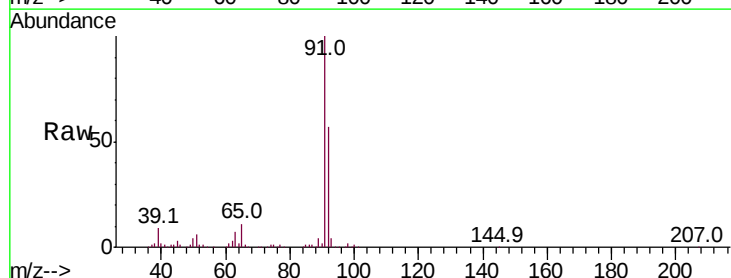
Acq: 21 Jun 2019 16:02

Tgt Ion: 92 Resp: 191035

Ion Ratio Lower Upper

92 100

91 174.2 140.6 211.0



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

200000

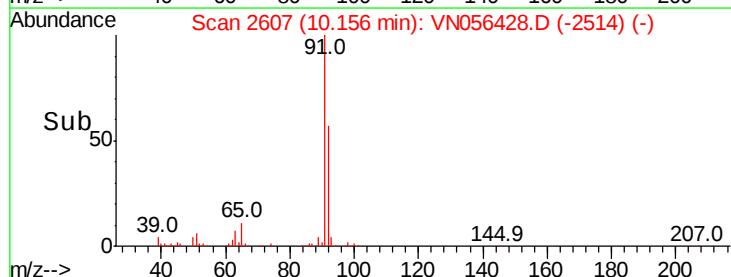
150000

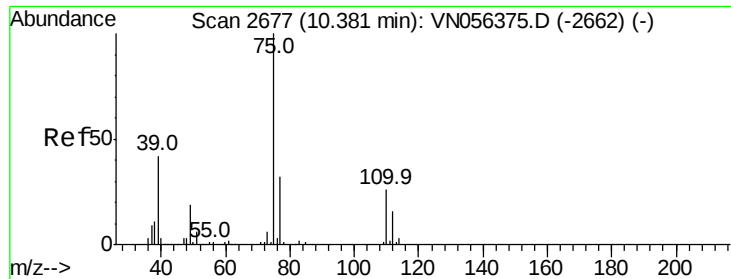
100000

50000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 18.776 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN056428.D

Acq: 21 Jun 2019 16:02

Instrument :

MSVOA_N

ClientSampleId :

VN0621MBSD01

Tot Ion: 75 Resp: 90731

Ion Ratio Lower Upper

75 100

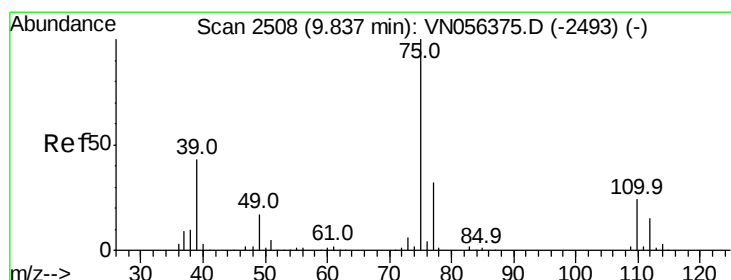
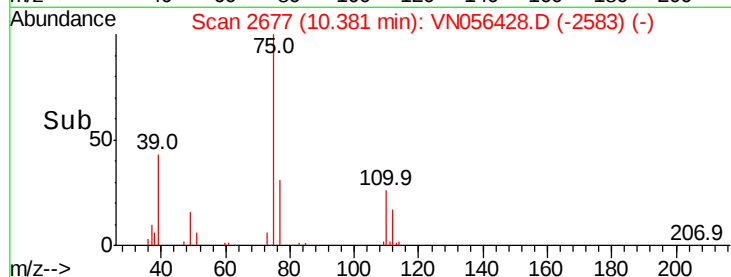
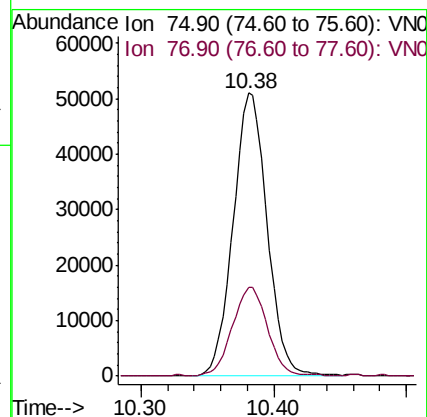
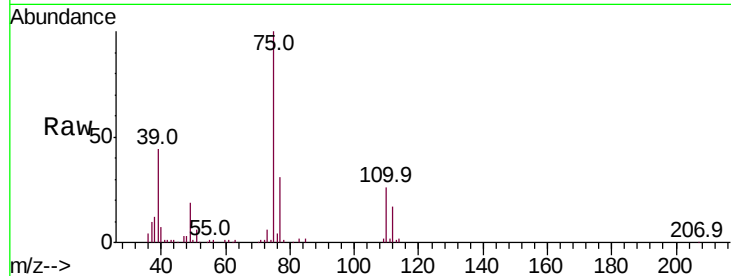
77 31.2 25.4 38.2

Manual Integrations

APPROVED

MMDadoda

6/24/2019 4:16:17 PM



#54

cis-1,3-Dichloropropene

Concen: 19.681 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN056428.D

Acq: 21 Jun 2019 16:02

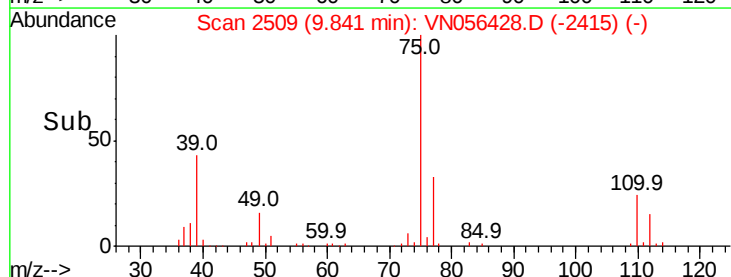
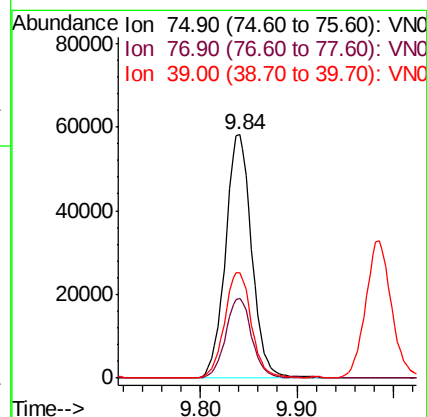
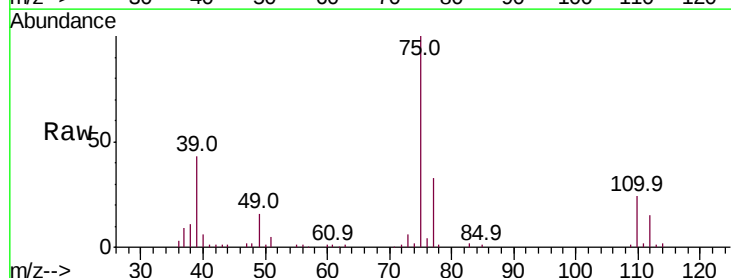
Tgt Ion: 75 Resp: 109509

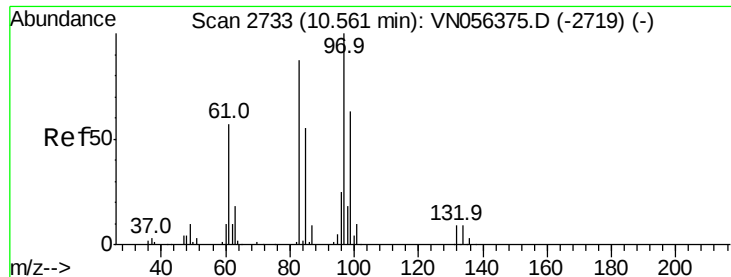
Ion Ratio Lower Upper

75 100

77 32.6 25.2 37.8

39 42.7 34.2 51.4





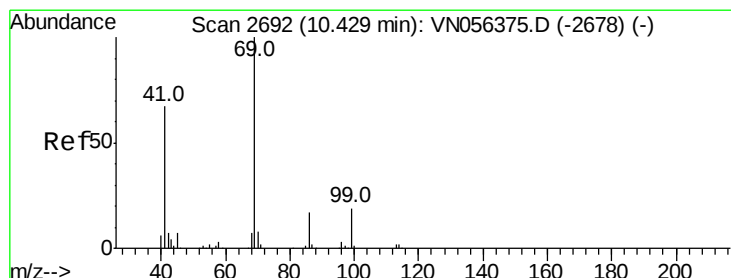
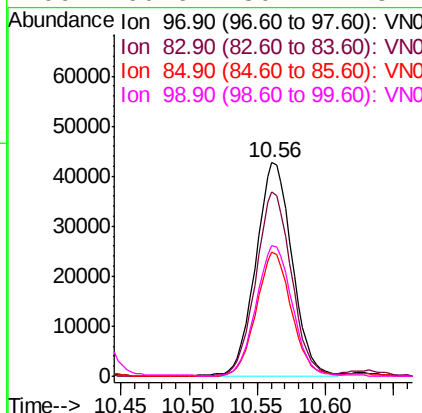
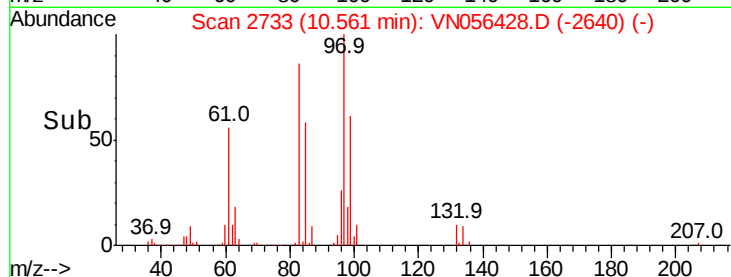
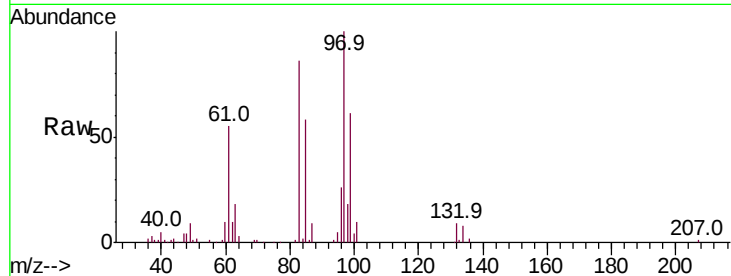
#55
 1,1,2-Trichloroethane
 Concen: 20.723 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN056428.D
 Acq: 21 Jun 2019 16:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0621MBS01

Tot Ion	97	Resp	79297
Ion	Ratio	Lower	Upper
97	100		
83	86.2	69.8	104.6
85	57.9	43.8	65.8
99	60.6	50.2	75.2

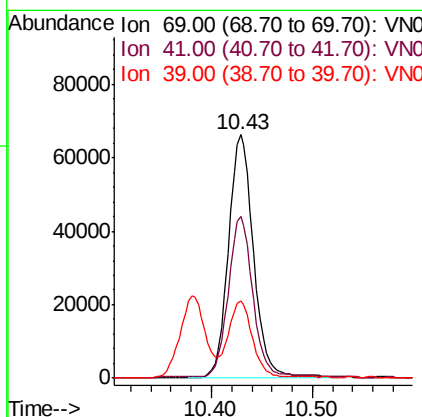
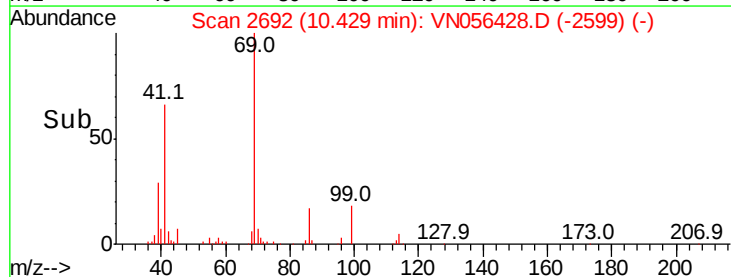
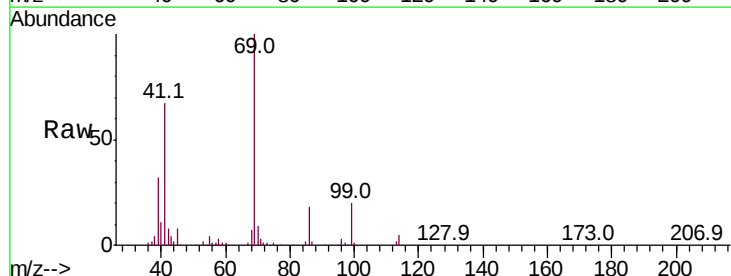
Manual Integrations
 APPROVED

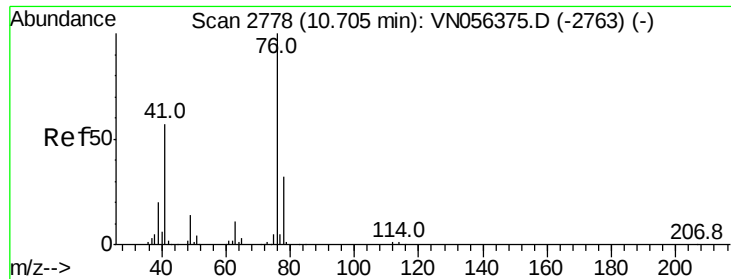
MMDadoda
 6/24/2019 4:16:17 PM



#56
 Ethyl methacrylate
 Concen: 20.703 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN056428.D
 Acq: 21 Jun 2019 16:02

Tgt Ion	69	Resp	115773
Ion	Ratio	Lower	Upper
69	100		
41	63.3	51.4	77.2
39	29.5	24.7	37.1





#57

1,3-Dichloropropane

Concen: 20.422 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN056428.D

Acq: 21 Jun 2019 16:02

Instrument :

MSVOA_N

ClientSampleId :

VN0621MBSD01

Tot Ion: 76 Resp: 131274

Ion Ratio Lower Upper

76 100

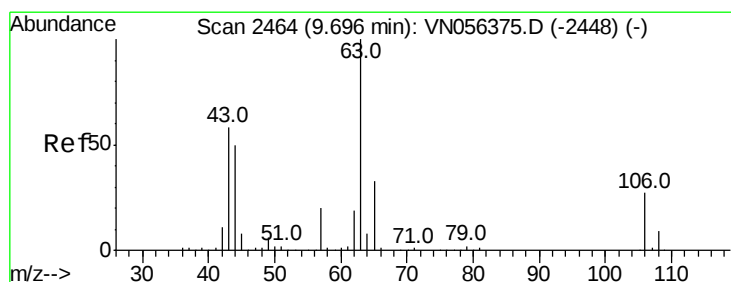
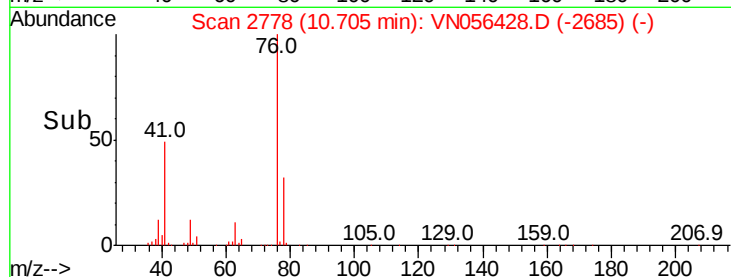
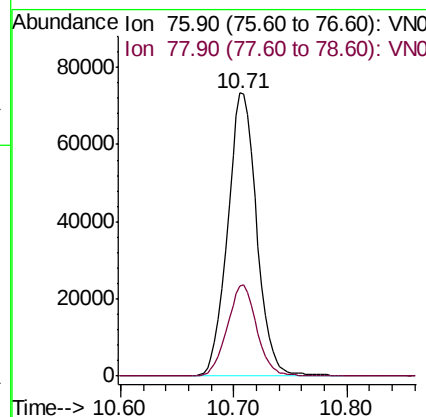
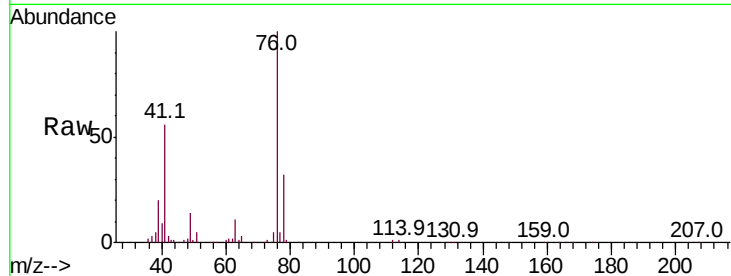
78 32.7 25.9 38.9

Manual Integrations

APPROVED

MMDadoda

6/24/2019 4:16:17 PM



#58

2-Chloroethyl Vinyl ether

Concen: 103.967 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN056428.D

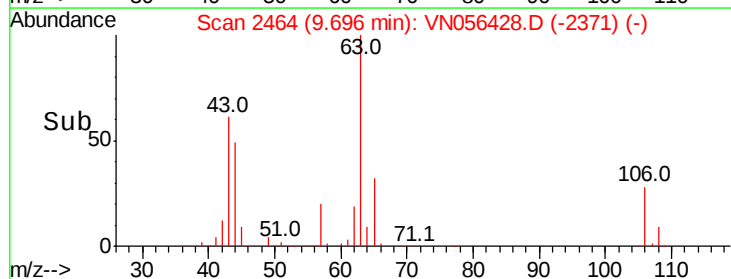
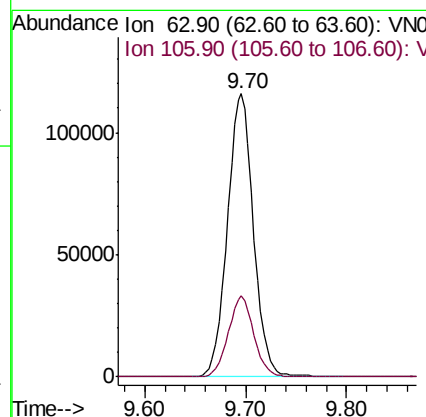
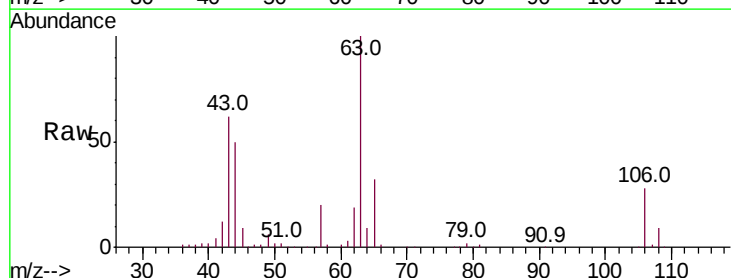
Acq: 21 Jun 2019 16:02

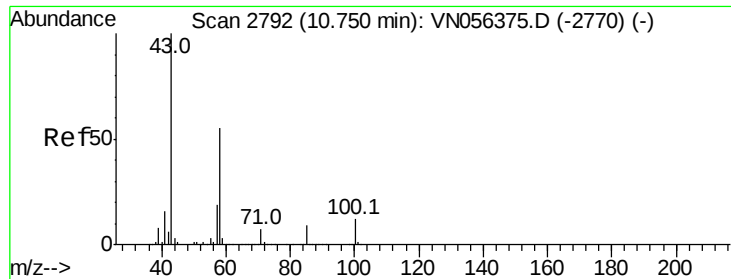
Tgt Ion: 63 Resp: 208864

Ion Ratio Lower Upper

63 100

106 27.9 21.6 32.4





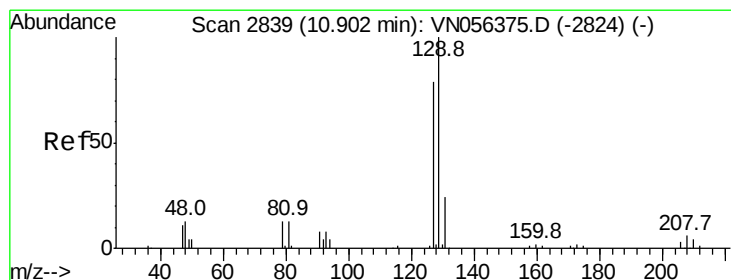
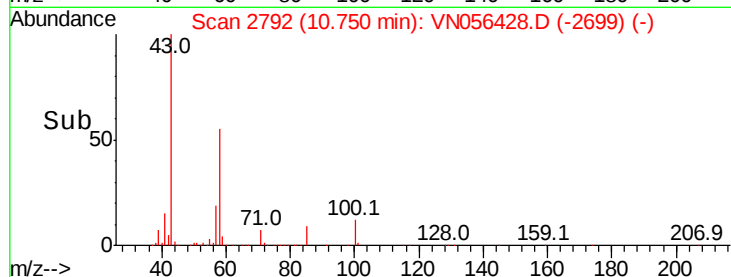
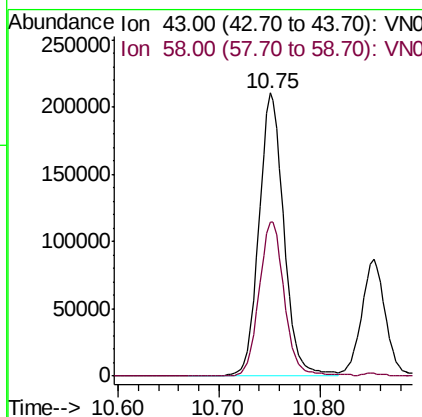
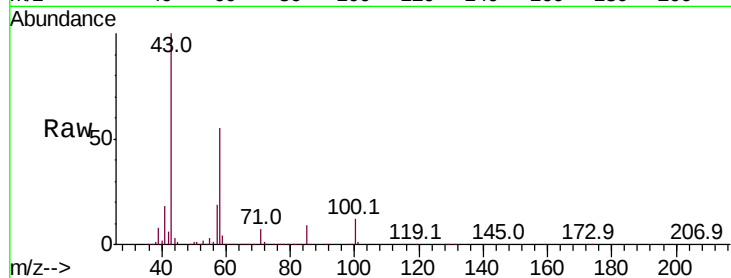
#59
2-Hexanone
Concen: 98.642 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Instrument :
MSVOA_N
ClientSampleId :
VN0621MBSD01

Tot Ion	43	58	Ratio	100	55.5	Resp	358934	Lower	Upper
Ion	43	58	Ratio	100	55.5	Resp	358934	Lower	Upper
								27.8	83.4

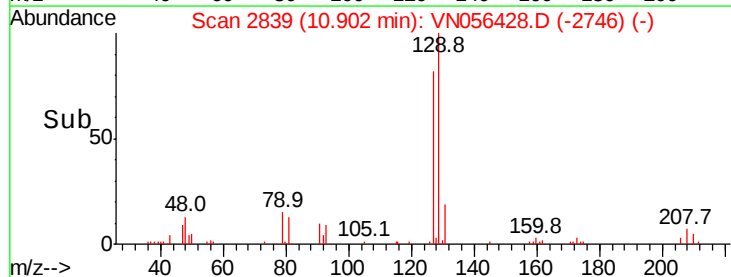
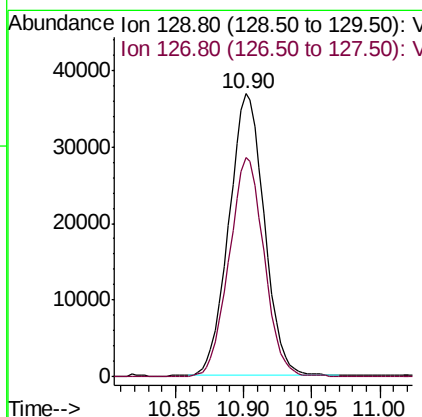
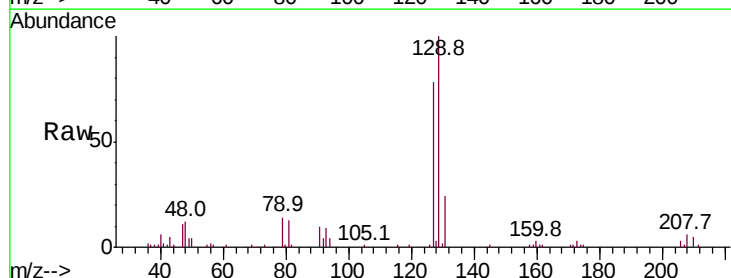
Manual Integrations
APPROVED

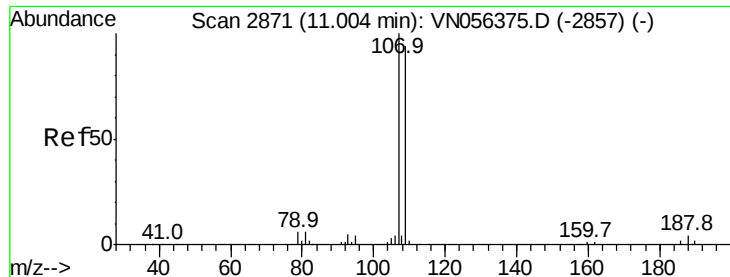
MMDadoda
6/24/2019 4:16:17 PM



#60
Dibromochloromethane
Concen: 18.387 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Tgt Ion	129	127	Ratio	100	76.9	Resp	66097	Lower	Upper
Ion	129	127	Ratio	100	76.9	Resp	66097	Lower	Upper
								38.9	116.7





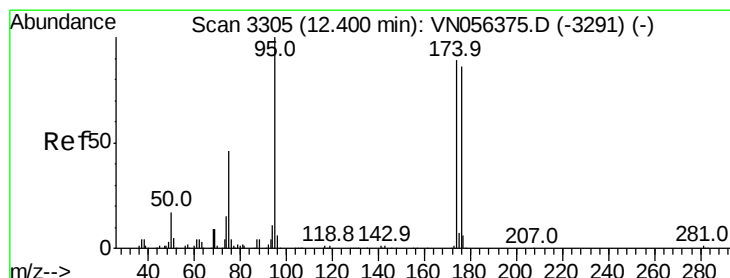
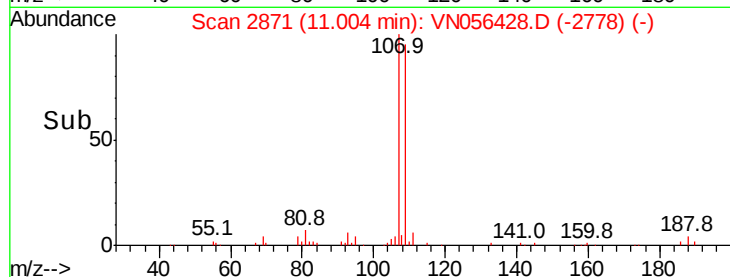
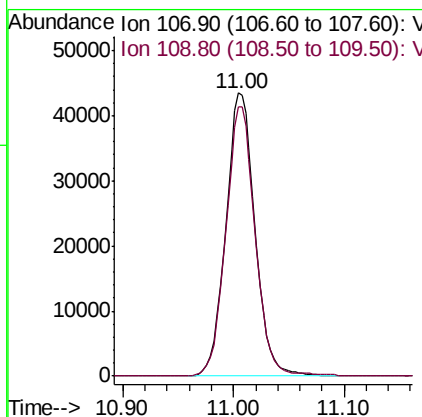
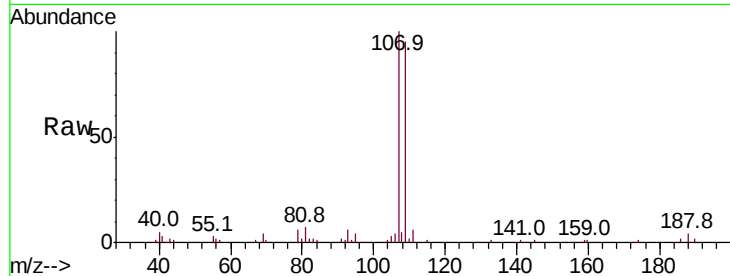
#61
1,2-Dibromoethane
Concen: 20.330 ug/l
RT: 11.00 min Scan# 2871
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Instrument :
MSVOA_N
ClientSampleId :
VN0621MBSD01

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.8	75.3	112.9

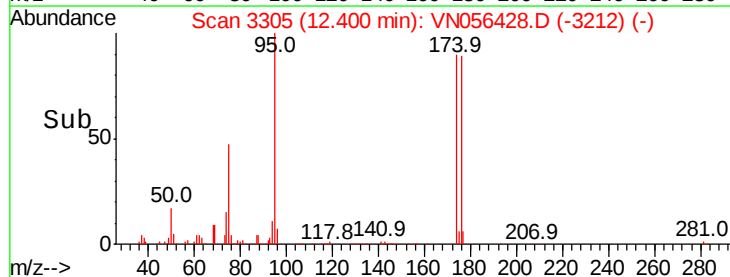
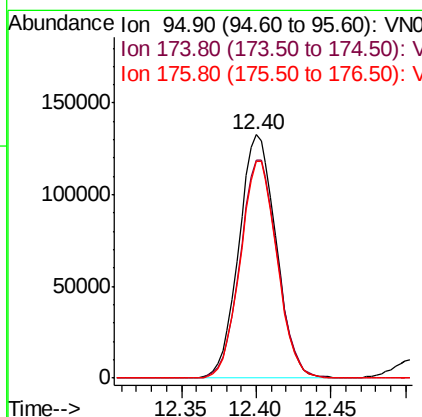
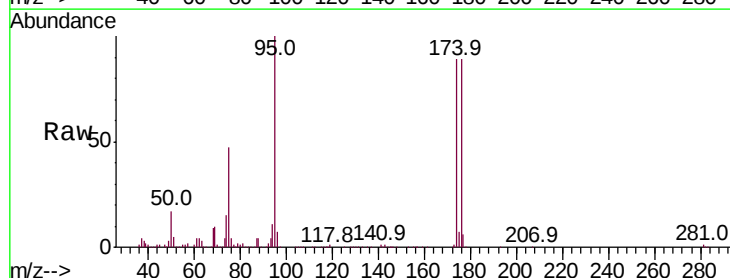
Manual Integrations
APPROVED

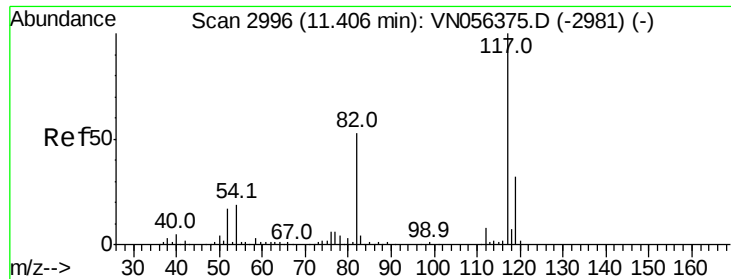
MMDadoda
6/24/2019 4:16:17 PM



#62
4-Bromofluorobenzene
Concen: 49.051 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Tgt Ion	Ratio	Lower	Upper
95	100		
174	90.5	0.0	179.4
176	88.5	0.0	173.4





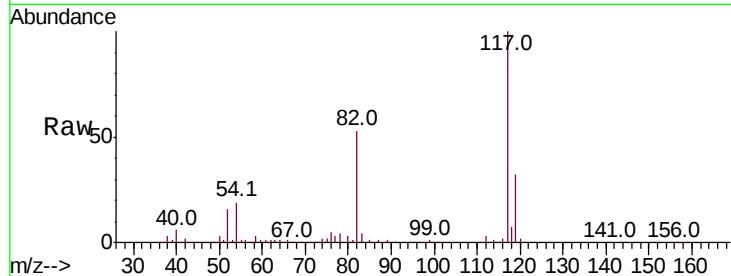
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Instrument :
MSVOA_N
ClientSampleId :
VN0621MBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.3	42.0	63.0
119	32.4	25.3	37.9

Manual Integrations
APPROVED

MMDadoda
6/24/2019 4:16:17 PM

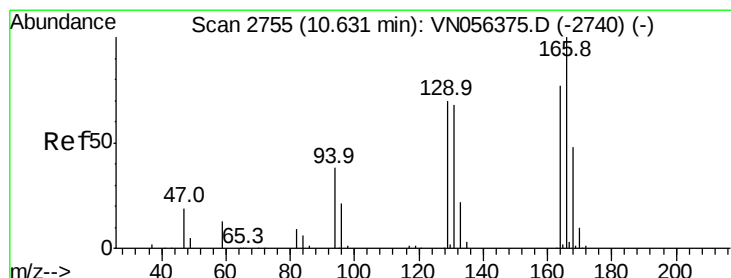
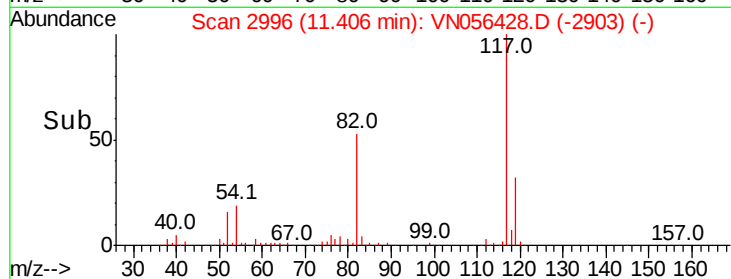
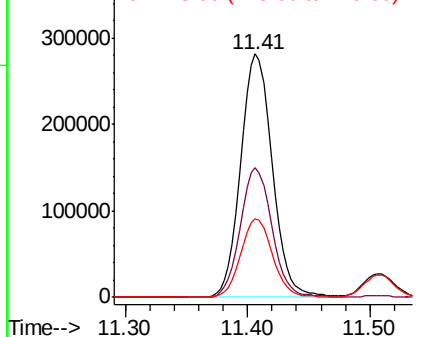


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 21.084 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.2	103.4	155.0
129	85.7	72.0	108.0
131	83.3	70.2	105.2

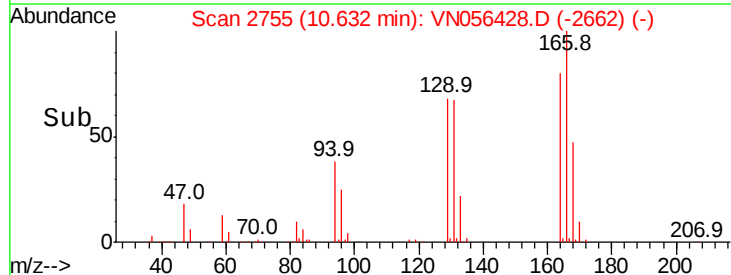
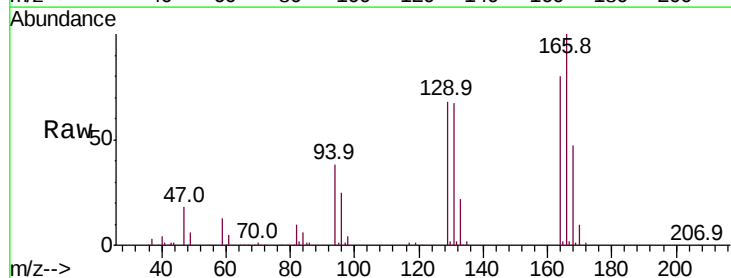
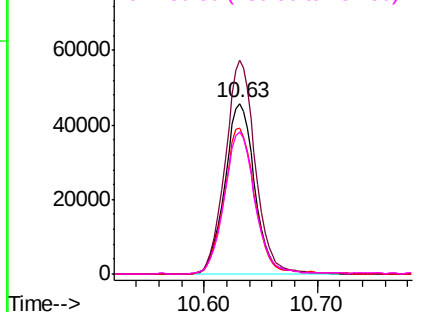
Abundance

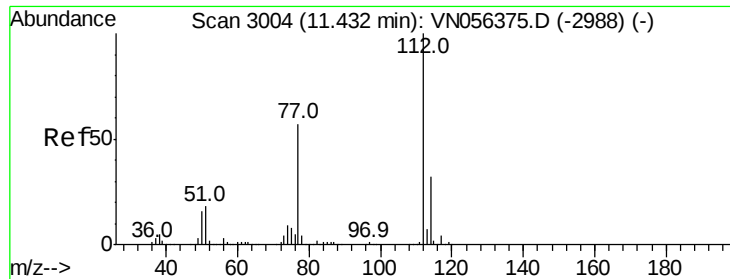
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





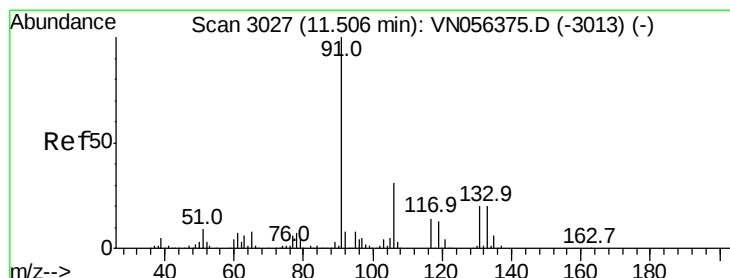
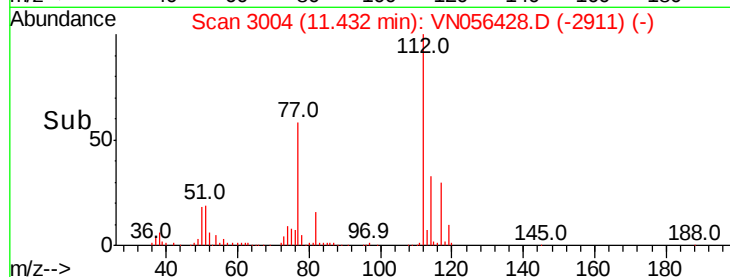
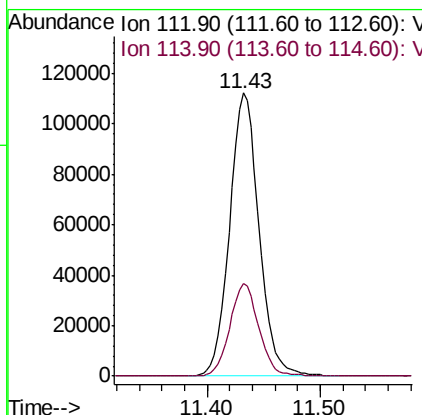
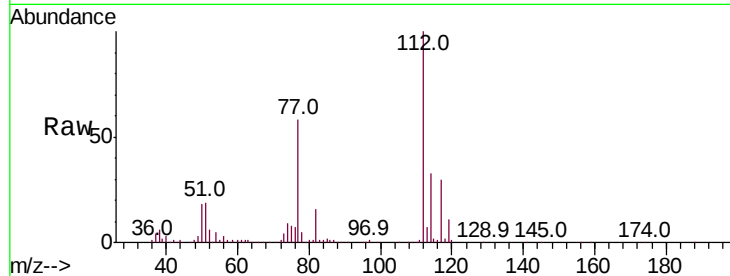
#65
Chlorobenzene
Concen: 20.011 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Instrument :
MSVOA_N
ClientSampleId :
VN0621MBSD01

Tot Ion:112 Resp: 202783
Ion Ratio Lower Upper
112 100
114 32.7 25.4 38.2

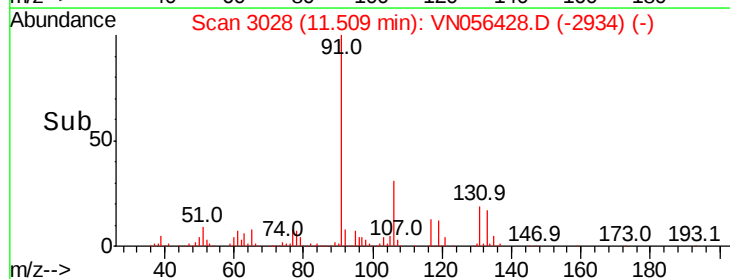
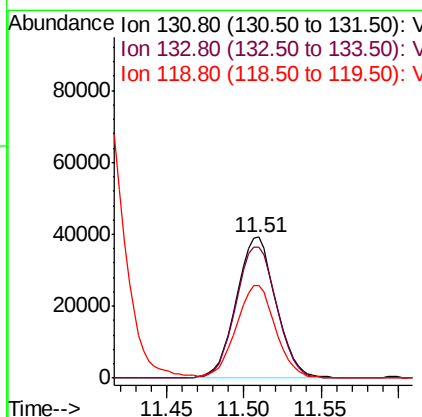
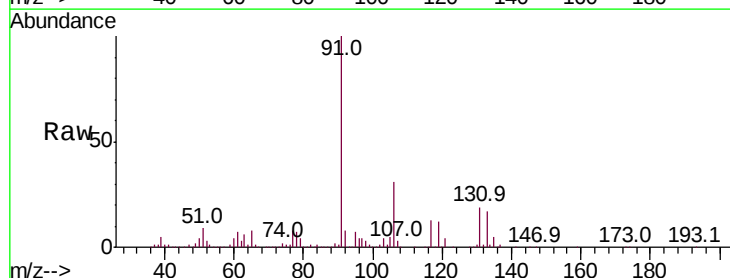
Manual Integrations
APPROVED

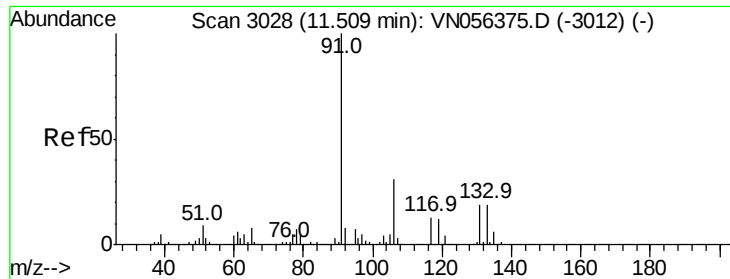
MMDadoda
6/24/2019 4:16:17 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.139 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Tgt Ion:131 Resp: 68973
Ion Ratio Lower Upper
131 100
133 97.1 47.4 142.2
119 64.8 32.8 98.4





#67

Ethyl Benzene

Concen: 20.105 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN056428.D

Acq: 21 Jun 2019 16:02

Instrument :

MSVOA_N

ClientSampleId :

VN0621MBS01

Tot Ion: 91 Resp: 357712

Ion Ratio Lower Upper

91 100

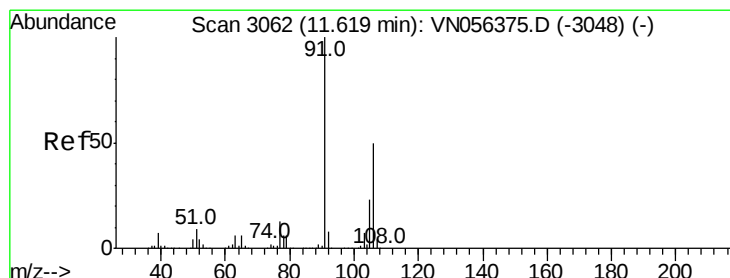
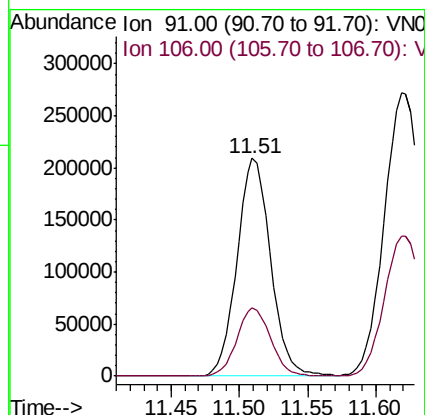
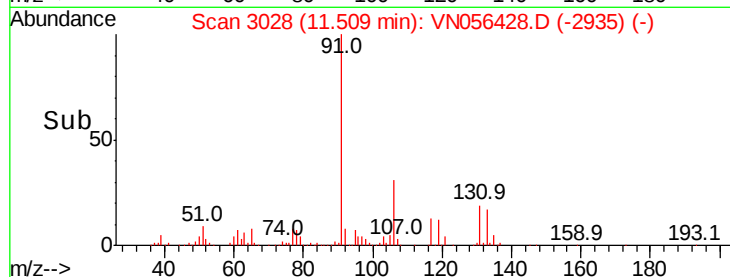
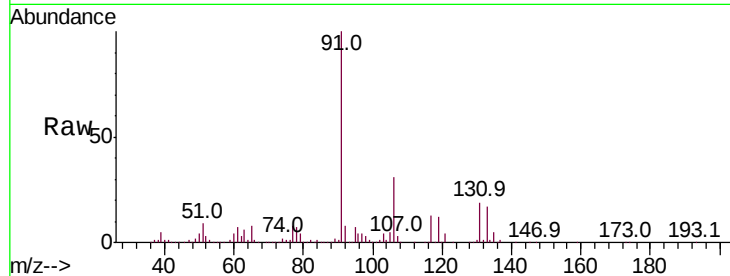
106 31.1 25.1 37.7

Manual Integrations

APPROVED

MMDadoda

6/24/2019 4:16:17 PM



#68

m/p-Xylenes

Concen: 40.617 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN056428.D

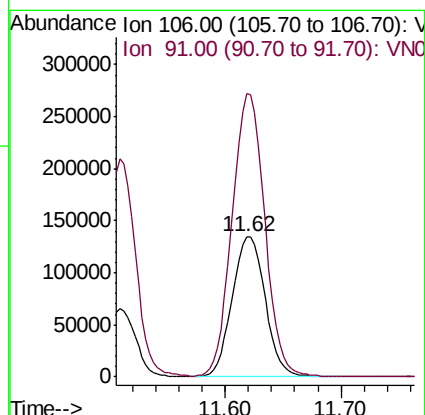
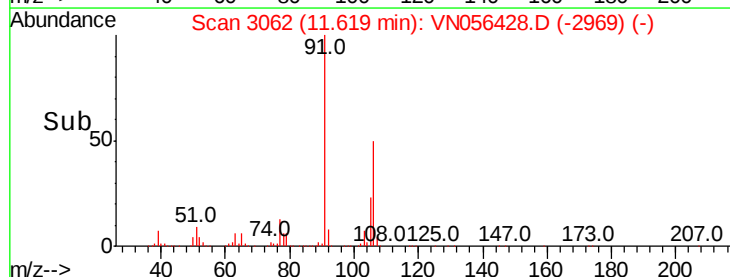
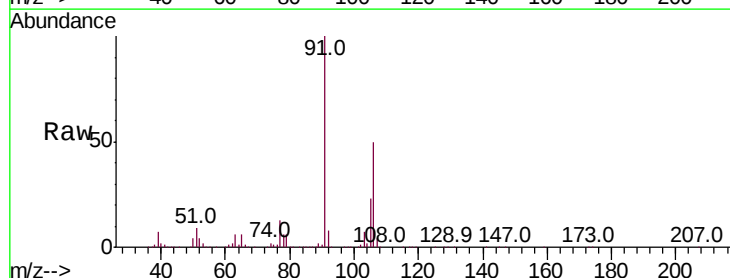
Acq: 21 Jun 2019 16:02

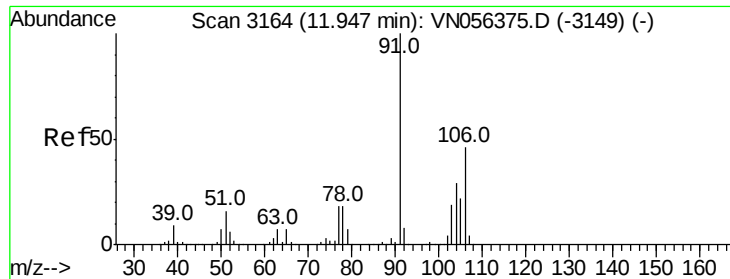
Tgt Ion: 106 Resp: 264850

Ion Ratio Lower Upper

106 100

91 200.3 160.1 240.1





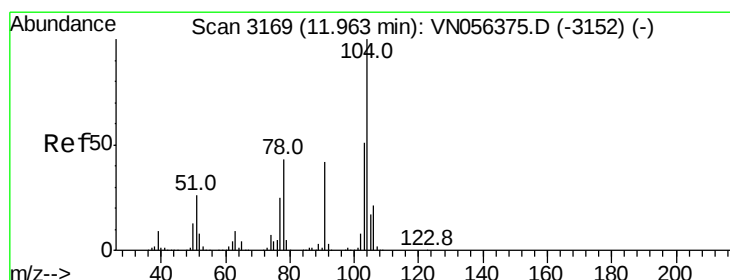
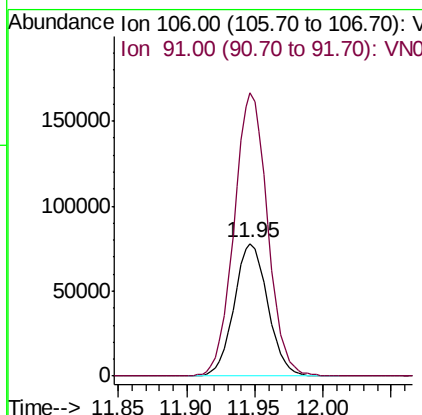
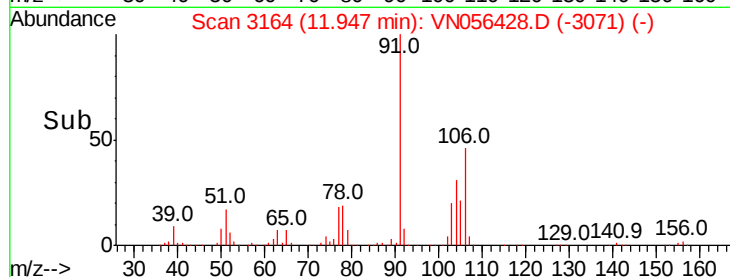
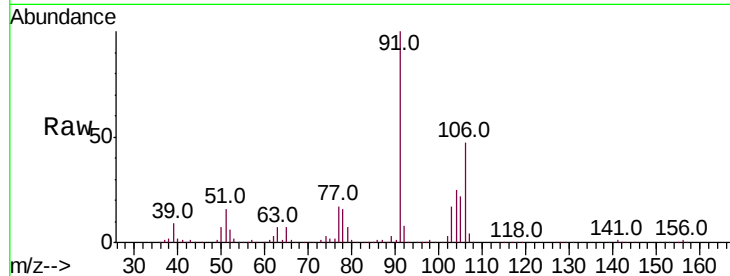
#69
o-Xylene
Concen: 20.691 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Instrument :
MSVOA_N
ClientSampleId :
VN0621MBSD01

Tot Ion:106 Resp: 133477
Ion Ratio Lower Upper
106 100
91 211.7 107.1 321.3

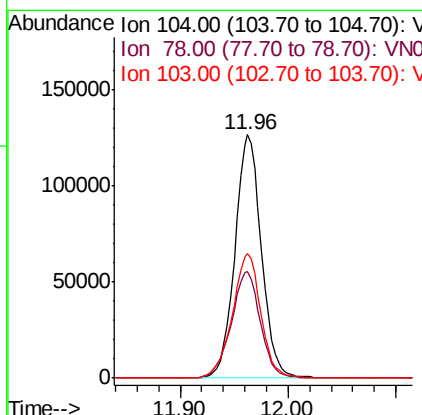
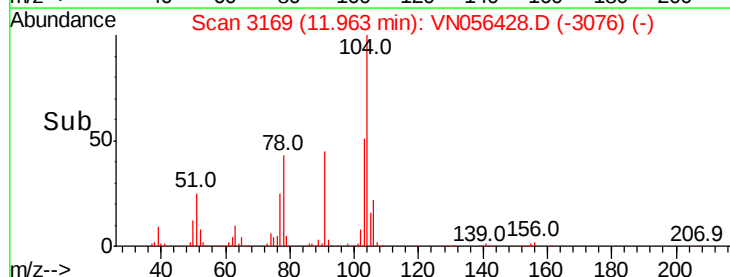
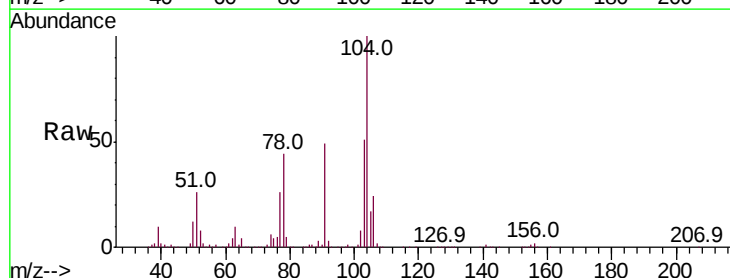
Manual Integrations
APPROVED

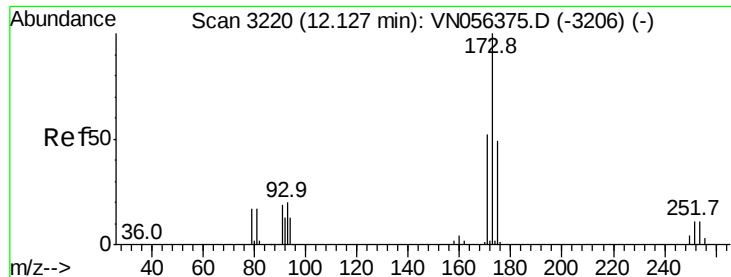
MMDadoda
6/24/2019 4:16:17 PM



#70
Styrene
Concen: 20.985 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Tgt Ion:104 Resp: 216384
Ion Ratio Lower Upper
104 100
78 48.1 38.6 57.8
103 55.0 43.9 65.9





#71

Bromoform

Concen: 18.122 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN056428.D

Acq: 21 Jun 2019 16:02

Instrument :

MSVOA_N

ClientSampleId :

VN0621MBSD01

Tot Ion:173 Resp: 44161

Ion Ratio Lower Upper

173 100

175 47.6 24.4 73.4

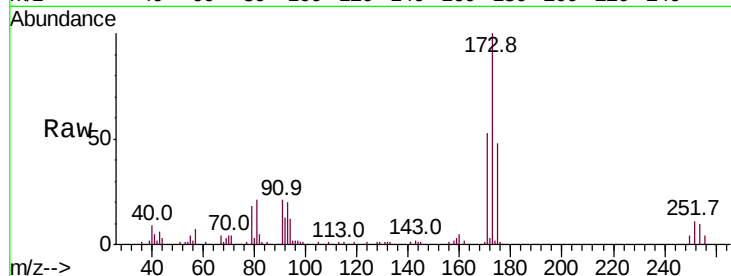
254 0.0 0.0 0.0

Manual Integrations

APPROVED

MMDadoda

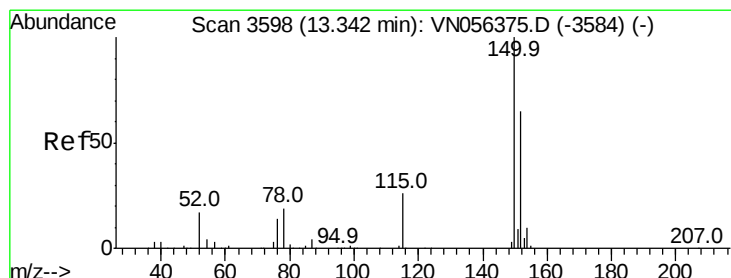
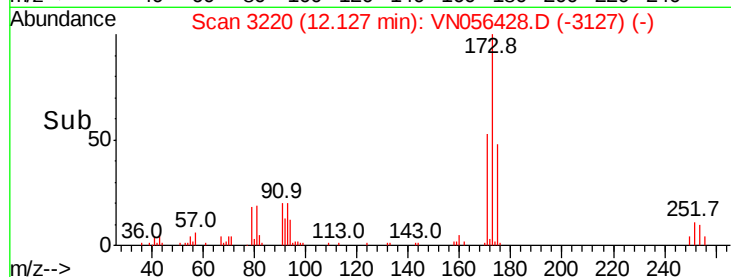
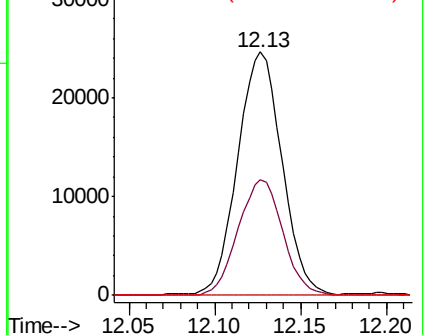
6/24/2019 4:16:17 PM



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN056428.D

Acq: 21 Jun 2019 16:02

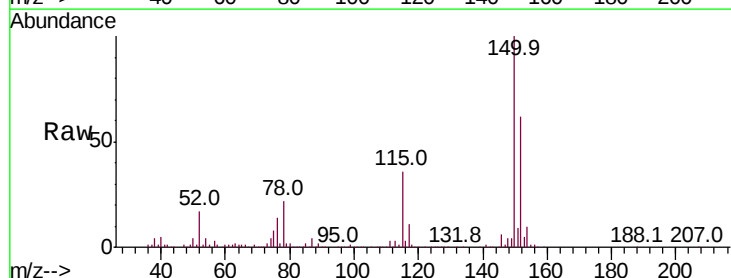
Tgt Ion:152 Resp: 197336

Ion Ratio Lower Upper

152 100

115 56.3 28.1 84.4

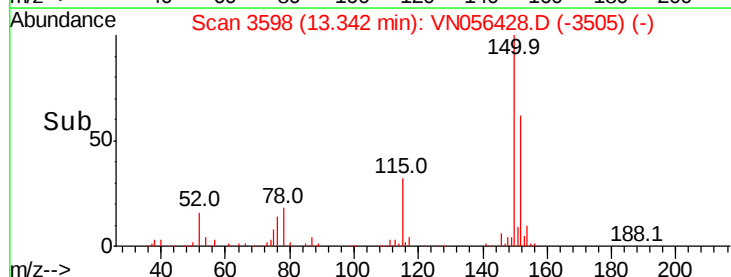
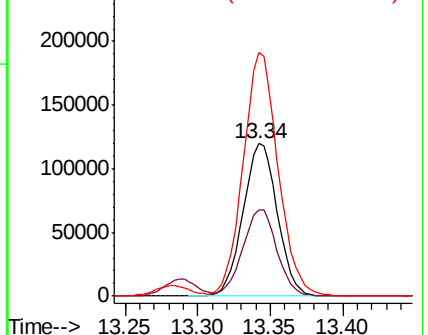
150 162.9 0.0 348.4

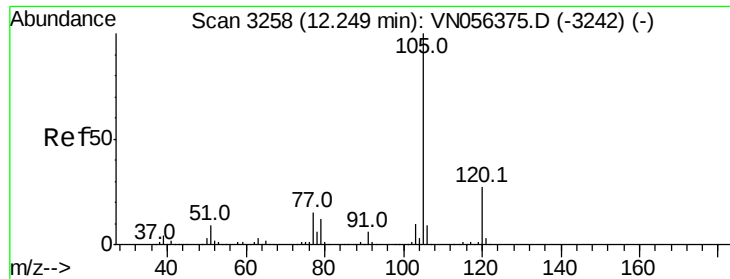


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 22.116 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN056428.D

Acq: 21 Jun 2019 16:02

Instrument :

MSVOA_N

ClientSampleId :

VN0621MBSD01

Tot Ion:105 Resp: 350022

Ion Ratio Lower Upper

105 100

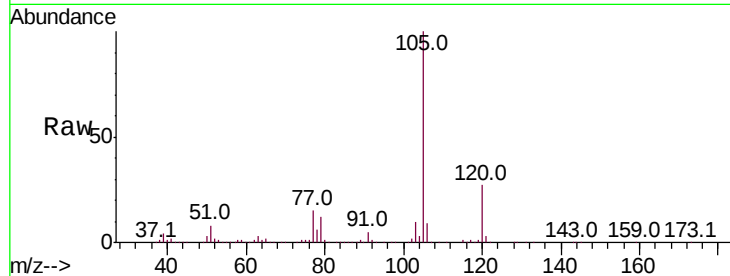
120 27.0 13.4 40.2

Manual Integrations

APPROVED

MMDadoda

6/24/2019 4:16:17 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

250000

200000

150000

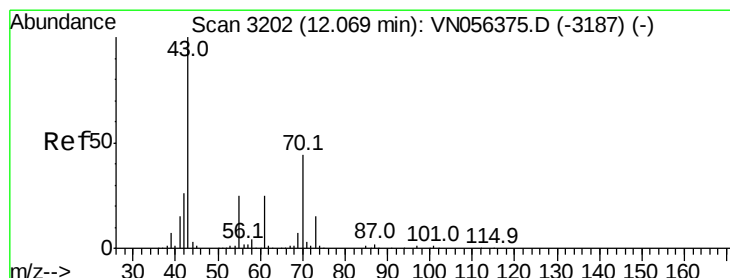
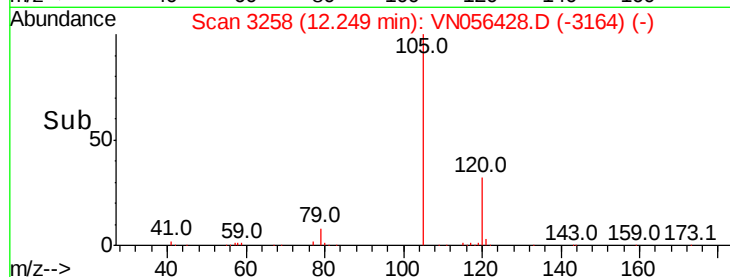
100000

50000

0

12.15 12.20 12.25 12.30

Time-->



#74

N-ethyl acetate

Concen: 21.288 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN056428.D

Acq: 21 Jun 2019 16:02

Tgt Ion: 43 Resp: 133700

Ion Ratio Lower Upper

43 100

70 41.6 34.9 52.3

55 24.2 20.4 30.6

61 24.0 19.8 29.8

Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

120000

100000

80000

60000

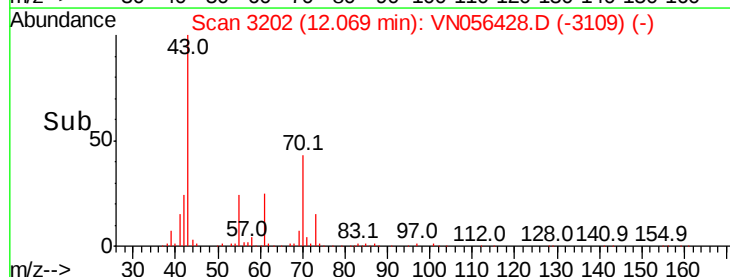
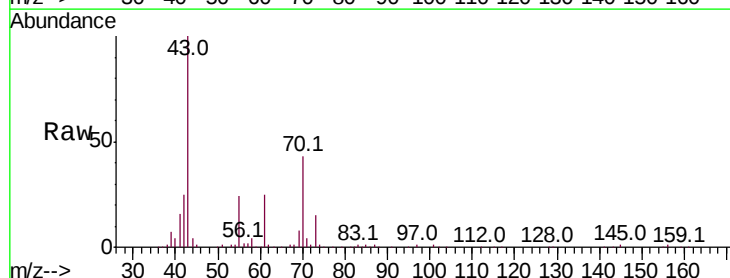
40000

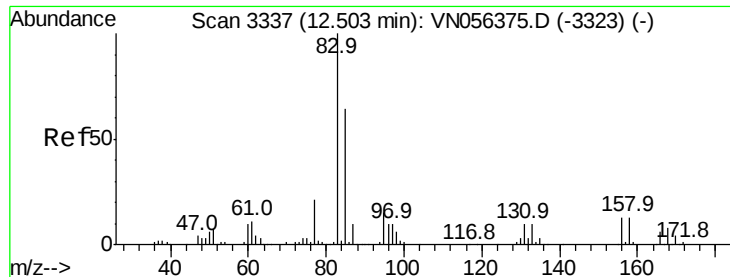
20000

0

12.00 12.10

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 22.016 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN056428.D

Acq: 21 Jun 2019 16:02

Instrument :

MSVOA_N

ClientSampleId :

VN0621MBSD01

Tot Ion: 83 Resp: 108918

Ion Ratio Lower Upper

83 100

131 11.1 5.3 15.8

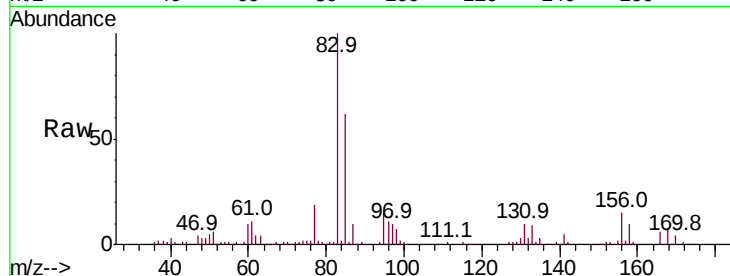
85 63.7 32.4 97.0

Manual Integrations

APPROVED

MMDadoda

6/24/2019 4:16:17 PM



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0

12.50

80000

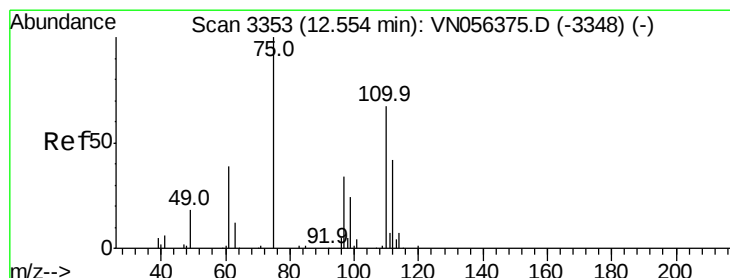
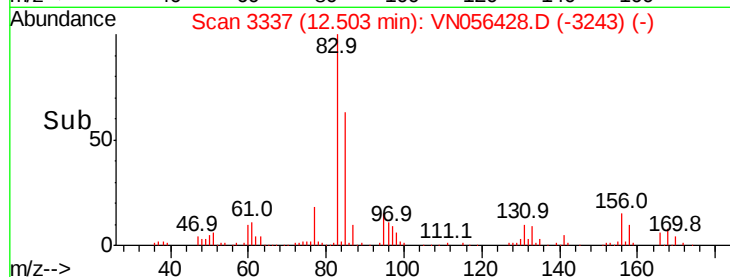
60000

40000

20000

0

Time-->



#76

1,2,3-Trichloropropane

Concen: 21.407 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN056428.D

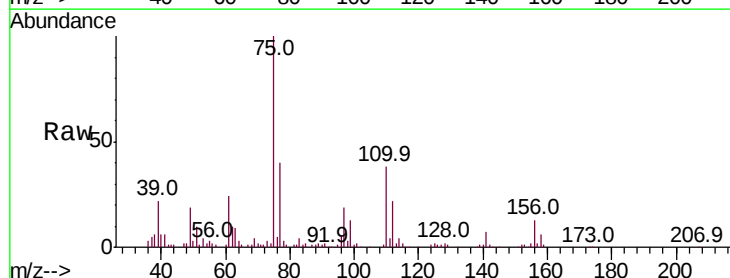
Acq: 21 Jun 2019 16:02

Tgt Ion: 75 Resp: 87592

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.55

80000

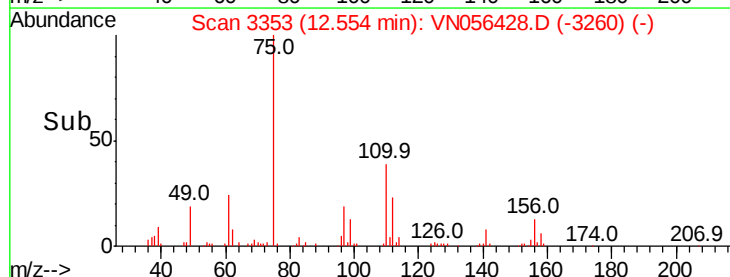
60000

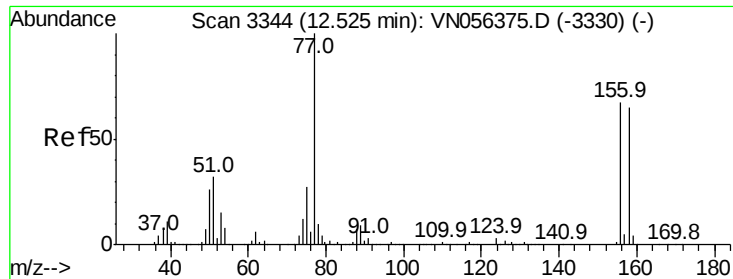
40000

20000

0

Time-->





#77

Bromobenzene

Concen: 26.418 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN056428.D

Acq: 21 Jun 2019 16:02

Instrument :

MSVOA_N

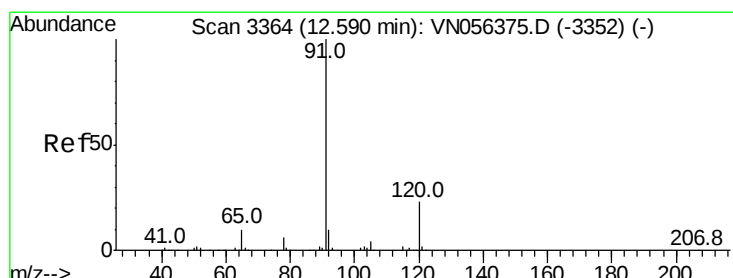
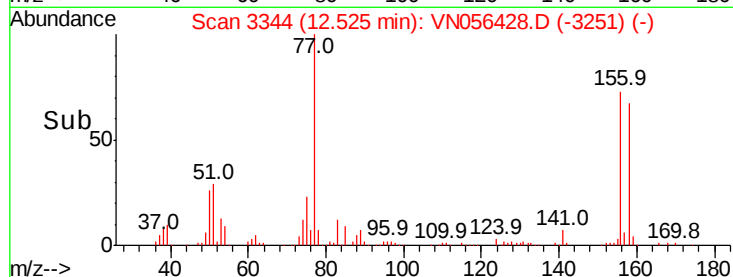
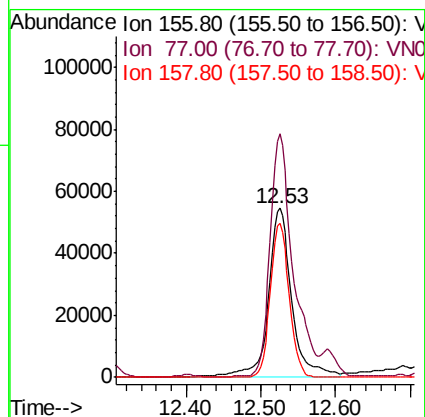
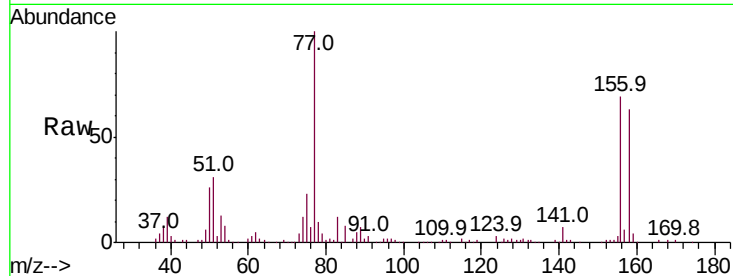
ClientSampleId :

VN0621MBSD01

Tot Ion:	156	Resp:	116566
Ion Ratio	Lower	Upper	
156	100		
77	142.1	92.5	277.3
158	74.4	48.7	146.1

Manual Integrations
APPROVED

MMDadoda
6/24/2019 4:16:17 PM



#78

n-propylbenzene

Concen: 20.256 ug/l

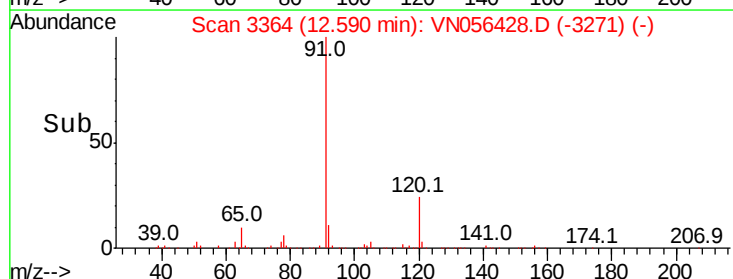
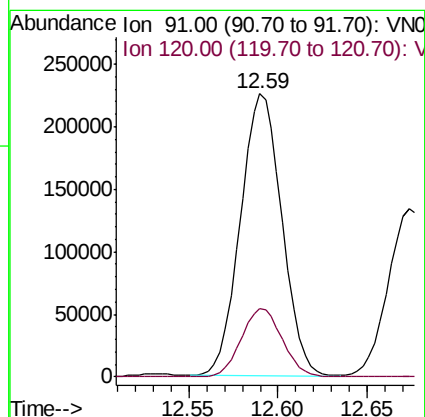
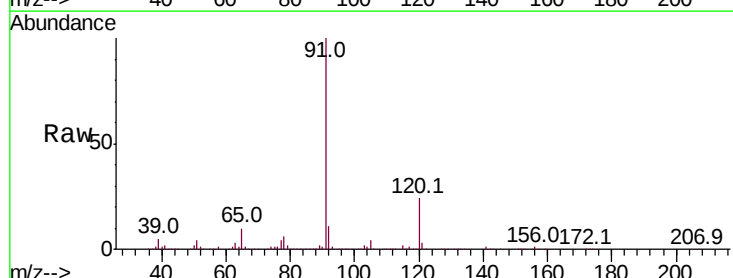
RT: 12.59 min Scan# 3364

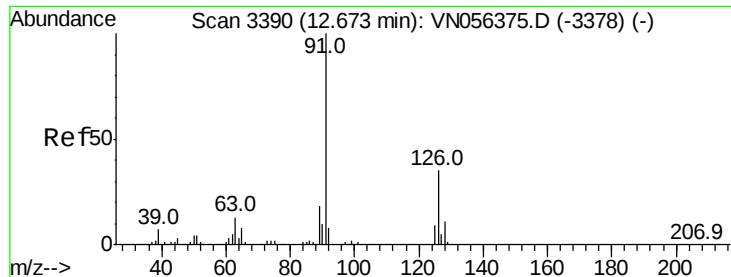
Delta R.T. 0.00 min

Lab File: VN056428.D

Acq: 21 Jun 2019 16:02

Tgt Ion:	91	Resp:	366056
Ion Ratio	Lower	Upper	
91	100		
120	24.0	11.8	35.4





#79

2-Chlorotoluene

Concen: 21.595 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN056428.D

Acq: 21 Jun 2019 16:02

Instrument :

MSVOA_N

ClientSampled :

VN0621MBSD01

Tot Ion: 91 Resp: 228226

Ion Ratio Lower Upper

91 100

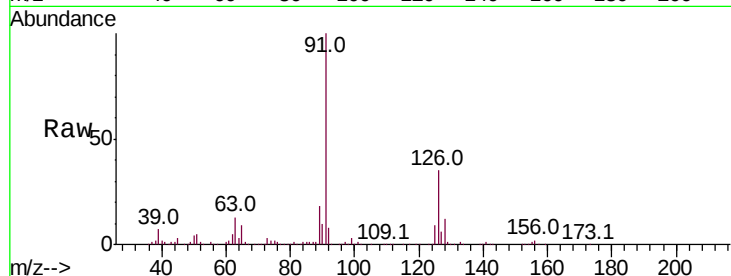
126 35.9 17.6 52.8

Manual Integrations

APPROVED

MMDadoda

6/24/2019 4:16:17 PM



Abundance Ion 91.00 (90.70 to 91.70): VN056375.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN056375.D (-3378) (-)

150000

100000

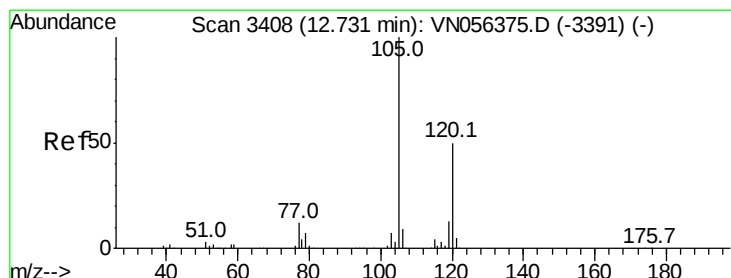
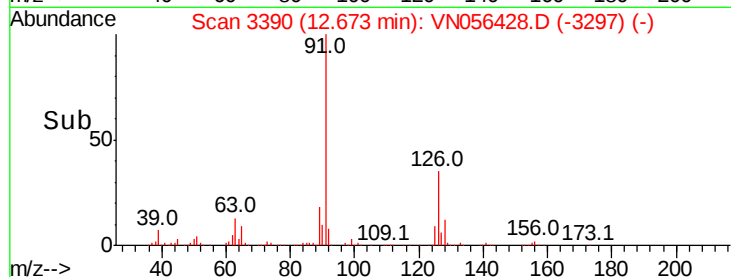
50000

0

12.60 12.65 12.70

12.67

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 21.744 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN056428.D

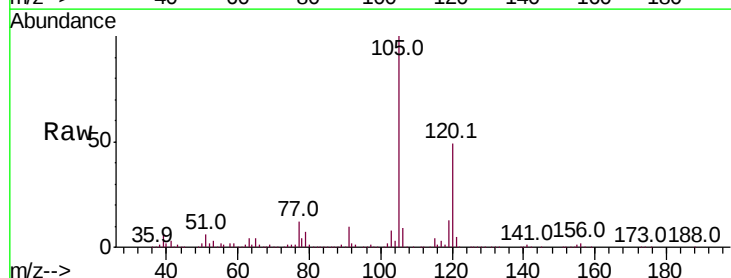
Acq: 21 Jun 2019 16:02

Tgt Ion: 105 Resp: 285899

Ion Ratio Lower Upper

105 100

120 49.1 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): VN056375.D (-3391) (-)

Ion 120.00 (119.70 to 120.70): VN056375.D (-3391) (-)

200000

150000

100000

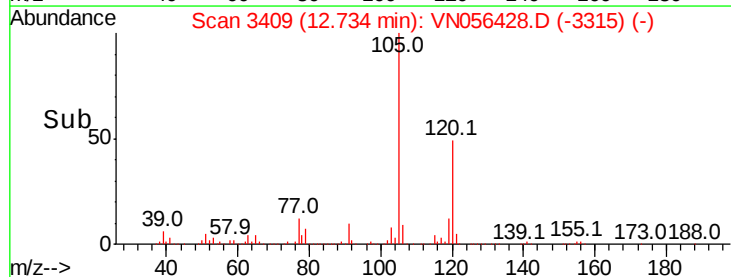
50000

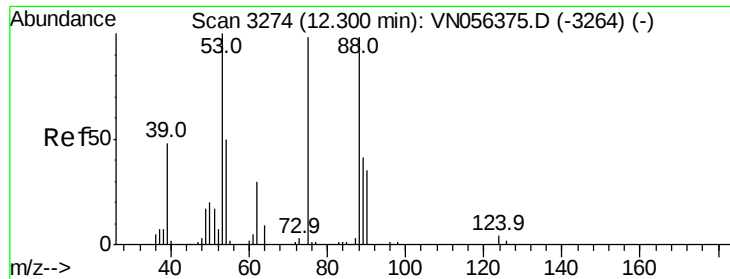
0

12.65 12.70 12.75 12.80

12.73

Time-->





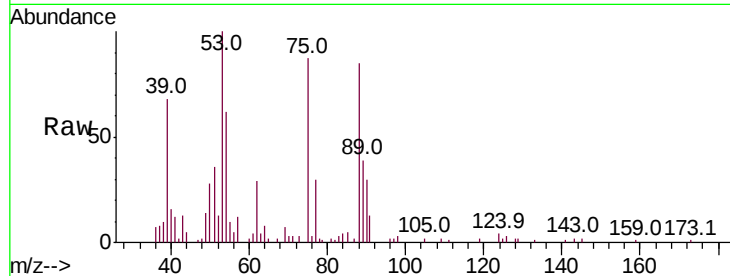
#81
trans-1,4-Dichloro-2-butene
Concen: 18.300 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Instrument :
MSVOA_N
ClientSampleId :
VN0621MBSD01

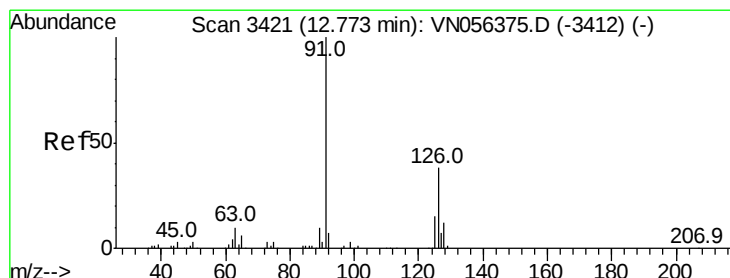
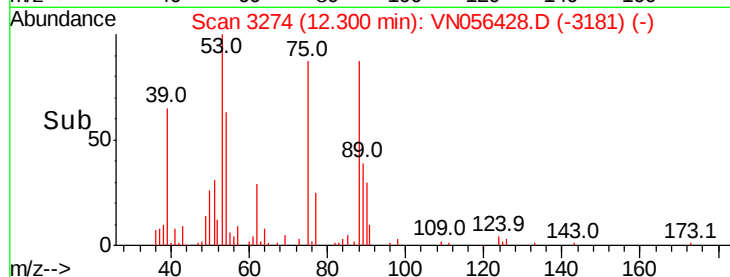
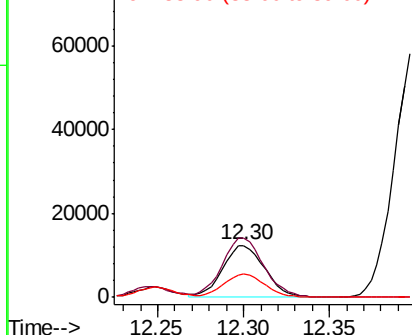
Tot Ion	Ratio	Lower	Upper
75	100		
53	111.7	83.9	125.9
89	44.9	35.0	52.6

Manual Integrations
APPROVED

MMDadoda
6/24/2019 4:16:17 PM

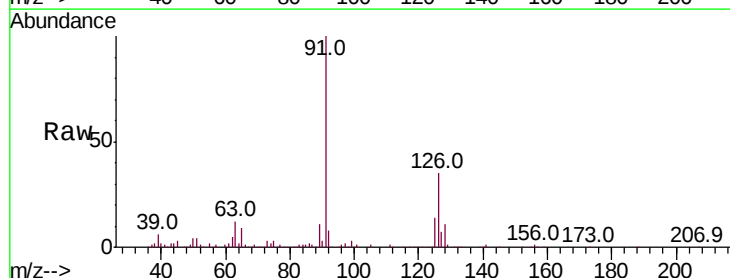


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0

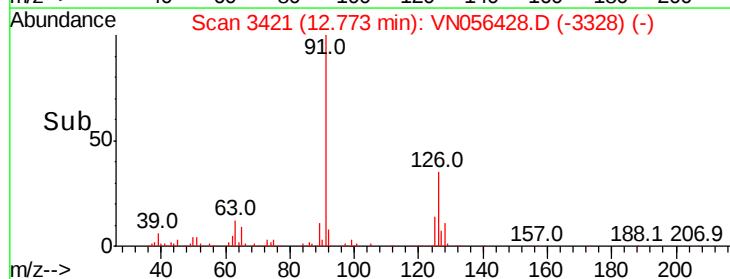
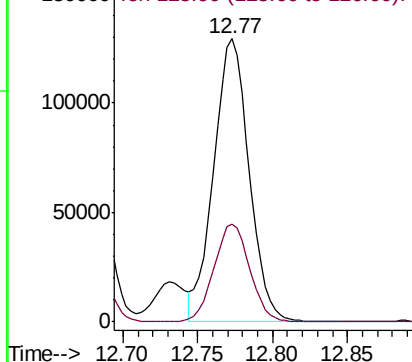


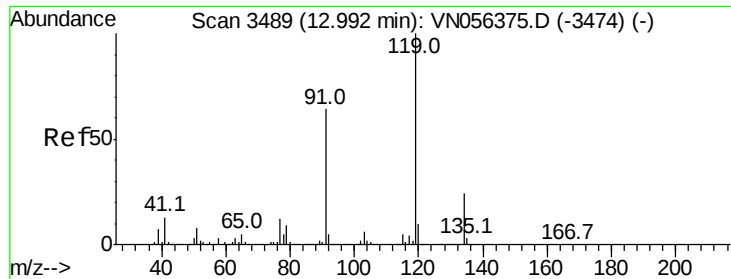
#82
4-Chlorotoluene
Concen: 19.841 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.1	17.3	52.0



Abundance Ion 91.00 (90.70 to 91.70): VN0
Ion 125.90 (125.60 to 126.60): V





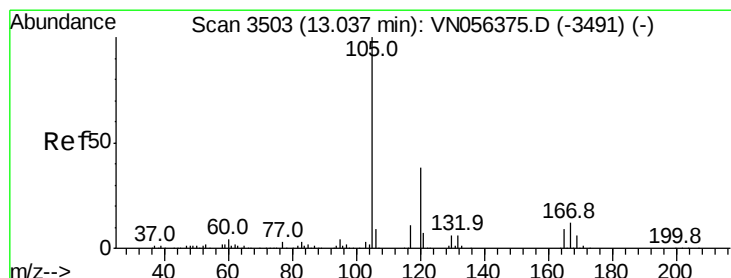
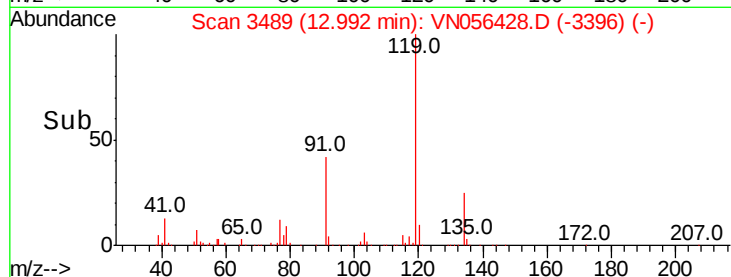
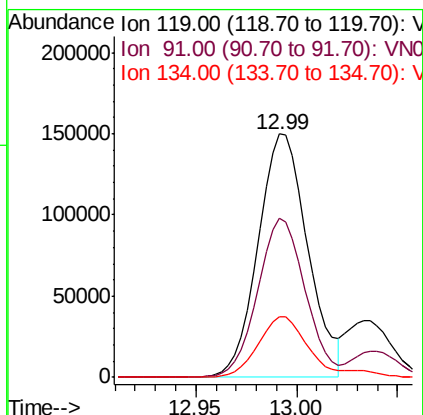
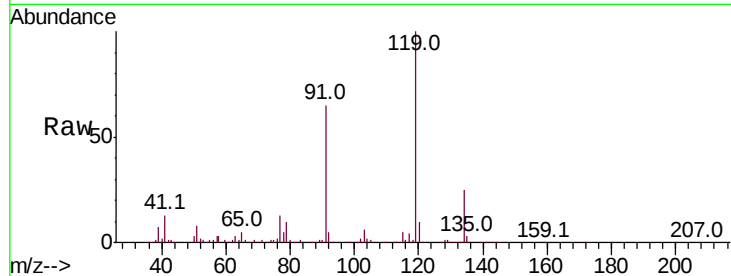
#83
tert-Butylbenzene
Concen: 22.241 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Instrument :
MSVOA_N
ClientSampleId :
VN0621MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	257262		
91	62.1		31.6	94.7
134	26.5		13.2	39.5

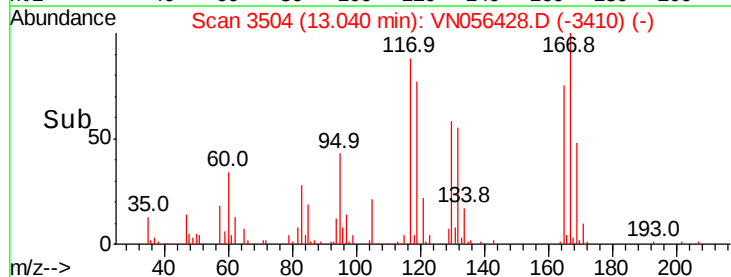
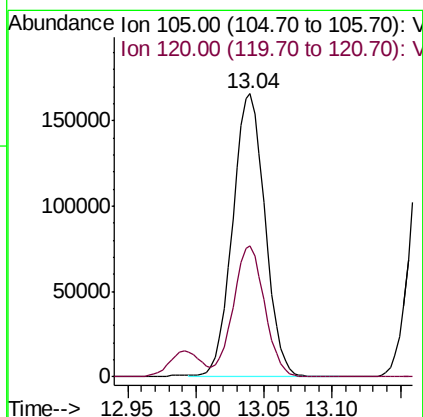
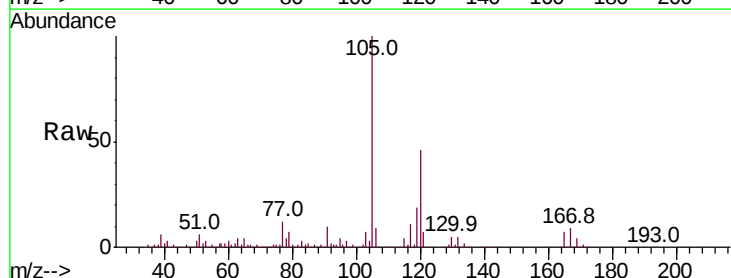
Manual Integrations
APPROVED

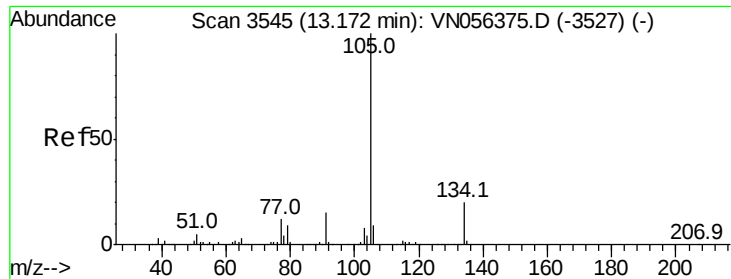
MMDadoda
6/24/2019 4:16:17 PM



#84
1,2,4-Trimethylbenzene
Concen: 20.496 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	272284		
120	45.2		22.9	68.8





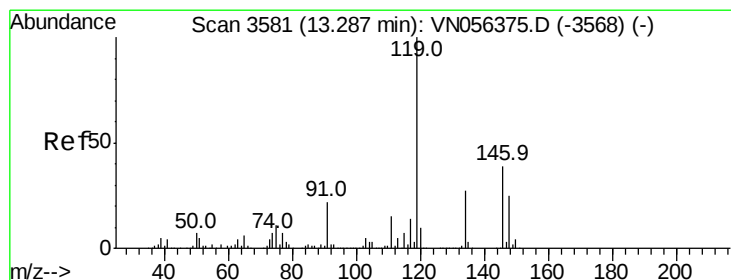
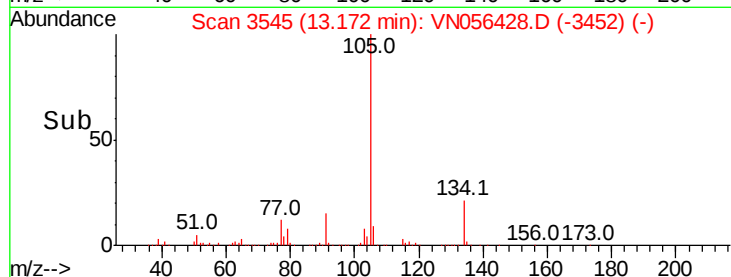
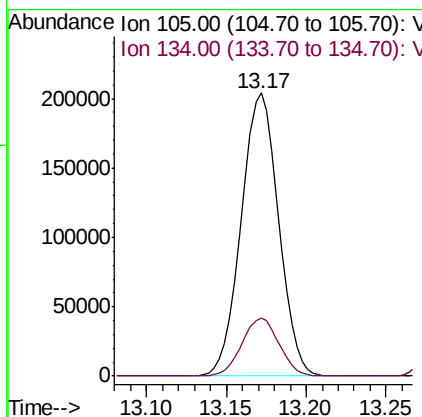
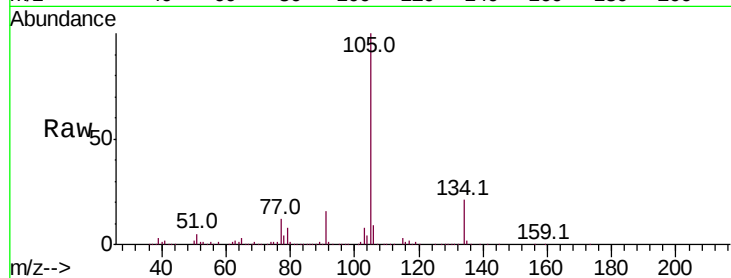
#85
 sec-Butylbenzene
 Concen: 20.328 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN056428.D
 Acq: 21 Jun 2019 16:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0621MBSD01

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.5	10.2	30.4

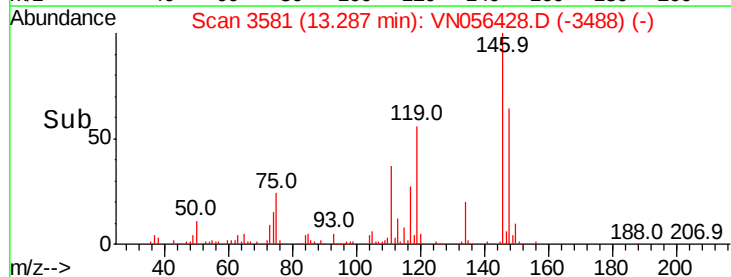
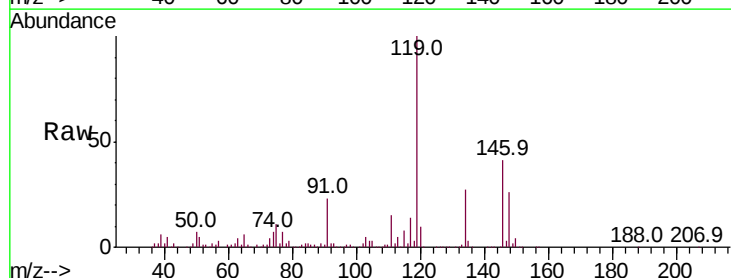
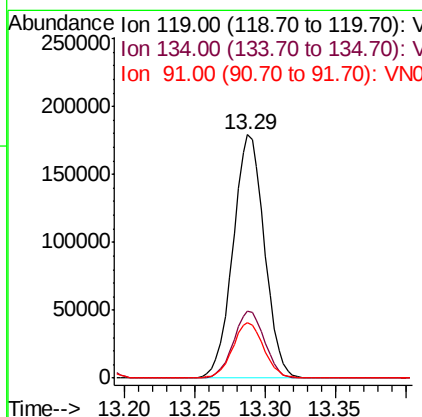
Manual Integrations
 APPROVED

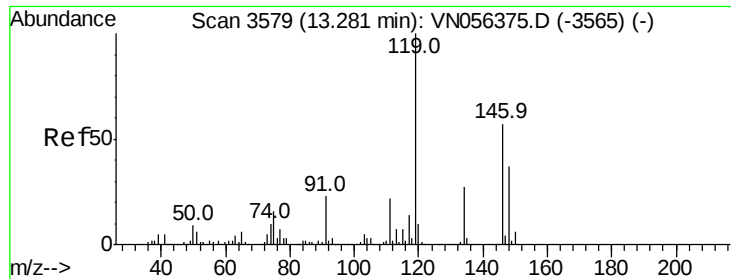
MMDadoda
 6/24/2019 4:16:17 PM



#86
 p-Isopropyltoluene
 Concen: 20.407 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN056428.D
 Acq: 21 Jun 2019 16:02

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.3	13.5	40.4
91	22.5	11.2	33.5





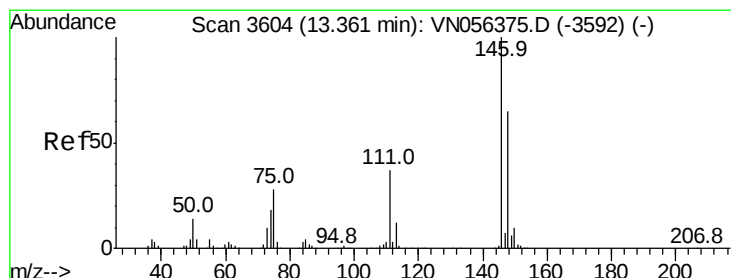
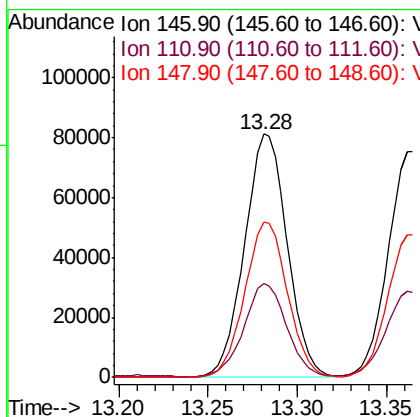
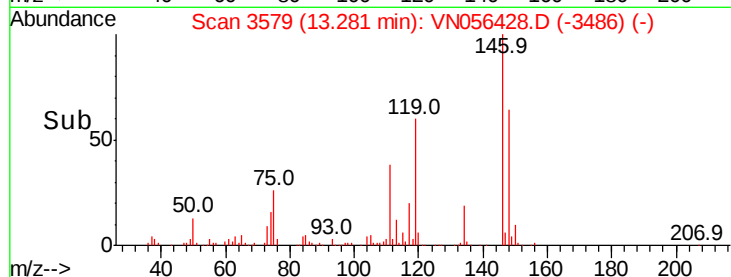
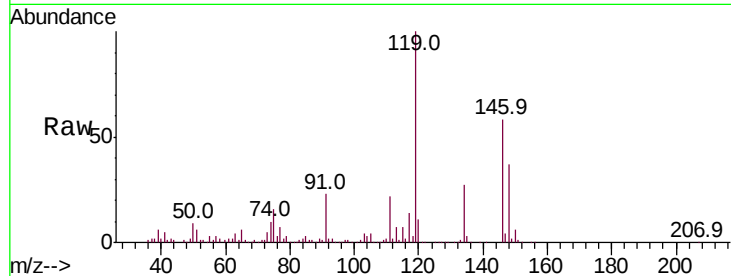
#87
 1,3-Dichlorobenzene
 Concen: 20.320 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN056428.D
 Acq: 21 Jun 2019 16:02

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0621MBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.7	18.9	56.9
148	63.9	32.1	96.5

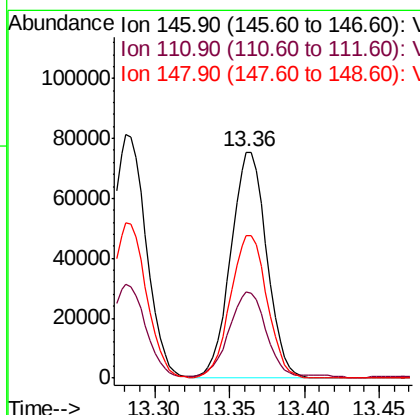
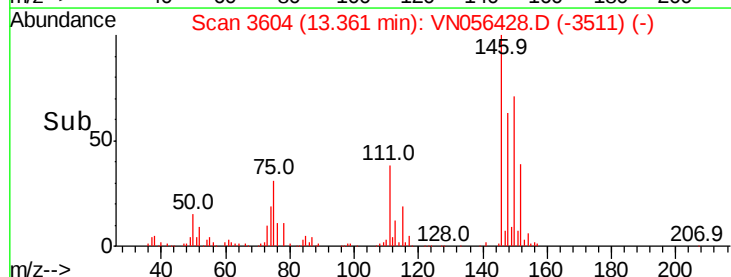
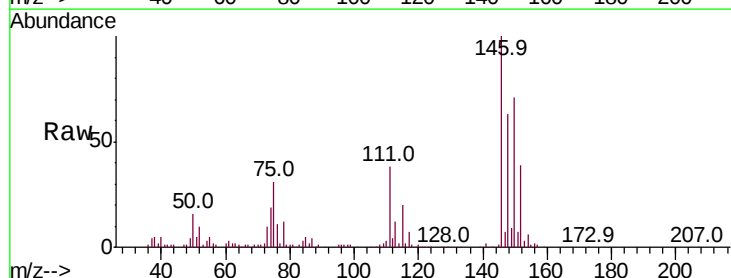
Manual Integrations
 APPROVED

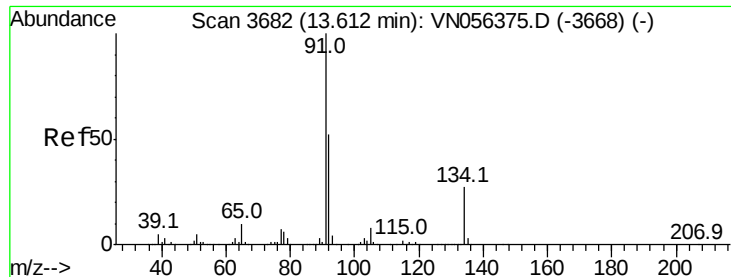
MMDadoda
 6/24/2019 4:16:17 PM



#88
 1,4-Dichlorobenzene
 Concen: 19.506 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN056428.D
 Acq: 21 Jun 2019 16:02

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.3	18.4	55.4
148	64.4	32.4	97.0





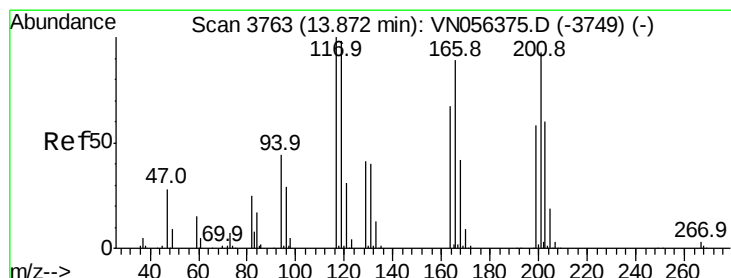
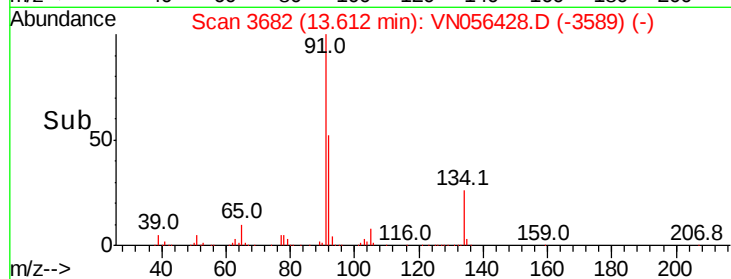
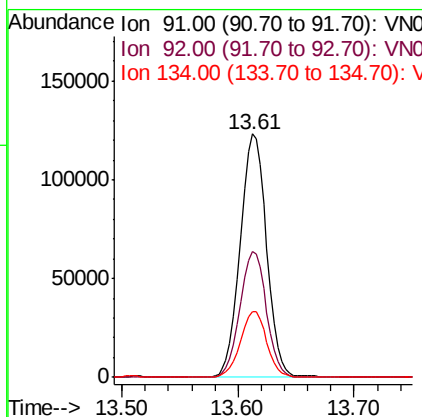
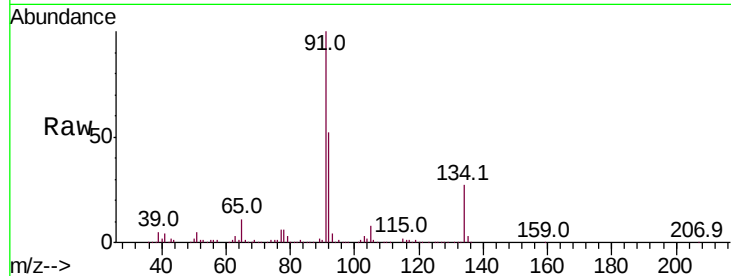
#89
n-Butylbenzene
Concen: 18.716 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Instrument :
MSVOA_N
ClientSampleId :
VN0621MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	193133		
92	52.1	26.2	78.5	
134	27.2	13.4	40.2	

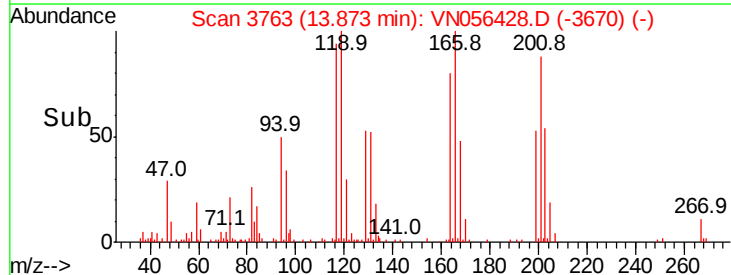
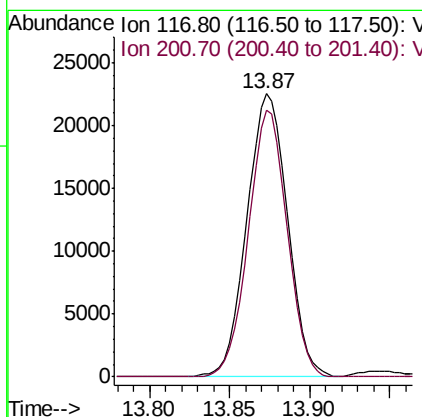
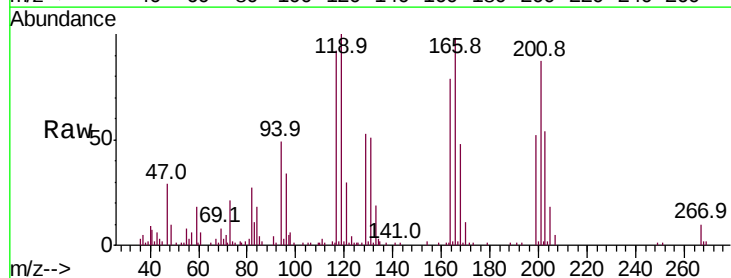
Manual Integrations
APPROVED

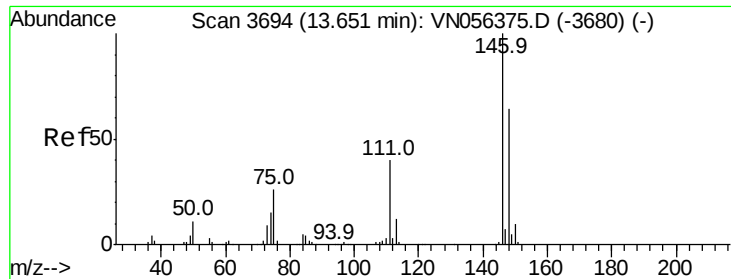
MMDadoda
6/24/2019 4:16:17 PM



#90
Hexachloroethane
Concen: 18.451 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	39212		
201	89.5	45.9	137.6	





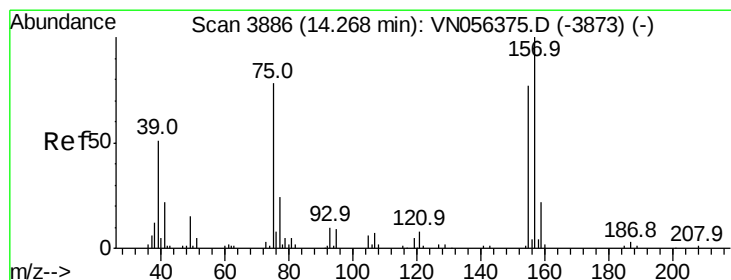
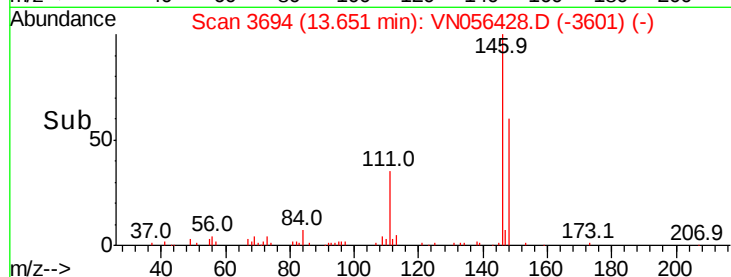
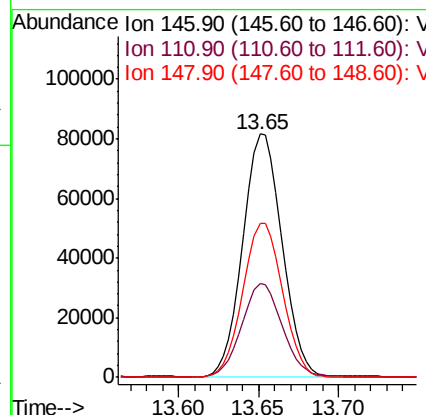
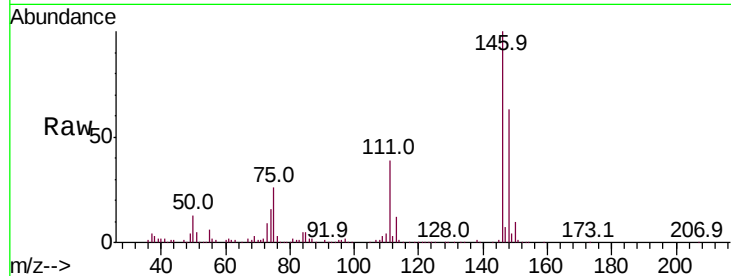
#91
 1,2-Dichlorobenzene
 Concen: 20.660 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN056428.D
 Acq: 21 Jun 2019 16:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0621MBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.0	19.3	57.9
148	64.0	32.0	96.0

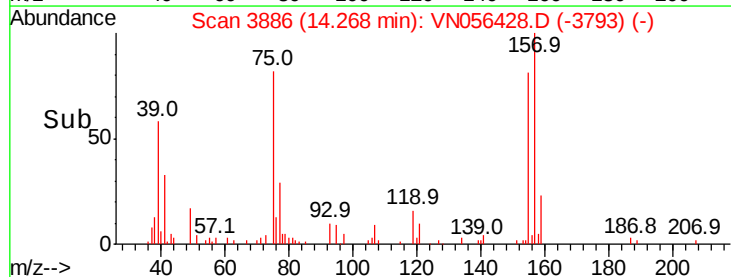
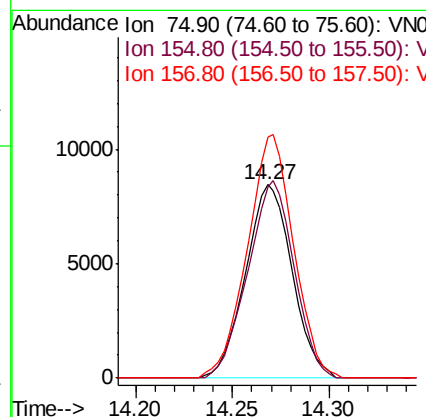
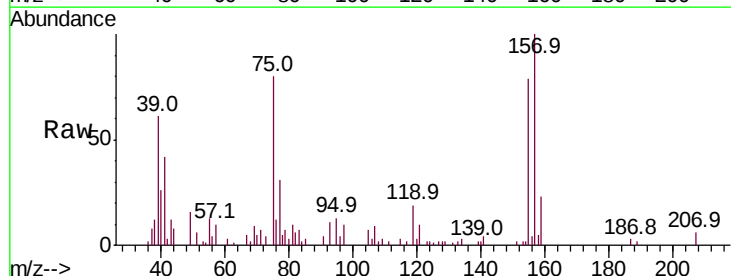
Manual Integrations
 APPROVED

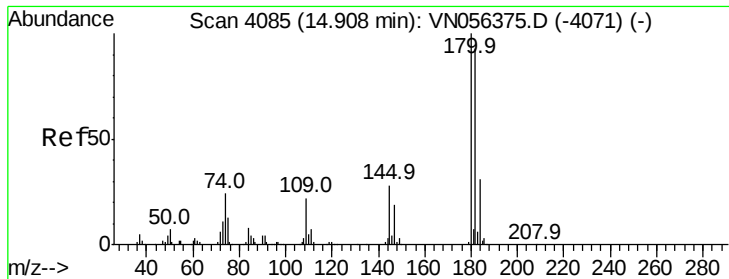
MMDadoda
 6/24/2019 4:16:17 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.439 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN056428.D
 Acq: 21 Jun 2019 16:02

Tgt Ion	Ratio	Lower	Upper
75	100		
155	101.0	48.9	146.8
157	124.6	62.9	188.8





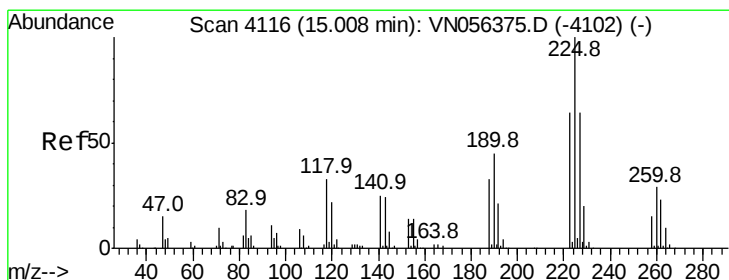
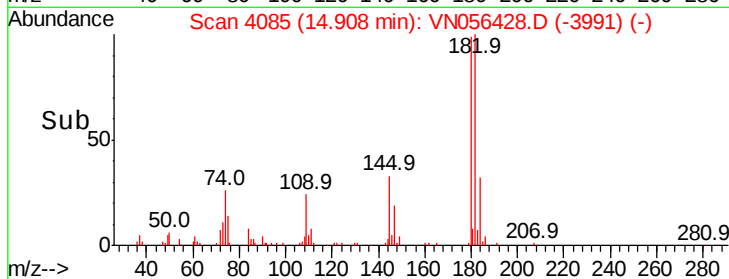
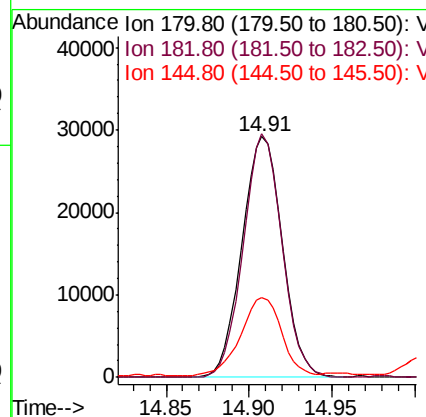
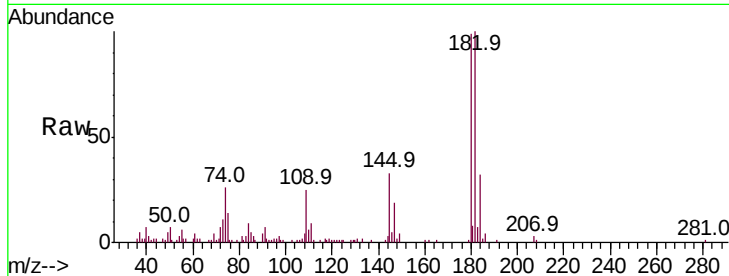
#93
 1,2,4-Trichlorobenzene
 Concen: 18.346 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN056428.D
 Acq: 21 Jun 2019 16:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0621MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	96.6	46.9	140.6	
145	32.9	14.4	43.0	

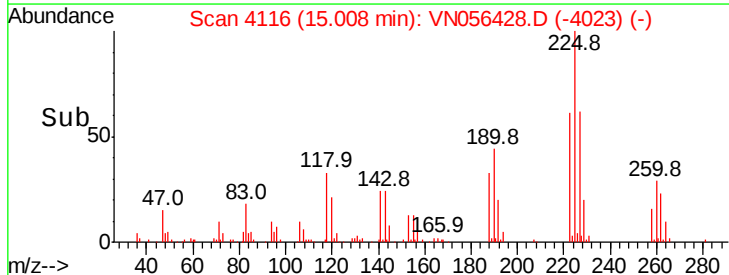
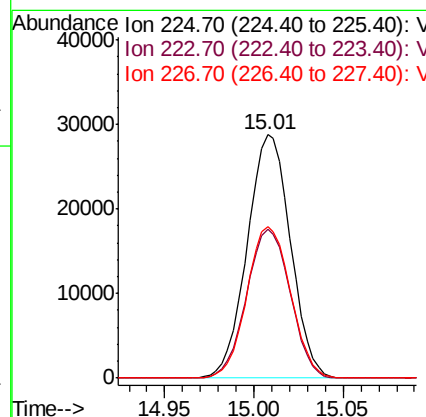
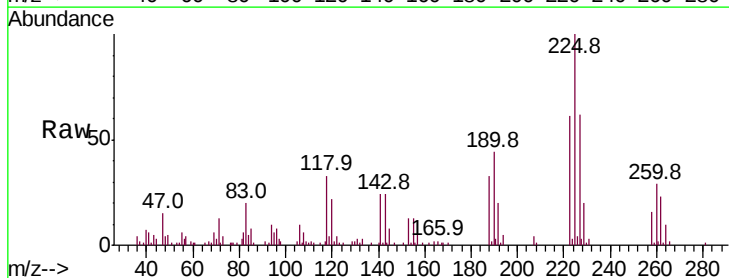
Manual Integrations
 APPROVED

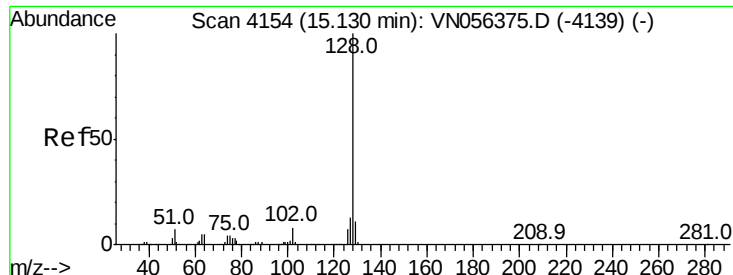
MMDadoda
 6/24/2019 4:16:17 PM



#94
 Hexachlorobutadiene
 Concen: 20.552 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN056428.D
 Acq: 21 Jun 2019 16:02

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	61.8	31.4	94.3	
227	62.8	32.1	96.3	





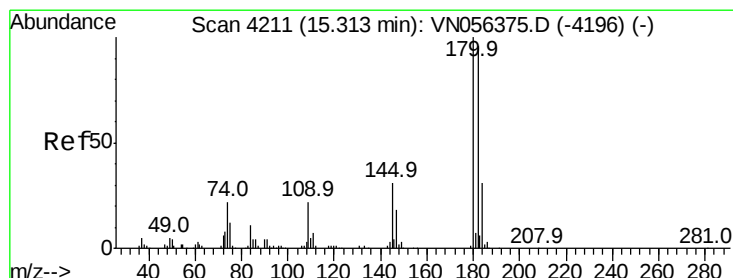
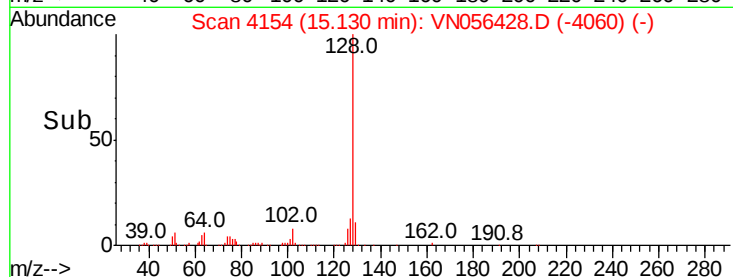
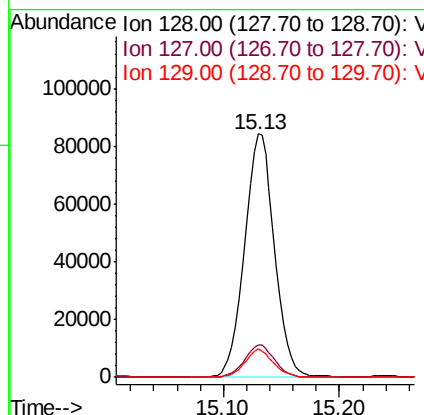
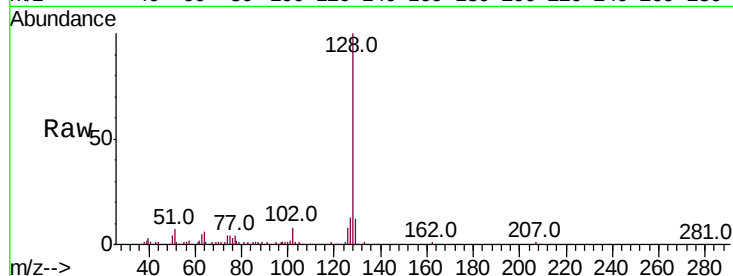
#95
Naphthalene
Concen: 20.199 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Instrument :
MSVOA_N
ClientSampleId :
VN0621MBSD01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.2	15.2
129	11.0	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
6/24/2019 4:16:17 PM



#96
1,2,3-Trichlorobenzene
Concen: 19.792 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN056428.D
Acq: 21 Jun 2019 16:02

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.7	48.3	144.8
145	37.3	15.4	46.1

