

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050819\
 Data File : VN055478.D
 Acq On : 8 May 2019 16:34
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 5/9/2019 6:32:41 PM

Quant Time: May 09 03:55:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N050819W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 03:36:06 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	714779	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1237841	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1040536	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	353774	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	52398	5.43	ug/l	0.00
Spiked Amount			Recovery	=	10.86%	
35) Dibromofluoromethane	7.59	113	37582	4.61	ug/l	0.00
Spiked Amount			Recovery	=	9.22%	
50) Toluene-d8	10.09	98	141779	4.74	ug/l	0.00
Spiked Amount			Recovery	=	9.48%	
62) 4-Bromofluorobenzene	12.40	95	47068	4.99	ug/l	0.00
Spiked Amount			Recovery	=	9.98%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	38269	4.567	ug/l	97
3) Chloromethane	2.06	50	61138	5.597	ug/l	100
4) Vinyl Chloride	2.19	62	57014	6.264	ug/l	99
5) Bromomethane	2.54	94	31771	6.516	ug/l	96
6) Chloroethane	2.69	64	32657	6.531	ug/l	99
7) Trichlorofluoromethane	3.01	101	61538	4.955	ug/l	98
8) Diethyl Ether	3.41	74	28351	6.277	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.74	101	40160	5.393	ug/l	98
10) Methyl Iodide	3.94	142	47447	4.540	ug/l #	94
11) Tert butyl alcohol	4.82	59	36323	48.320	ug/l #	94
12) 1,1-Dichloroethene	3.73	96	39357	5.479	ug/l	96
13) Acrolein	3.61	56	29623	54.942	ug/l	99
14) Allyl chloride	4.32	41	76187	5.122	ug/l	97
15) Acrylonitrile	5.00	53	118075	35.428	ug/l	98
16) Acetone	3.83	43	123400	37.865	ug/l	100
17) Carbon Disulfide	4.04	76	102421	5.439	ug/l	99
18) Methyl Acetate	4.33	43	58367	6.479	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	128298	6.170	ug/l	100
20) Methylene Chloride	4.55	84	52849	5.810	ug/l	96
21) trans-1,2-Dichloroethene	5.04	96	42122	5.520	ug/l	94
22) Diisopropyl ether	5.96	45	160111	5.388	ug/l	97
23) Vinyl Acetate	5.90	43	583900	29.046	ug/l	97
24) 1,1-Dichloroethane	5.85	63	86433	5.459	ug/l	97
25) 2-Butanone	6.84	43	163953	38.296	ug/l	99
26) 2,2-Dichloropropane	6.82	77	52602	4.880	ug/l	100
27) cis-1,2-Dichloroethene	6.82	96	46851	5.370	ug/l	97
28) Bromochloromethane	7.19	49	42748	5.295	ug/l	98
29) Tetrahydrofuran	7.22	42	111149	40.524	ug/l	98
30) Chloroform	7.37	83	80709	5.397	ug/l	99
31) Cyclohexane	7.65	56	96237	6.338	ug/l #	89
32) 1,1,1-Trichloroethane	7.57	97	59517	4.947	ug/l	97
36) 1,1-Dichloropropene	7.79	75	59674	4.955	ug/l	96
37) Ethyl Acetate	6.94	43	64358	6.483	ug/l	96
38) Carbon Tetrachloride	7.77	117	49595	4.391	ug/l	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050819\
 Data File : VN055478.D
 Acq On : 8 May 2019 16:34
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 5/9/2019 6:32:41 PM

Quant Time: May 09 03:55:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N050819W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 03:36:06 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	73657	5.677	ug/l	98
40) Benzene	8.04	78	183995	5.170	ug/l	99
41) Methacrylonitrile	7.17	41	24635	4.803	ug/l #	85
42) 1,2-Dichloroethane	8.13	62	65850	5.247	ug/l	99
43) Isopropyl Acetate	8.17	43	93526	5.961	ug/l	99
44) Trichloroethene	8.83	130	44472	4.962	ug/l	97
45) 1,2-Dichloropropane	9.12	63	53575	5.239	ug/l	98
46) Dibromomethane	9.21	93	30829	5.450	ug/l	99
47) Bromodichloromethane	9.40	83	56198	4.722	ug/l	98
48) Methyl methacrylate	9.20	41	44347	5.783	ug/l	95
49) 1,4-Dioxane	9.20	88	18506	194.287	ug/l	97
51) 4-Methyl-2-Pentanone	9.99	43	312688	34.151	ug/l	100
52) Toluene	10.16	92	105671	5.170	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	49862	4.746	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	62946	4.840	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	43388	5.647	ug/l	98
56) Ethyl methacrylate	10.43	69	60424	6.147	ug/l	98
57) 1,3-Dichloropropane	10.71	76	74366	5.496	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.70	63	81106	30.408	ug/l	99
59) 2-Hexanone	10.75	43	222536	37.703	ug/l	98
60) Dibromochloromethane	10.90	129	35698	4.647	ug/l	99
61) 1,2-Dibromoethane	11.01	107	39672	5.533	ug/l	98
64) Tetrachloroethene	10.63	164	42591	4.976	ug/l	97
65) Chlorobenzene	11.43	112	103468	5.021	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.51	131	35729	4.511	ug/l	98
67) Ethyl Benzene	11.51	91	199130	5.327	ug/l	99
68) m/p-Xylenes	11.62	106	141496	10.579	ug/l	98
69) o-Xylene	11.95	106	69353	5.230	ug/l	99
70) Styrene	11.96	104	104255	5.094	ug/l	97
71) Bromoform	12.13	173	20978	4.639	ug/l #	95
73) Isopropylbenzene	12.25	105	179905	5.065	ug/l	100
74) N-amyl acetate	12.07	43	64798	6.610	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.50	83	61118	6.501	ug/l	97
76) 1,2,3-Trichloropropane	12.55	75	54368m	6.435	ug/l	
77) Bromobenzene	12.53	156	39292	4.891	ug/l	95
78) n-propylbenzene	12.59	91	194101	5.279	ug/l	99
79) 2-Chlorotoluene	12.67	91	124763	5.305	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	150019	5.337	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	13128	6.482	ug/l	86
82) 4-Chlorotoluene	12.77	91	115359	5.376	ug/l	100
83) tert-Butylbenzene	12.99	119	131453	5.234	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	128755	5.123	ug/l	100
85) sec-Butylbenzene	13.17	105	167649	5.469	ug/l	99
86) p-Isopropyltoluene	13.29	119	133882	5.321	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	57789	4.829	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	57382	5.089	ug/l	93
89) n-Butylbenzene	13.61	91	94513	5.210	ug/l	98
90) Hexachloroethane	13.87	117	21819	4.664	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	58299	4.910	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	7337	7.064	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050819\
Data File : VN055478.D
Acq On : 8 May 2019 16:34
Operator : JC/SP
Sample : VSTDICC005
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

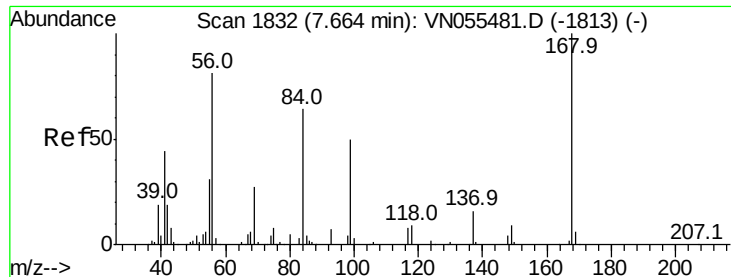
Manual Integrations
APPROVED

MMDadoda
5/9/2019 6:32:41 PM

Quant Time: May 09 03:55:32 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N050819W.M
Quant Title : SW846 8260
QLast Update : Thu May 09 03:36:06 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	16733	4.417	ug/l	96
94) Hexachlorobutadiene	15.01	225	22204	5.098	ug/l	99
95) Naphthalene	15.13	128	47464	5.397	ug/l	98
96) 1,2,3-Trichlorobenzene	15.31	180	18239	4.593	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 714779

Ion Ratio Lower Upper

168 100

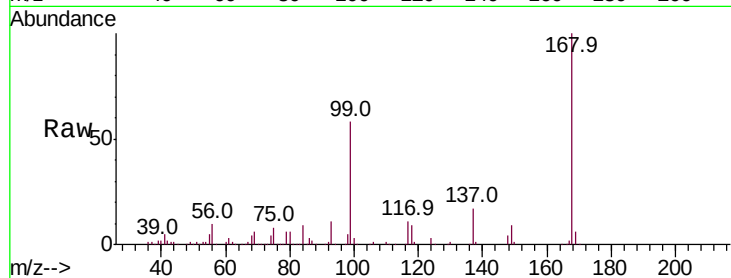
99 57.9 47.0 70.4

Manual Integrations

APPROVED

MMDadoda

5/9/2019 6:32:41 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

300000

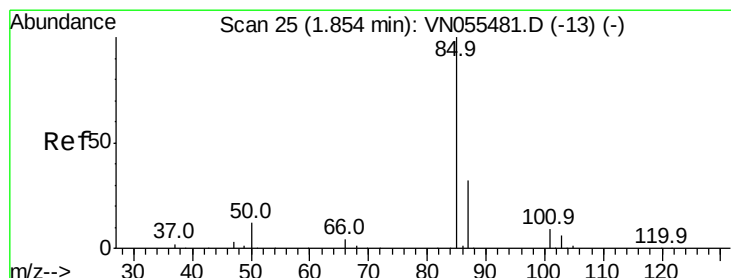
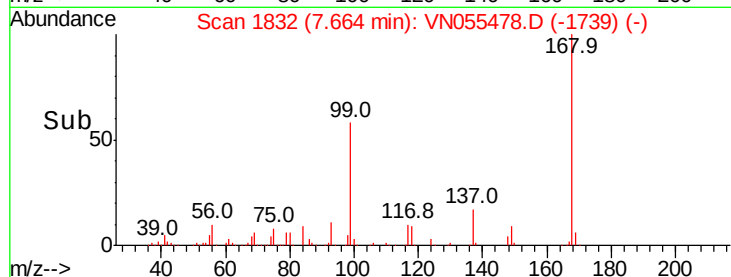
200000

100000

0

7.60 7.65 7.70 7.75

Time-->



#2

Dichlorodifluoromethane

Concen: 4.567 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN055478.D

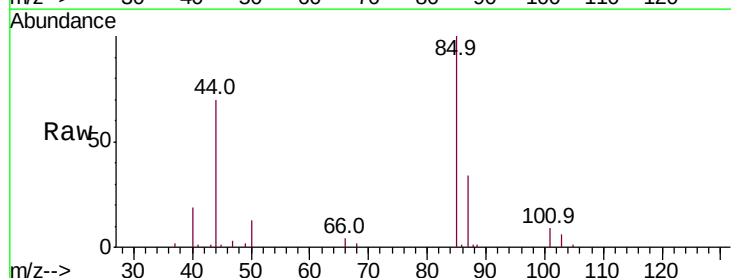
Acq: 8 May 2019 16:34

Tgt Ion: 85 Resp: 38269

Ion Ratio Lower Upper

85 100

87 33.7 16.0 48.0



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

30000

25000

20000

15000

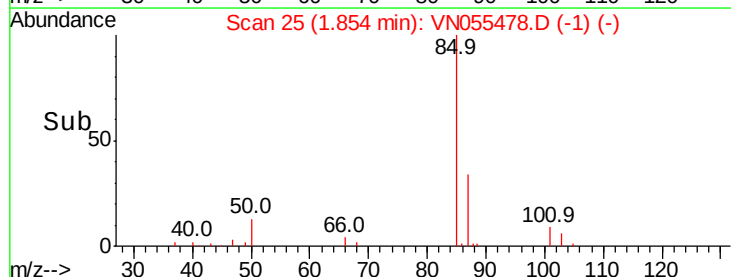
10000

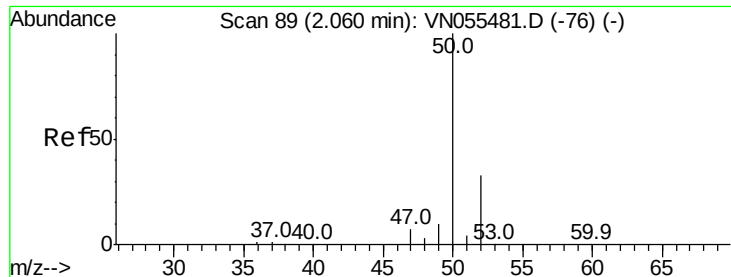
5000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 5.597 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 61138

Ion Ratio Lower Upper

50 100

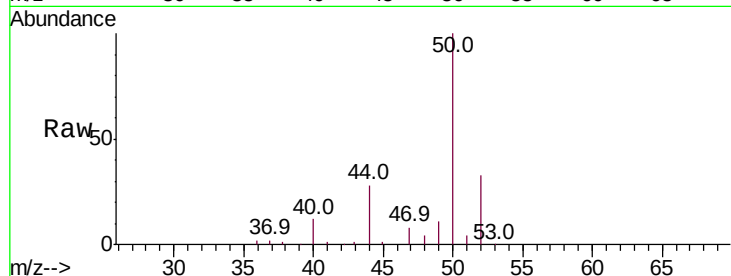
52 33.0 26.6 39.8

Manual Integrations

APPROVED

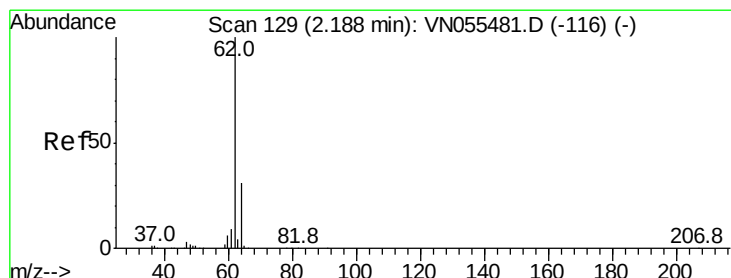
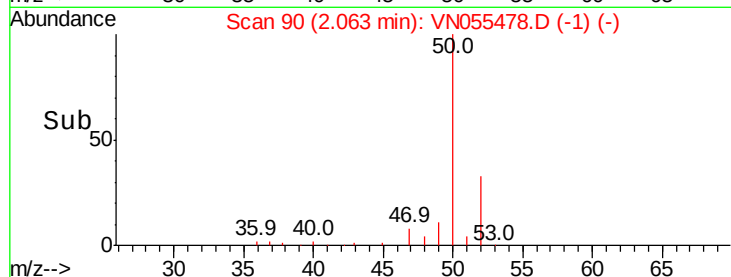
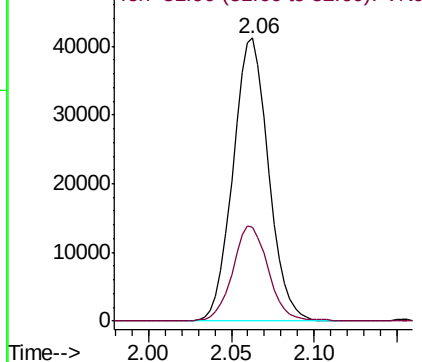
MMDadoda

5/9/2019 6:32:41 PM



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 6.264 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN055478.D

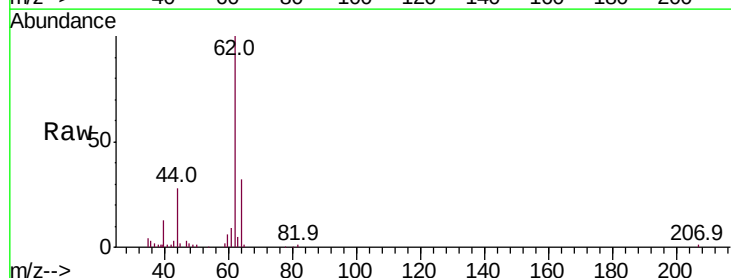
Acq: 8 May 2019 16:34

Tgt Ion: 62 Resp: 57014

Ion Ratio Lower Upper

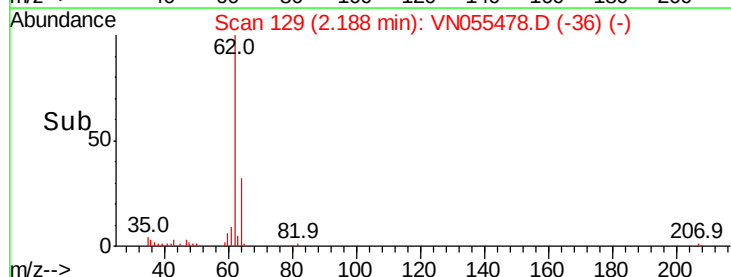
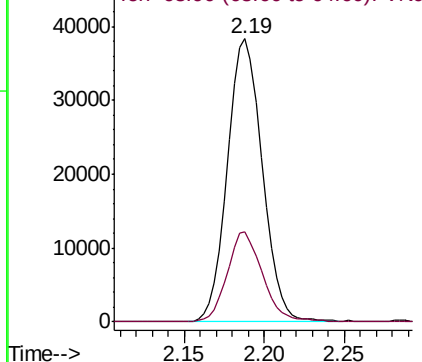
62 100

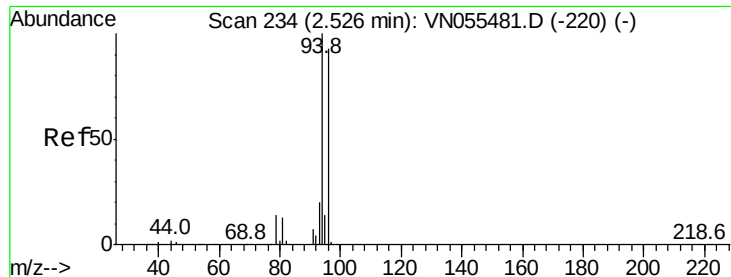
64 31.8 25.0 37.6



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 6.516 ug/l

RT: 2.54 min Scan# 237

Delta R.T. 0.01 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 31771

Ion Ratio Lower Upper

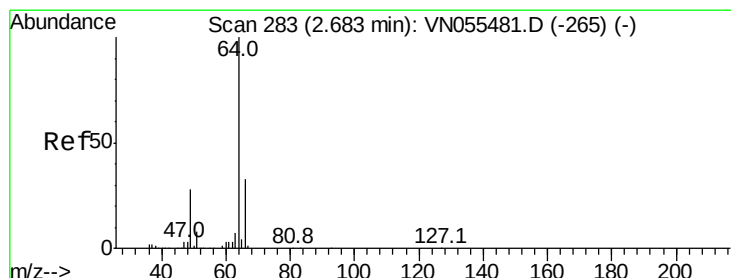
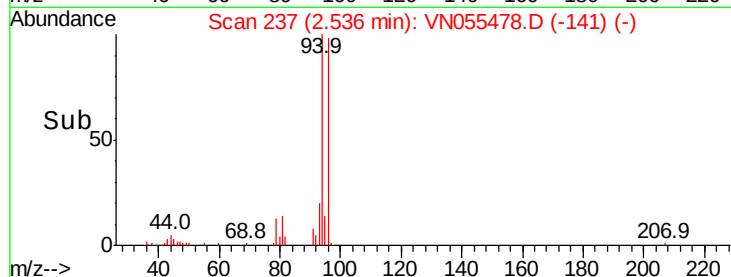
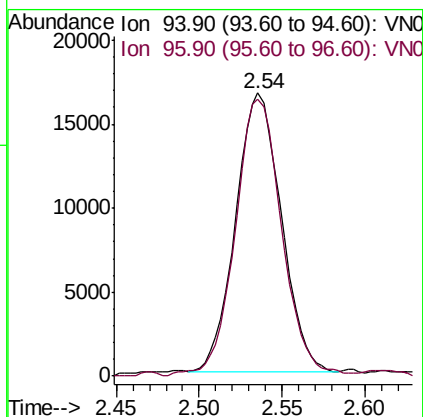
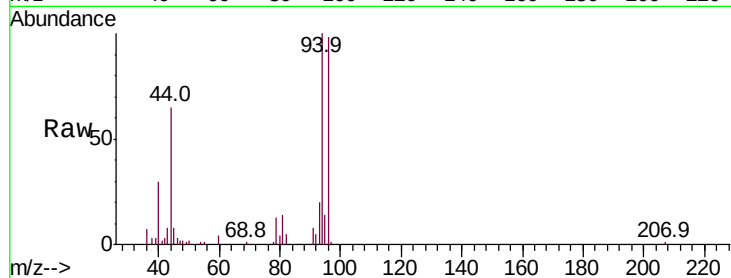
94 100

96 97.8 74.8 112.2

Manual Integrations
APPROVED

MMDadoda

5/9/2019 6:32:41 PM



#6

Chloroethane

Concen: 6.531 ug/l

RT: 2.69 min Scan# 284

Delta R.T. 0.00 min

Lab File: VN055478.D

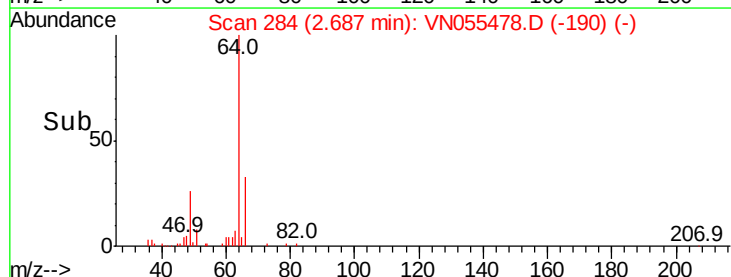
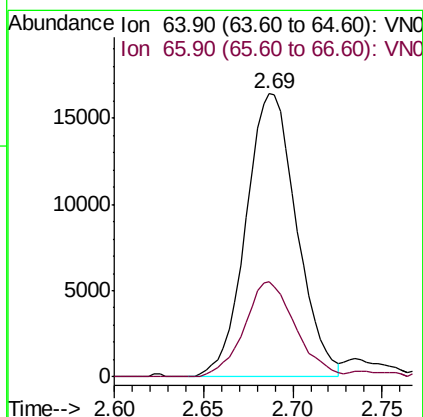
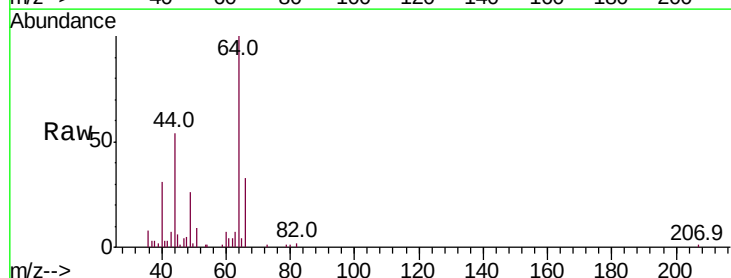
Acq: 8 May 2019 16:34

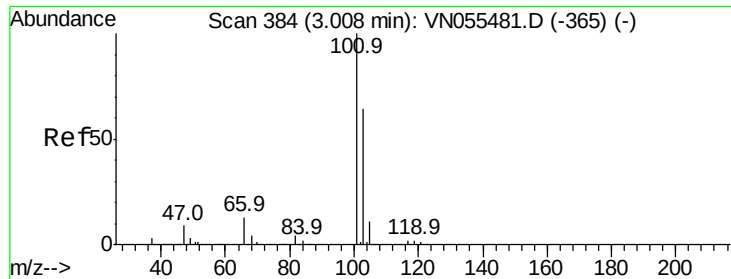
Tgt Ion: 64 Resp: 32657

Ion Ratio Lower Upper

64 100

66 33.4 26.2 39.2





#7

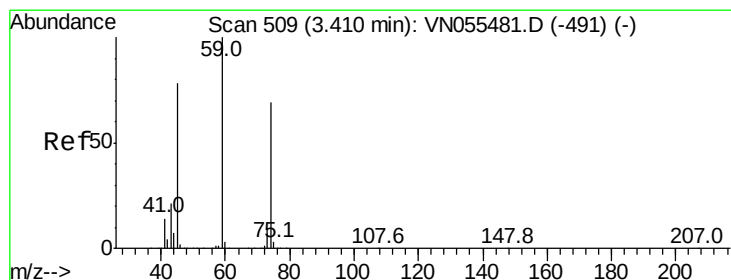
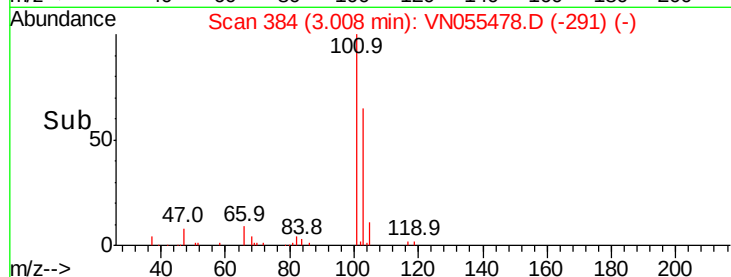
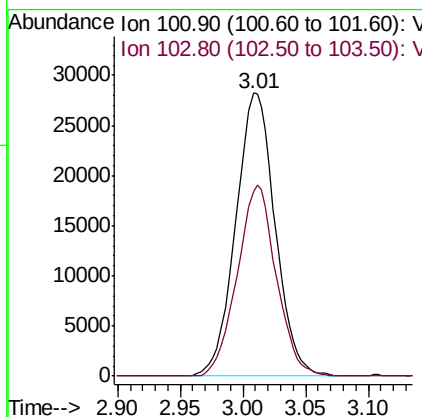
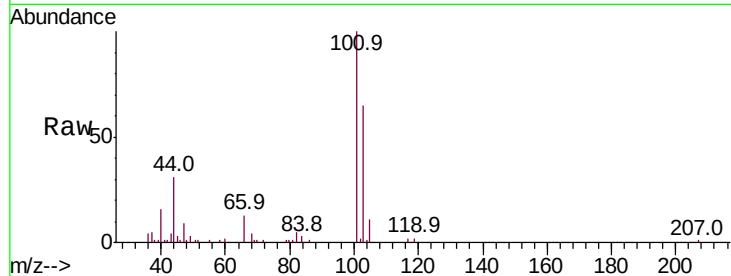
Trichlorofluoromethane
 Concen: 4.955 ug/l
 RT: 3.01 min Scan# 384
 Delta R.T. 0.00 min
 Lab File: VN055478.D
 Acq: 8 May 2019 16:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.3	51.2	76.8

Manual Integrations
 APPROVED

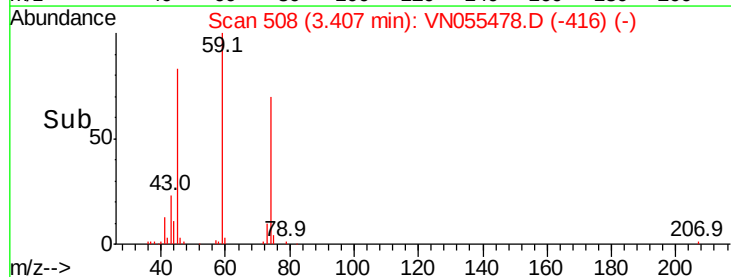
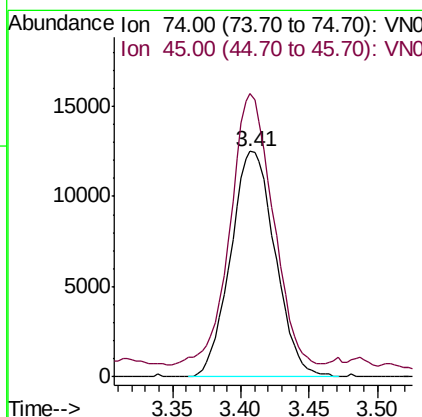
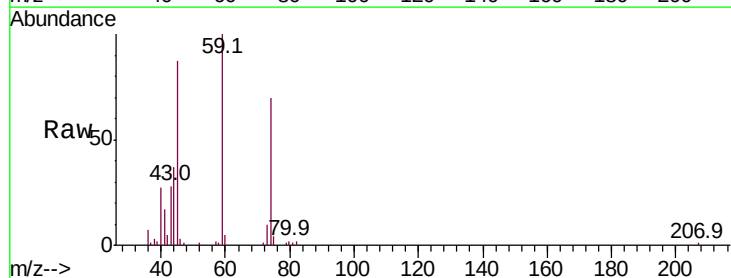
MMDadoda
 5/9/2019 6:32:41 PM

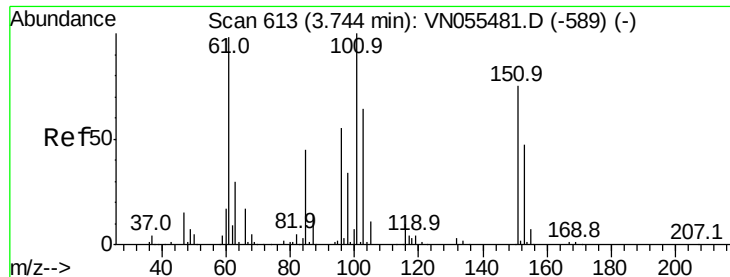


#8

Diethyl Ether
 Concen: 6.277 ug/l
 RT: 3.41 min Scan# 508
 Delta R.T. -0.00 min
 Lab File: VN055478.D
 Acq: 8 May 2019 16:34

Tgt Ion	Ratio	Lower	Upper
74	100		
45	114.9	58.1	174.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.393 ug/l

RT: 3.74 min Scan# 613

Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

Instrument :

MSVOA_N

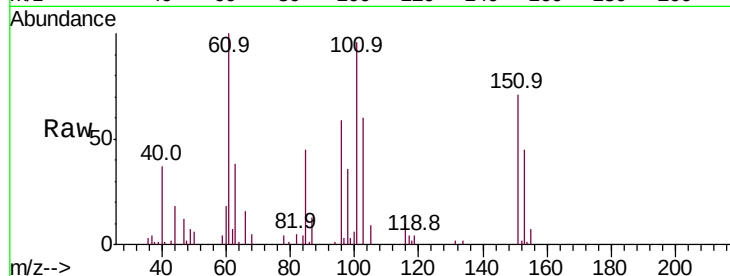
ClientSampleId :

VSTDIC005

Tot Ion:	101	Resp:	40160
Ion Ratio	Lower	Upper	
101	100		
85	45.8	35.5	53.3
151	75.9	59.2	88.8

Manual Integrations
APPROVED

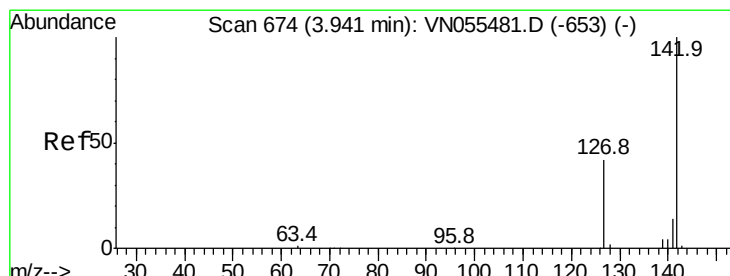
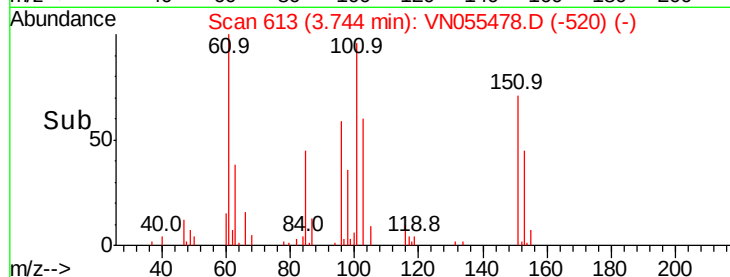
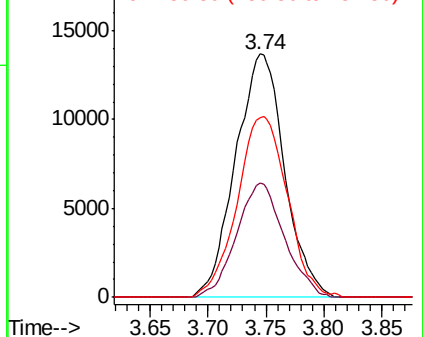
MMDadoda
5/9/2019 6:32:41 PM



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VNO

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 4.540 ug/l

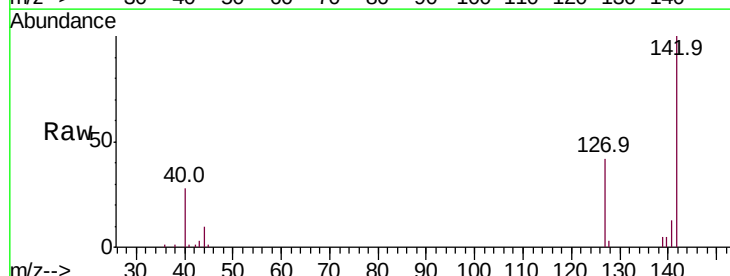
RT: 3.94 min Scan# 674

Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

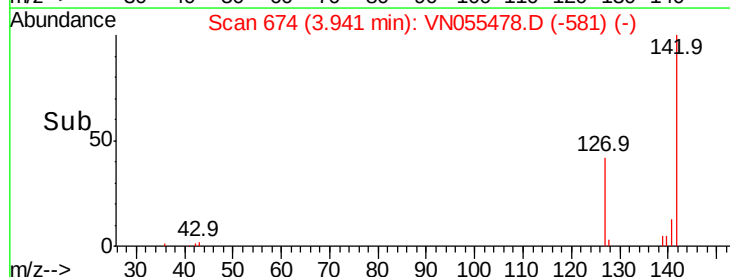
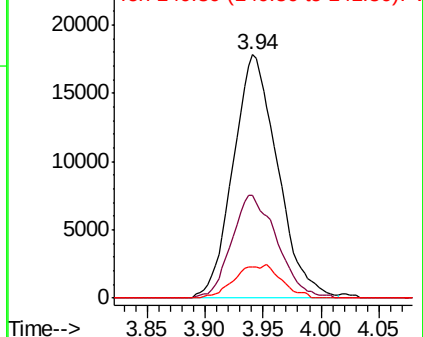
Tgt Ion:	142	Resp:	47447
Ion Ratio	Lower	Upper	
142	100		
127	43.2	33.0	49.4
141	8.1	11.4	17.0#

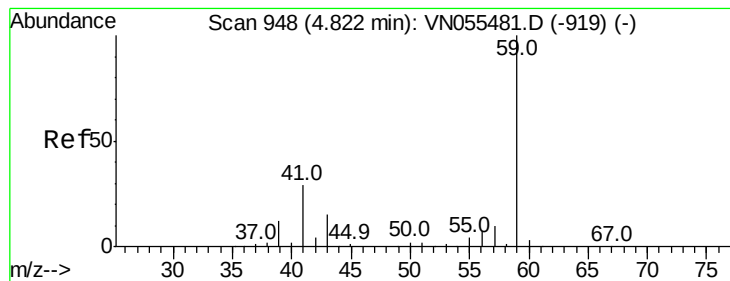


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

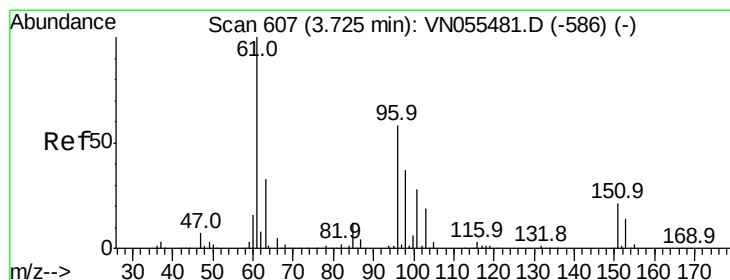
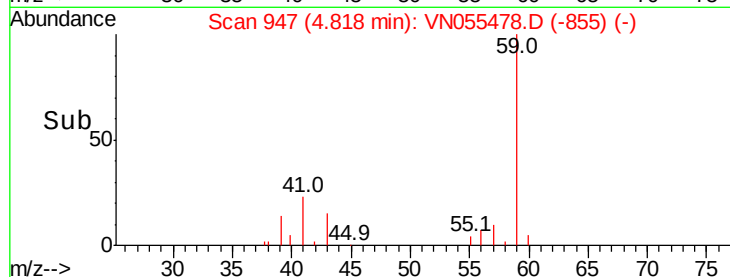
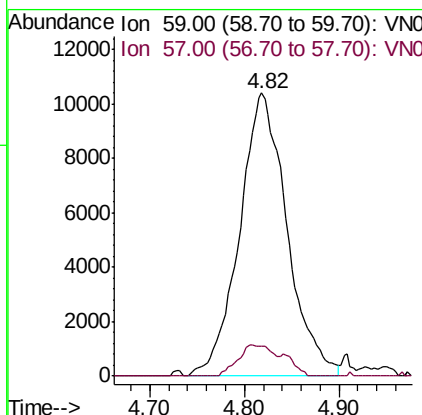
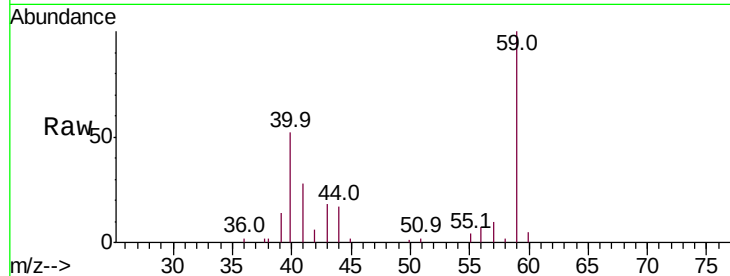
Tert butyl alcohol
 Concen: 48.320 ug/l
 RT: 4.82 min Scan# 947
 Delta R.T. -0.00 min
 Lab File: VN055478.D
 Acq: 8 May 2019 16:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion: 59 Resp: 36323
 Ion Ratio Lower Upper
 59 100
 57 7.9 8.0 12.0#

Manual Integrations
 APPROVED

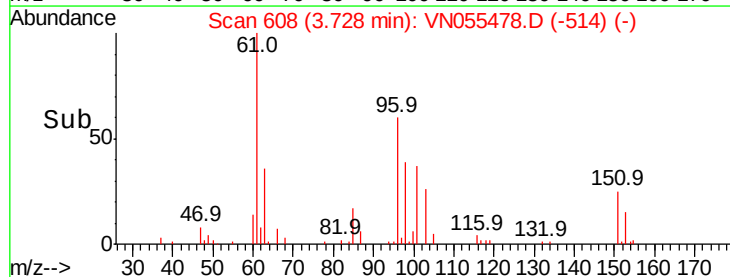
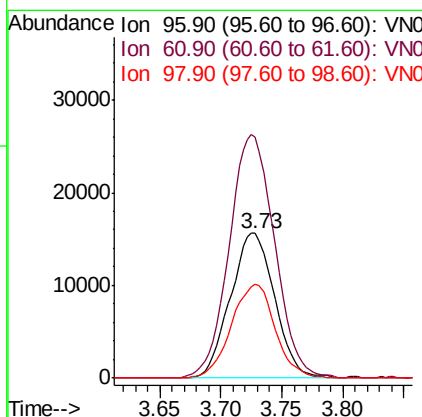
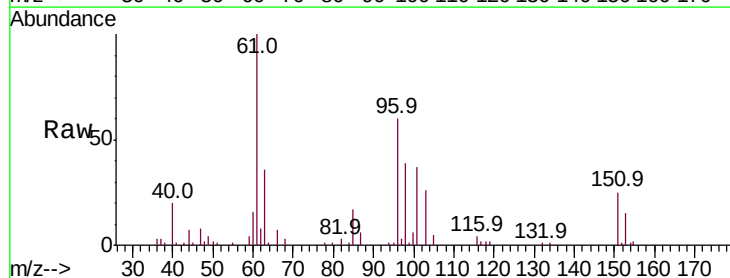
MMDadoda
 5/9/2019 6:32:41 PM

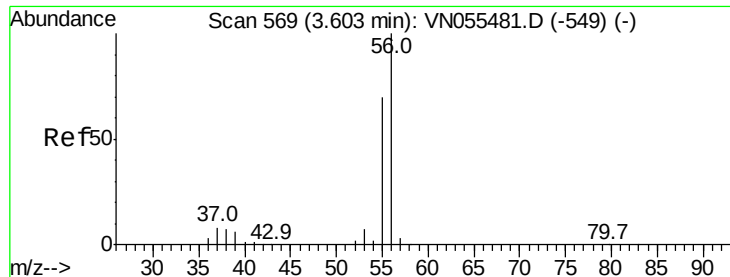


#12

1,1-Dichloroethene
 Concen: 5.479 ug/l
 RT: 3.73 min Scan# 608
 Delta R.T. 0.00 min
 Lab File: VN055478.D
 Acq: 8 May 2019 16:34

Tgt Ion: 96 Resp: 39357
 Ion Ratio Lower Upper
 96 100
 61 166.3 138.7 208.1
 98 65.0 50.6 76.0





#13

Acrolein

Concen: 54.942 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 29623

Ion Ratio Lower Upper

56 100

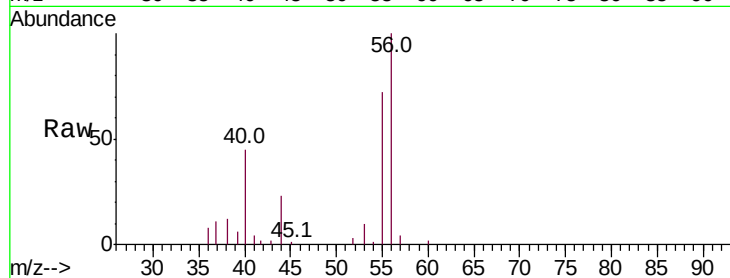
55 71.6 57.7 86.5

Manual Integrations

APPROVED

MMDadoda

5/9/2019 6:32:41 PM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

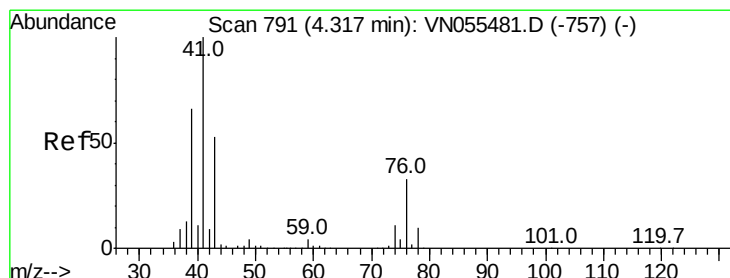
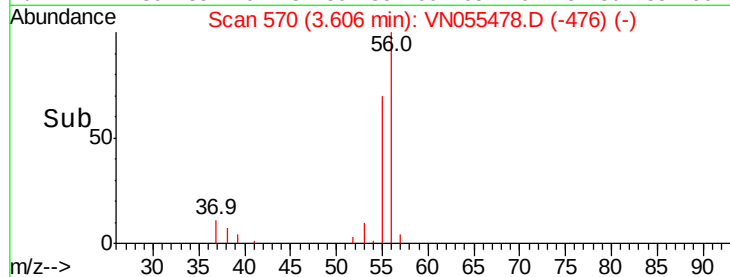
3.61

10000

5000

0

Time-->



#14

Allyl chloride

Concen: 5.122 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

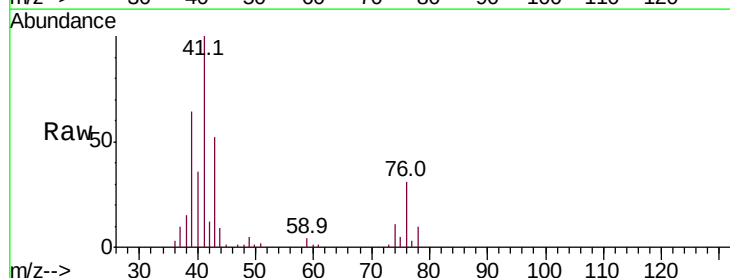
Tgt Ion: 41 Resp: 76187

Ion Ratio Lower Upper

41 100

39 65.7 49.8 74.8

76 29.6 23.5 35.3



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0

4.32

30000

25000

20000

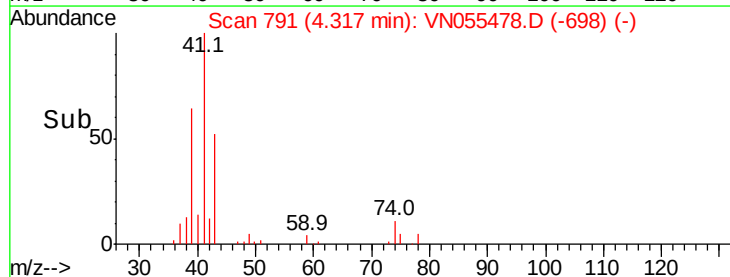
15000

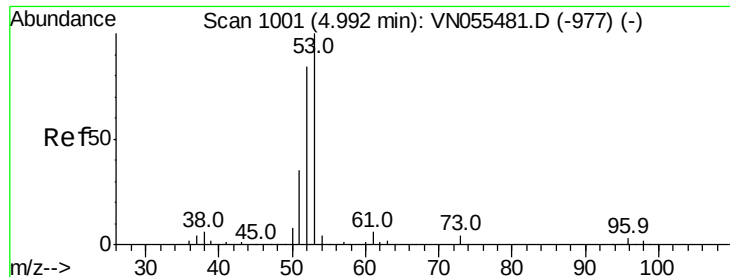
10000

5000

0

Time-->





#15

Acrylonitrile

Concen: 35.428 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

Instrument :

MSVOA_N

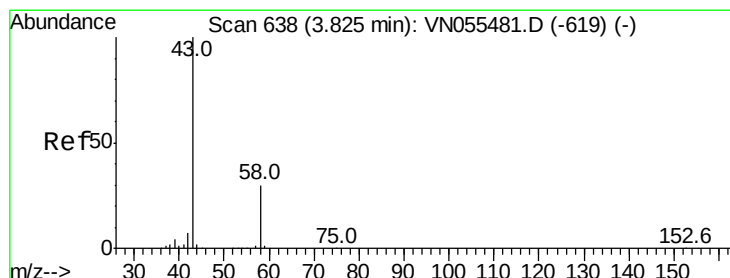
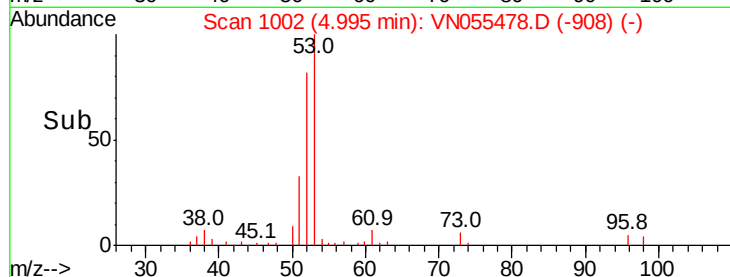
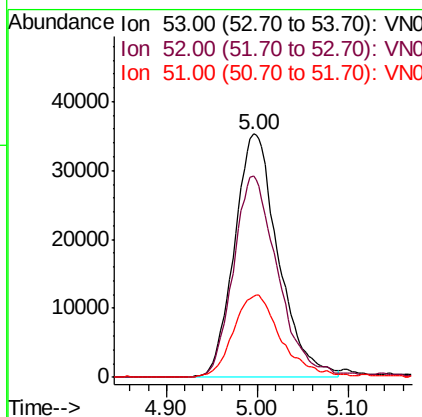
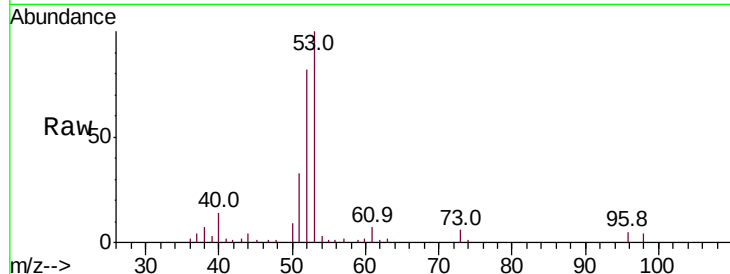
ClientSampleId :

VSTDIC005

Tot Ion:	53	Resp:	118075
Ion	Ratio	Lower	Upper
53	100		
52	84.5	66.1	99.1
51	36.6	28.3	42.5

Manual Integrations
APPROVED

MMDadoda
5/9/2019 6:32:41 PM



#16

Acetone

Concen: 37.865 ug/l

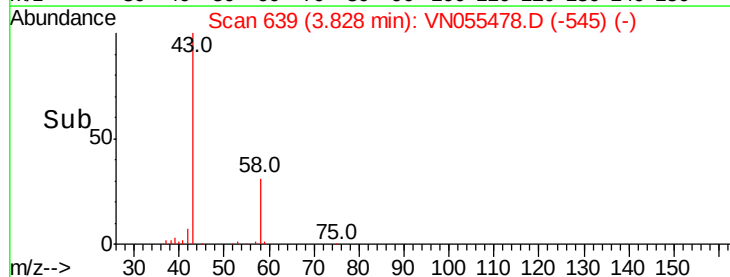
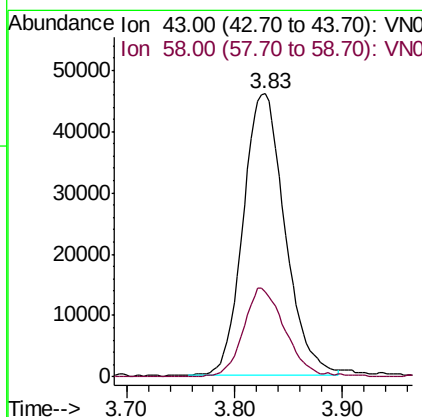
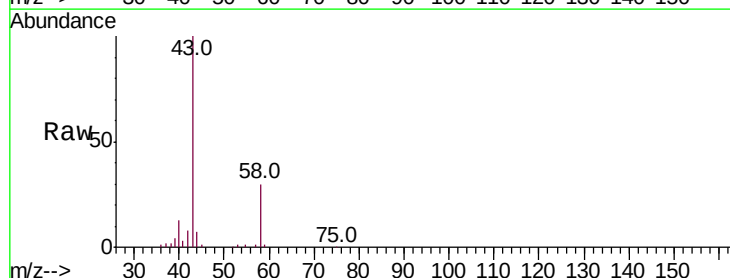
RT: 3.83 min Scan# 639

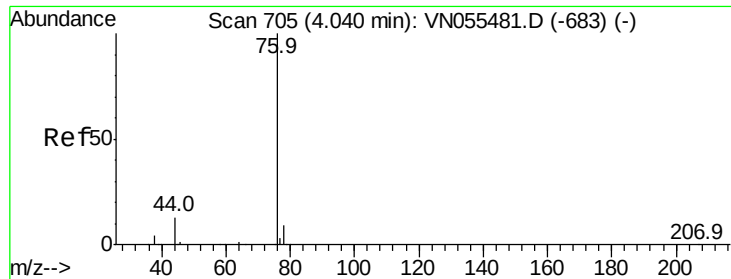
Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

Tgt Ion:	43	Resp:	123400
Ion	Ratio	Lower	Upper
43	100		
58	30.4	24.2	36.2





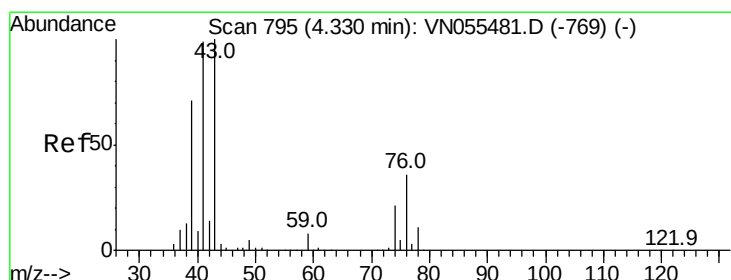
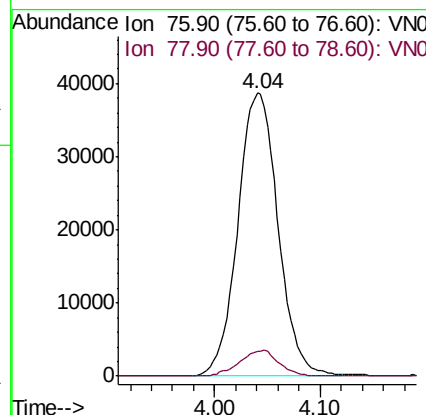
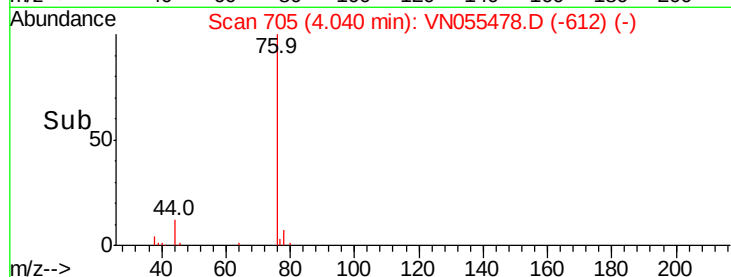
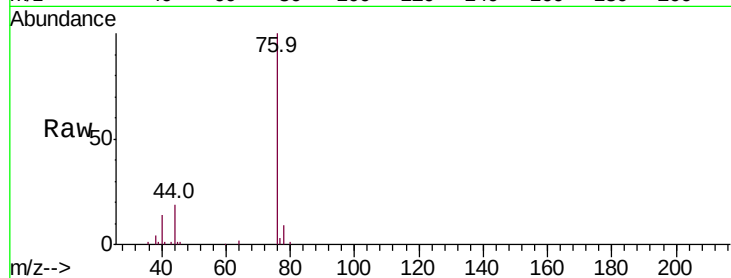
#17
Carbon Disulfide
Concen: 5.439 ug/l
RT: 4.04 min Scan# 705
Delta R.T. 0.00 min
Lab File: VN055478.D
Acq: 8 May 2019 16:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.4	11.0

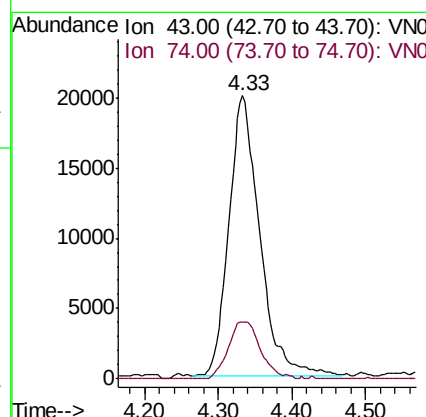
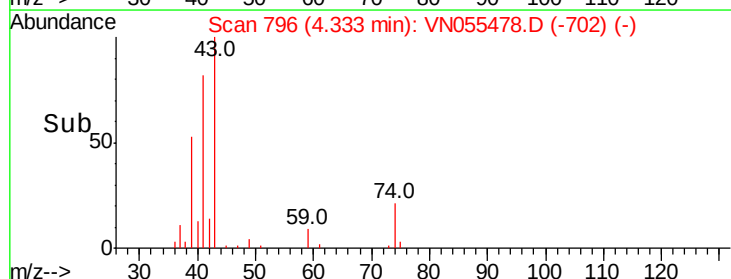
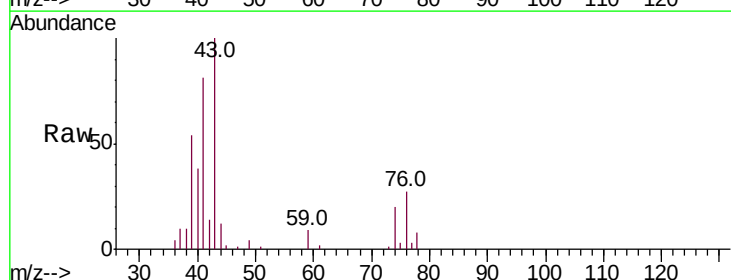
Manual Integrations
APPROVED

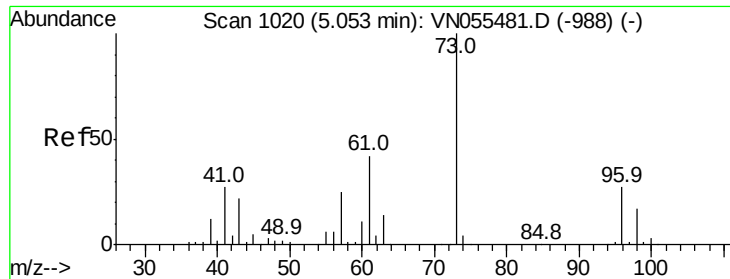
MMDadoda
5/9/2019 6:32:41 PM



#18
Methyl Acetate
Concen: 6.479 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN055478.D
Acq: 8 May 2019 16:34

Tgt Ion	Ratio	Lower	Upper
43	100		
74	20.8	16.3	24.5





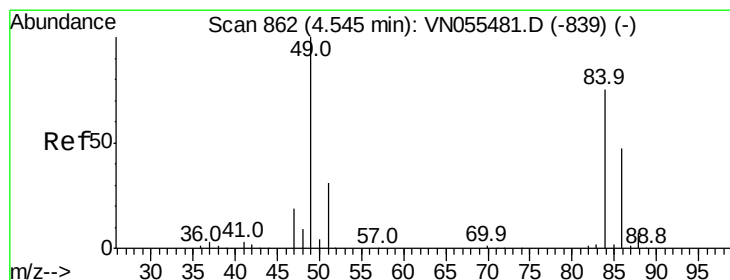
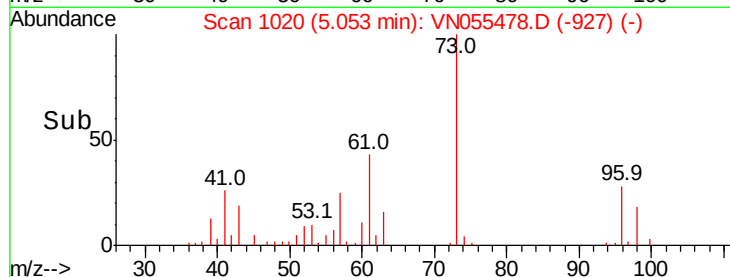
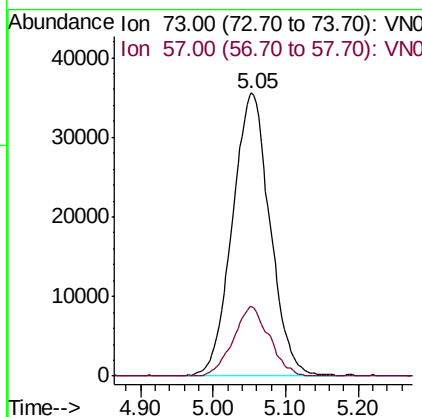
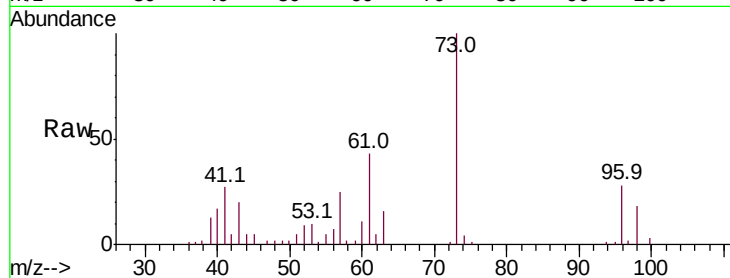
#19
Methyl tert-butyl Ether
Concen: 6.170 ug/l
RT: 5.05 min Scan# 1020
Delta R.T. 0.00 min
Lab File: VN055478.D
Acq: 8 May 2019 16:34

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion: 73 Resp: 128298
Ion Ratio Lower Upper
73 100
57 24.8 20.0 30.0

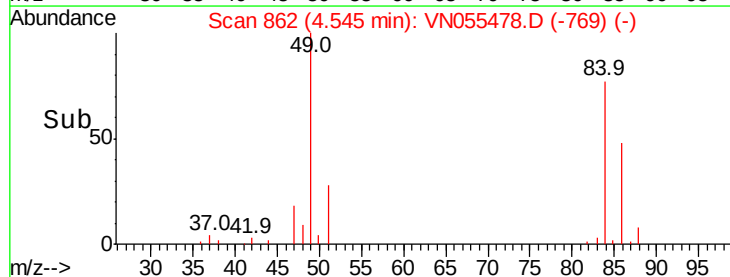
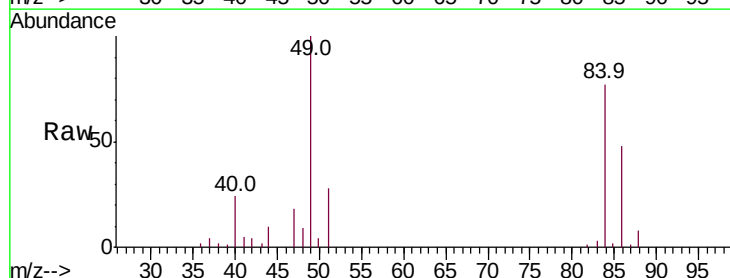
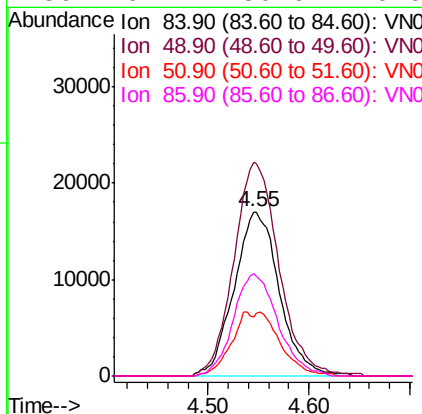
Manual Integrations
APPROVED

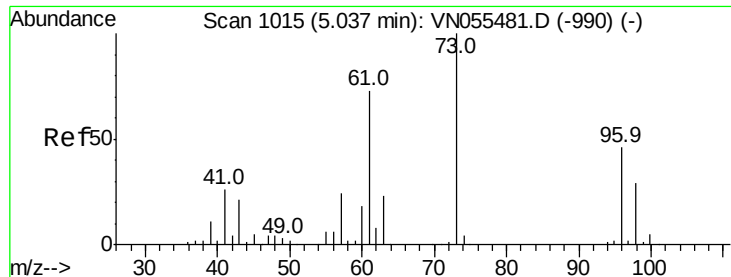
MMDadoda
5/9/2019 6:32:41 PM



#20
Methylene Chloride
Concen: 5.810 ug/l
RT: 4.55 min Scan# 862
Delta R.T. 0.00 min
Lab File: VN055478.D
Acq: 8 May 2019 16:34

Tgt Ion: 84 Resp: 52849
Ion Ratio Lower Upper
84 100
49 130.0 107.0 160.6
51 36.2 33.0 49.4
86 62.2 50.6 76.0





#21

trans-1,2-Dichloroethene

Concen: 5.520 ug/l

RT: 5.04 min Scan# 1015

Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion: 96 Resp: 42122

Ion Ratio Lower Upper

96 100

61 151.6 127.4 191.0

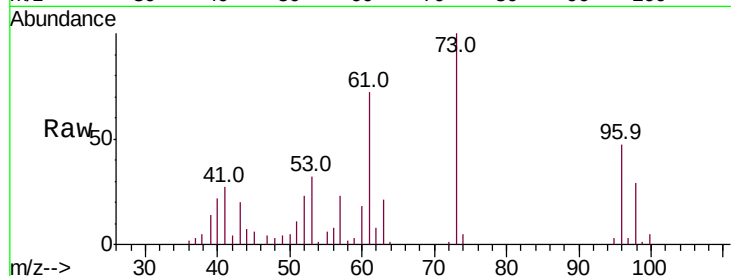
98 60.4 51.6 77.4

Manual Integrations

APPROVED

MMDadoda

5/9/2019 6:32:41 PM

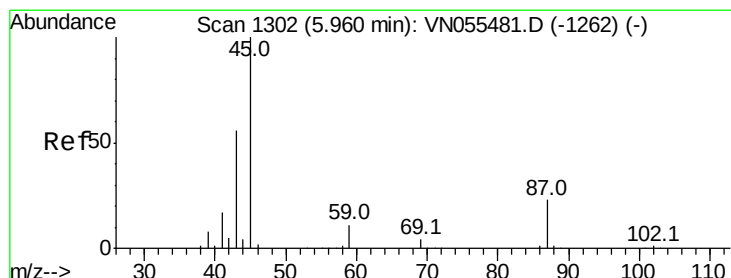
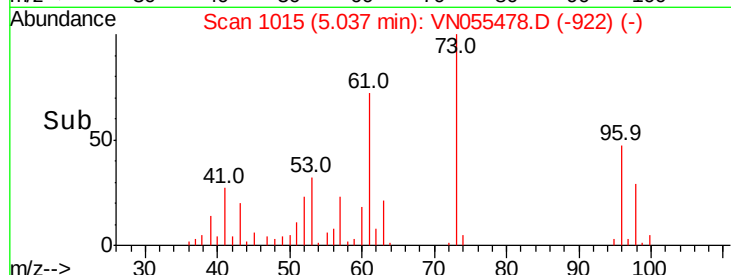
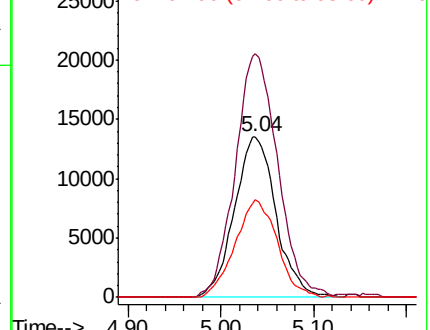


Abundance

Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO



#22

Diisopropyl ether

Concen: 5.388 ug/l

RT: 5.96 min Scan# 1303

Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

Tgt Ion: 45 Resp: 160111

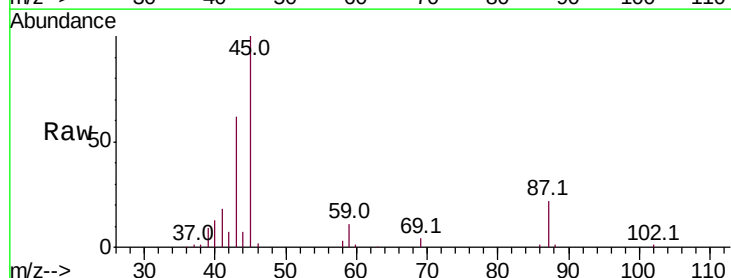
Ion Ratio Lower Upper

45 100

43 58.3 44.6 66.8

87 22.1 18.6 28.0

59 10.6 8.6 12.8



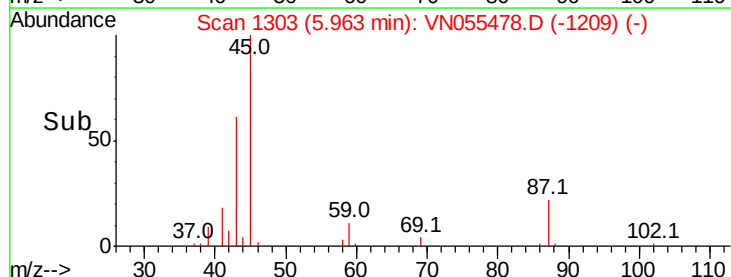
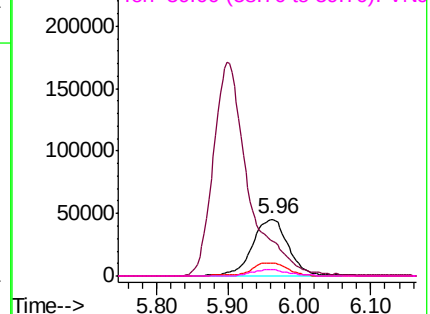
Abundance

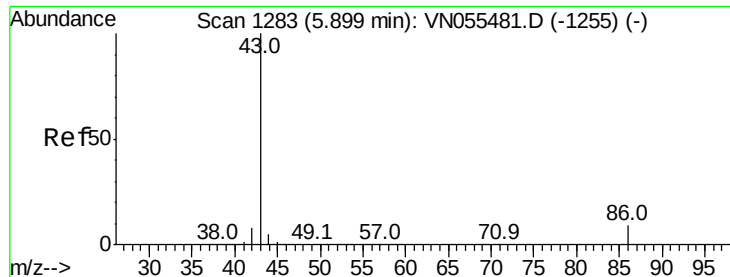
Ion 45.00 (44.70 to 45.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

Ion 59.00 (58.70 to 59.70): VNO





#23

Vinyl Acetate

Concen: 29.046 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 583900

Ion Ratio Lower Upper

43 100

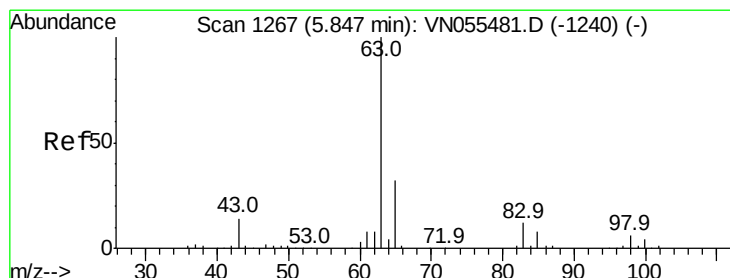
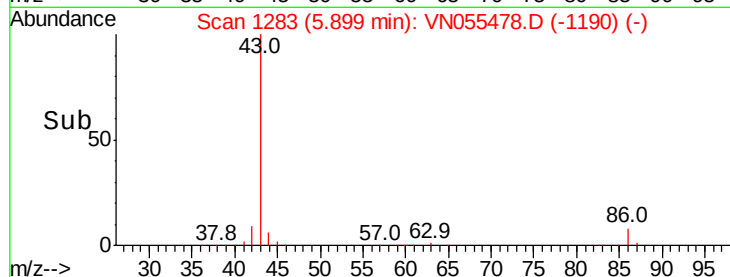
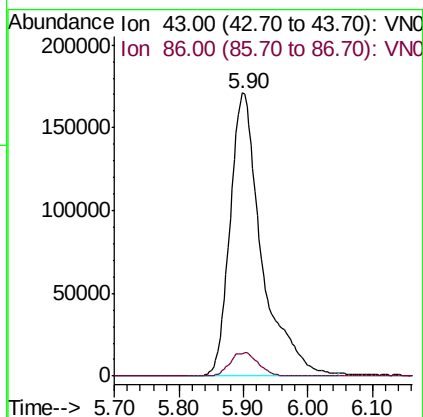
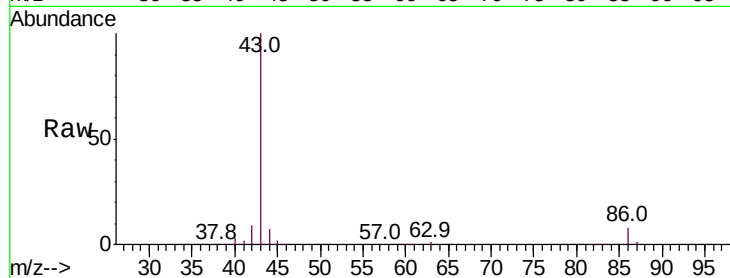
86 8.0 7.1 10.7

Manual Integrations

APPROVED

MMDadoda

5/9/2019 6:32:41 PM



#24

1,1-Dichloroethane

Concen: 5.459 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

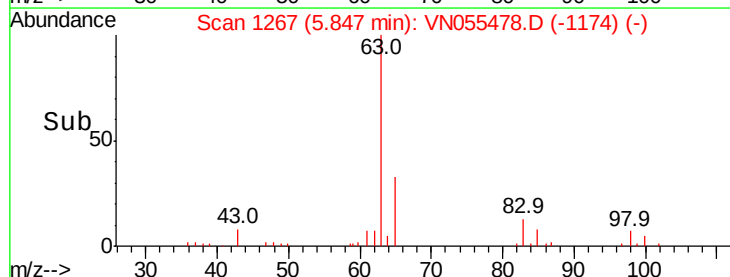
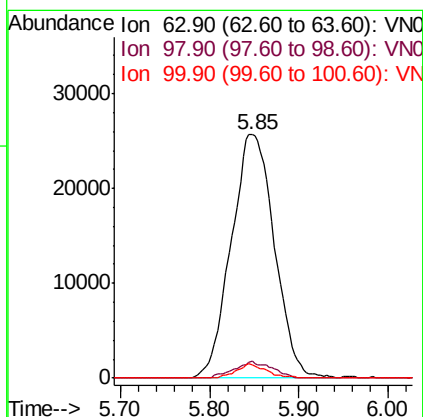
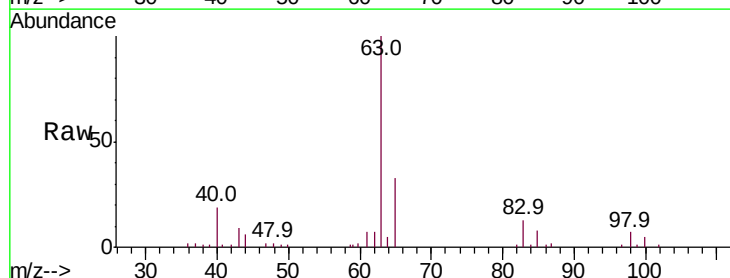
Tgt Ion: 63 Resp: 86433

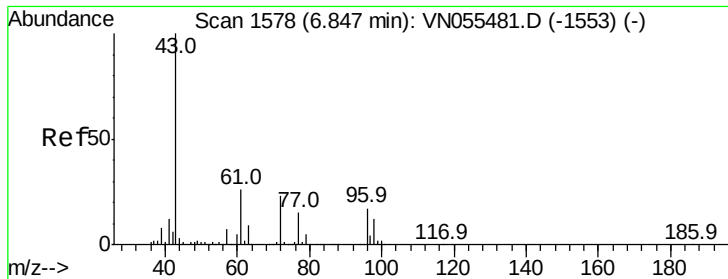
Ion Ratio Lower Upper

63 100

98 6.8 3.0 9.0

100 5.4 1.9 5.7





#25

2-Butanone

Concen: 38.296 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. -0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion: 43 Resp: 163953

Ion Ratio Lower Upper

43 100

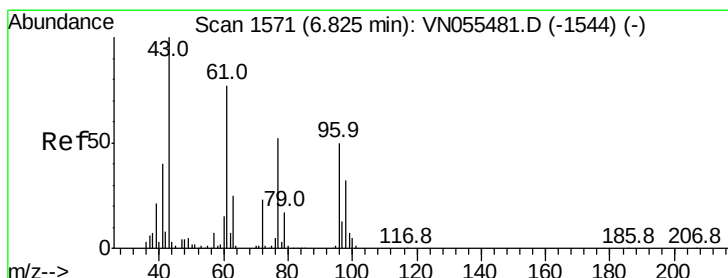
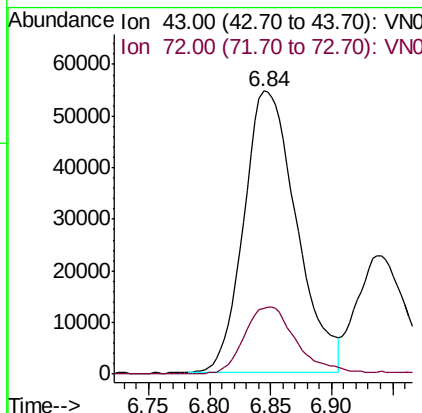
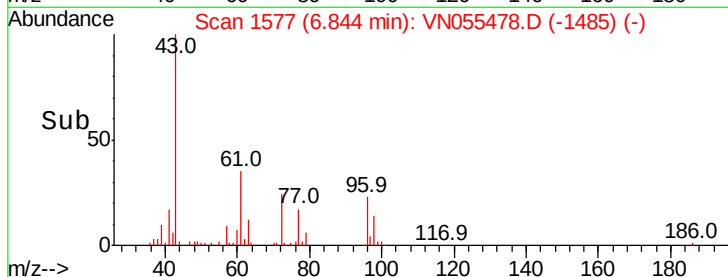
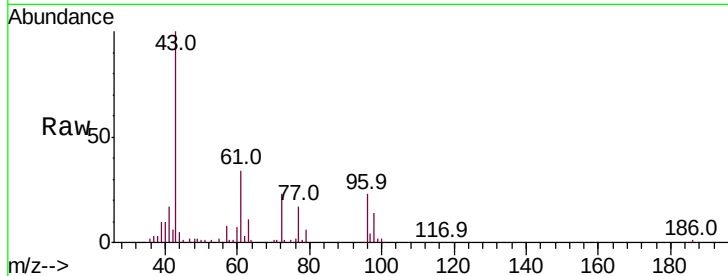
72 23.5 18.6 27.8

Manual Integrations

APPROVED

MMDadoda

5/9/2019 6:32:41 PM



#26

2,2-Dichloropropane

Concen: 4.880 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. -0.00 min

Lab File: VN055478.D

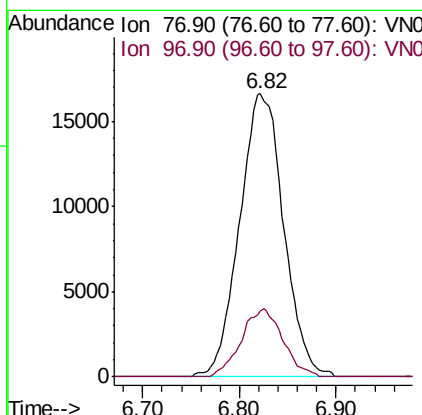
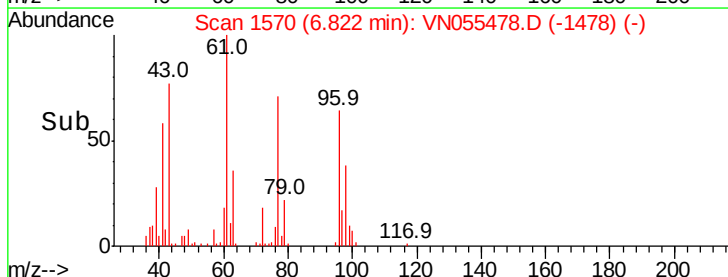
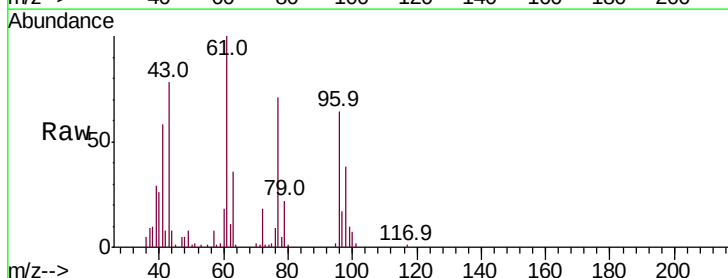
Acq: 8 May 2019 16:34

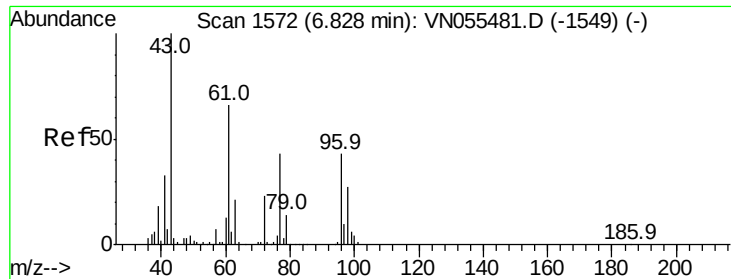
Tgt Ion: 77 Resp: 52602

Ion Ratio Lower Upper

77 100

97 22.8 11.5 34.5





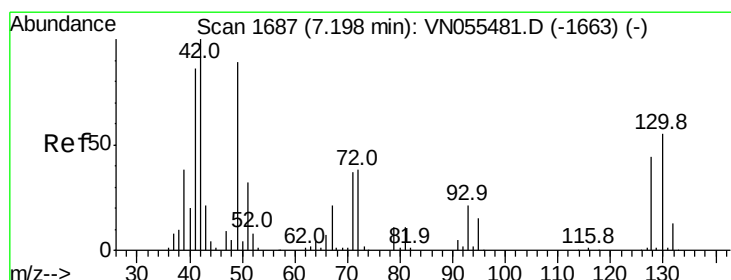
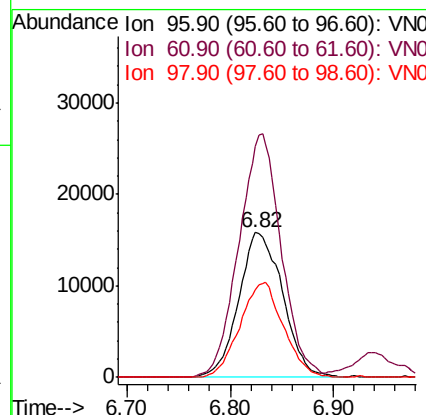
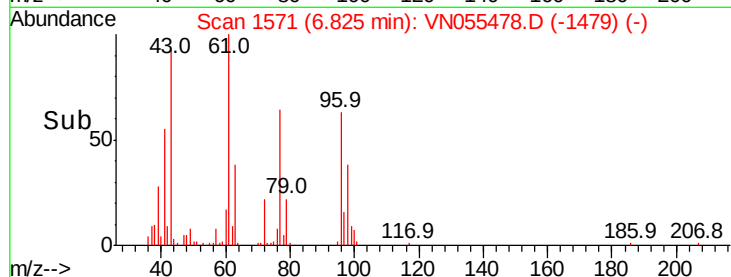
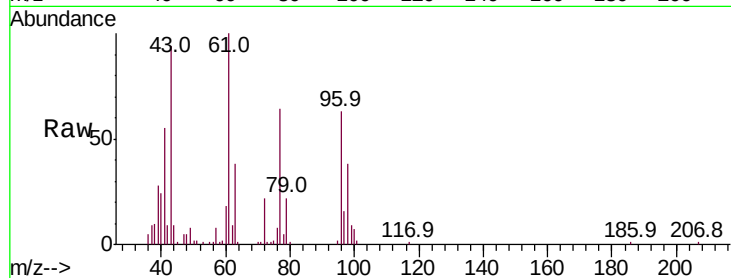
#27
 cis-1,2-Dichloroethene
 Concen: 5.370 ug/l
 RT: 6.82 min Scan# 1571
 Delta R.T. -0.00 min
 Lab File: VN055478.D
 Acq: 8 May 2019 16:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
96	100		
61	161.6	0.0	310.8
98	64.8	0.0	129.4

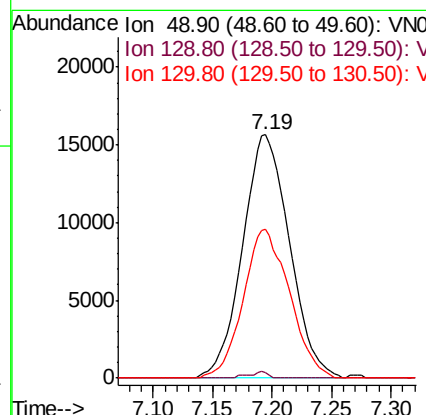
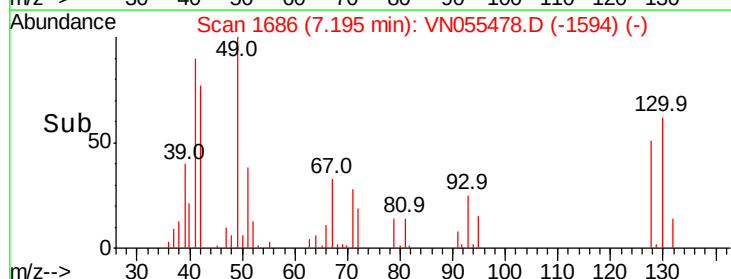
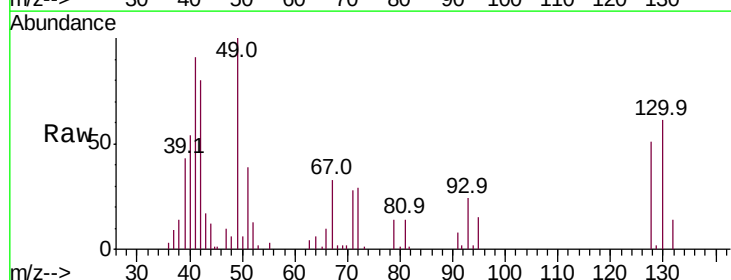
Manual Integrations
 APPROVED

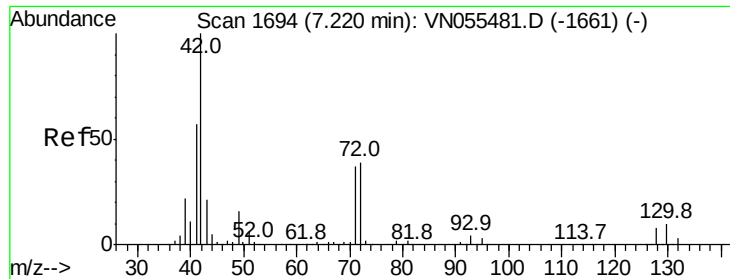
MMDadoda
 5/9/2019 6:32:41 PM



#28
 Bromochloromethane
 Concen: 5.295 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. -0.00 min
 Lab File: VN055478.D
 Acq: 8 May 2019 16:34

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.0	0.0	3.2
130	60.3	49.5	74.3





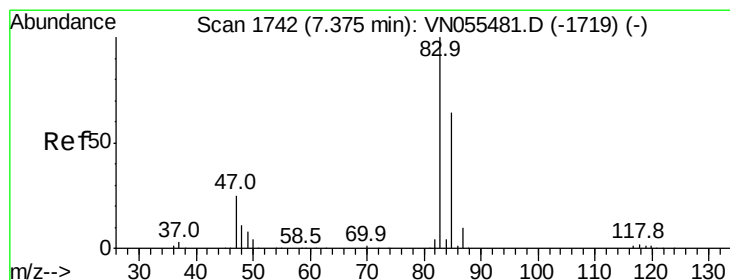
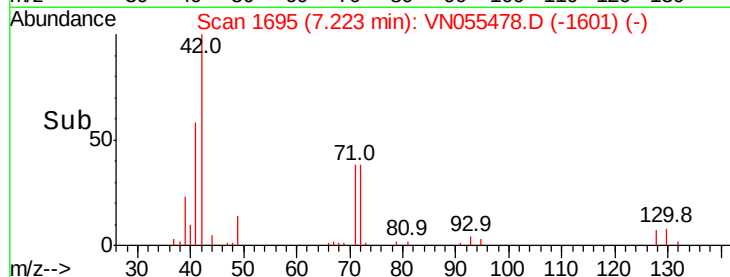
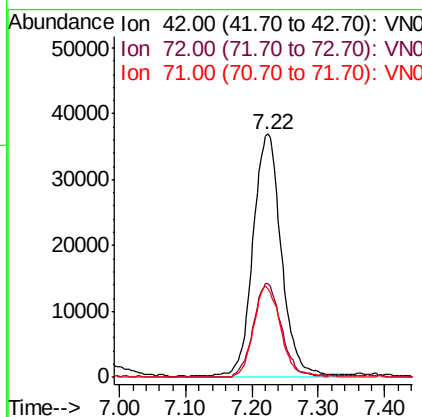
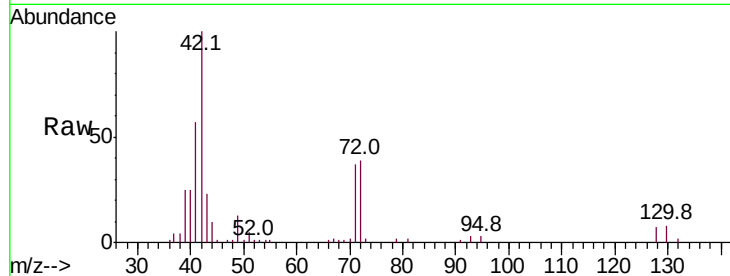
#29
Tetrahydrofuran
Concen: 40.524 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.00 min
Lab File: VN055478.D
Acq: 8 May 2019 16:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.8	31.0	46.6
71	35.5	29.4	44.2

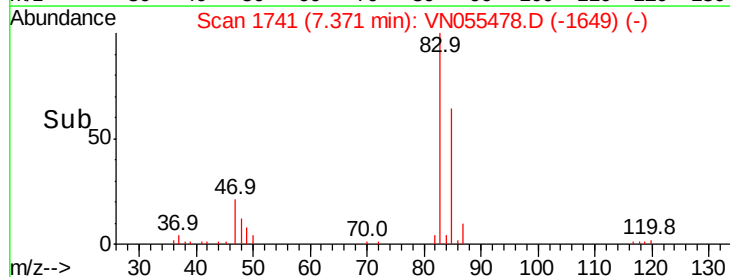
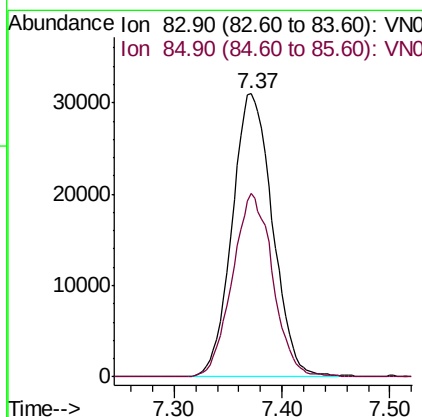
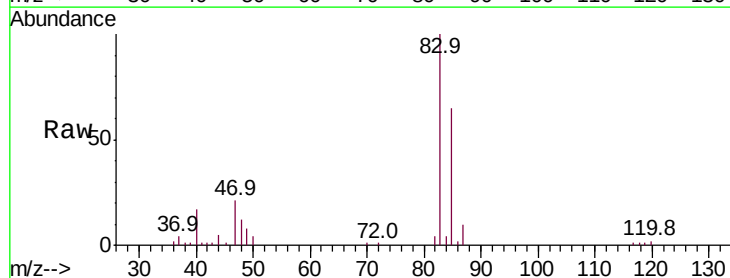
Manual Integrations
APPROVED

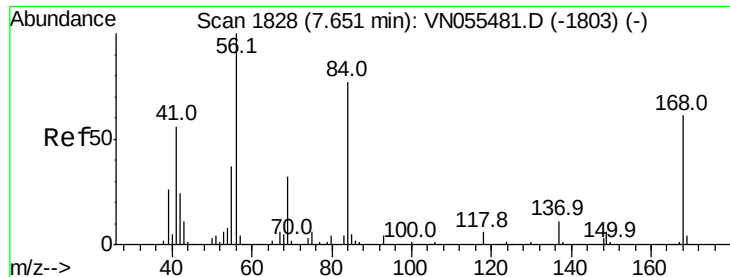
MMDadoda
5/9/2019 6:32:41 PM



#30
Chloroform
Concen: 5.397 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN055478.D
Acq: 8 May 2019 16:34

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.3	76.9





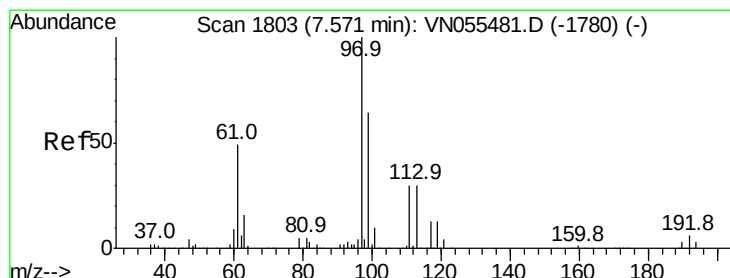
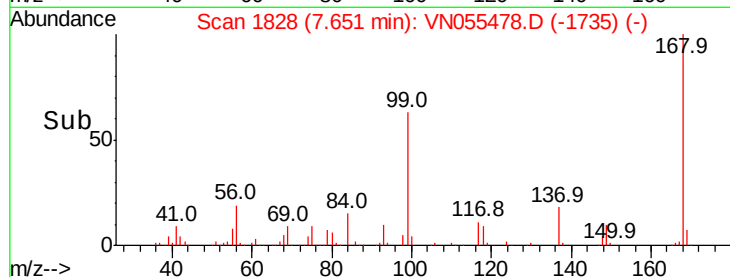
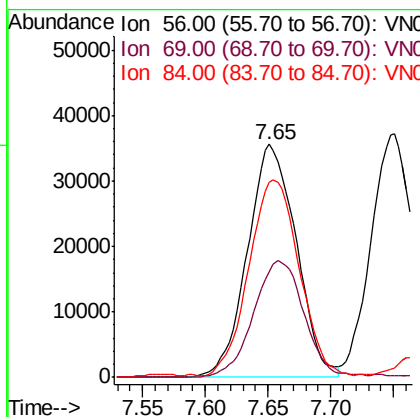
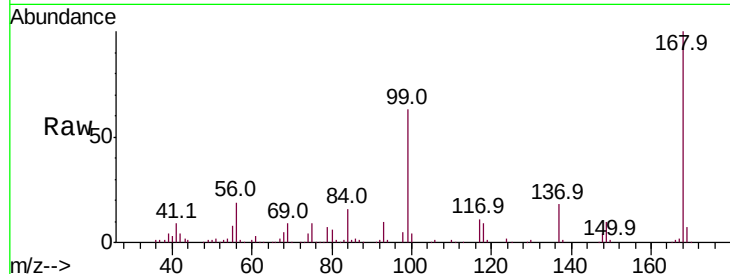
#31
Cyclohexane
Concen: 6.338 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.00 min
Lab File: VN055478.D
Acq: 8 May 2019 16:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
56	100		
69	45.3	26.0	39.0#
84	82.4	61.9	92.9

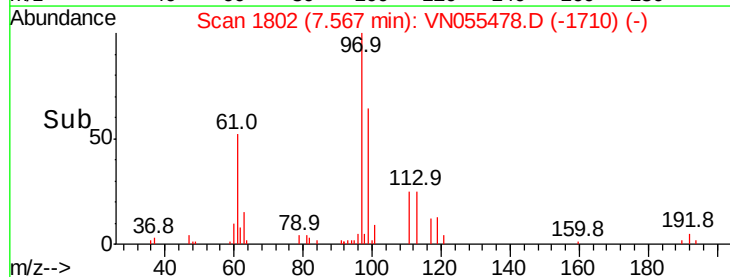
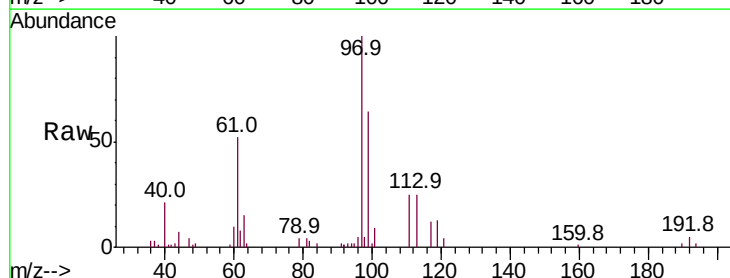
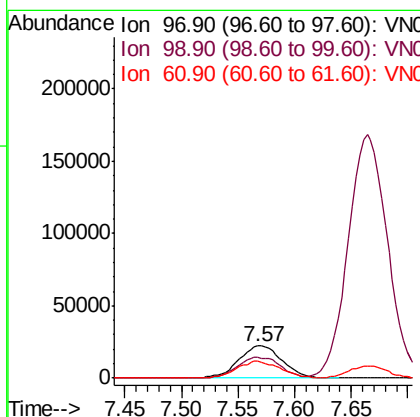
Manual Integrations
APPROVED

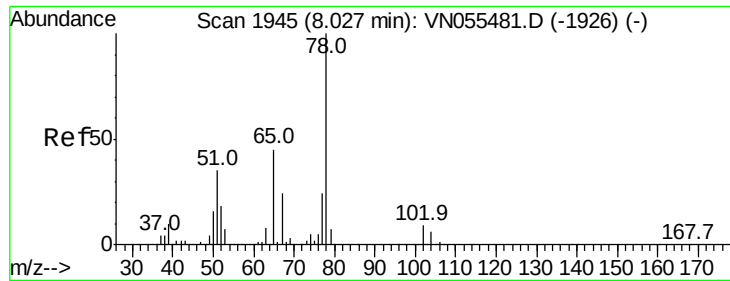
MMDadoda
5/9/2019 6:32:41 PM



#32
1,1,1-Trichloroethane
Concen: 4.947 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. -0.00 min
Lab File: VN055478.D
Acq: 8 May 2019 16:34

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.9	51.2	76.8
61	52.6	39.2	58.8





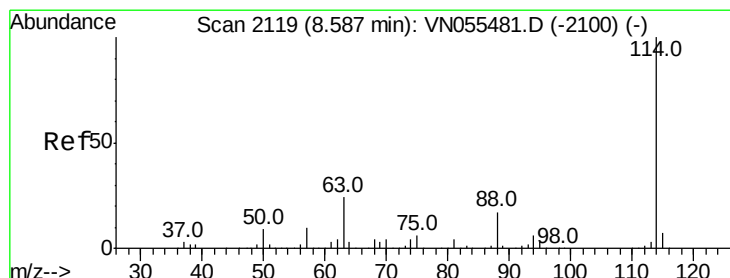
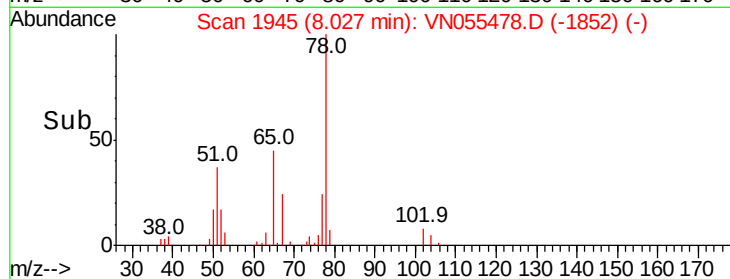
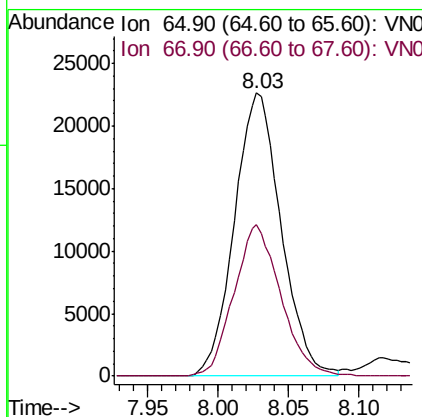
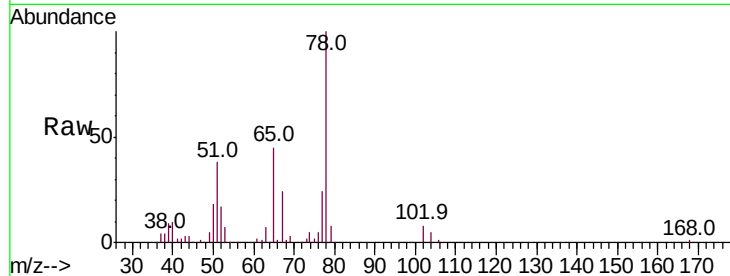
#33
 1,2-Dichloroethane-d4
 Concen: 5.432 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055478.D
 Acq: 8 May 2019 16:34

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
65	100		
67	53.6	0.0	109.6

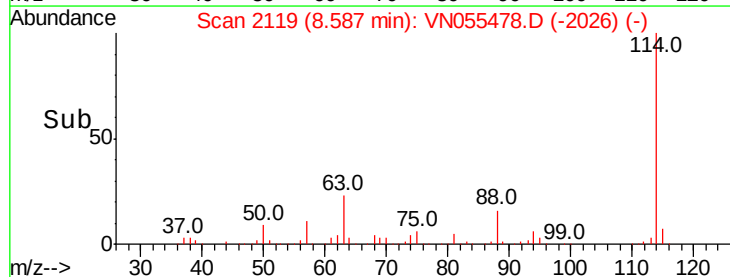
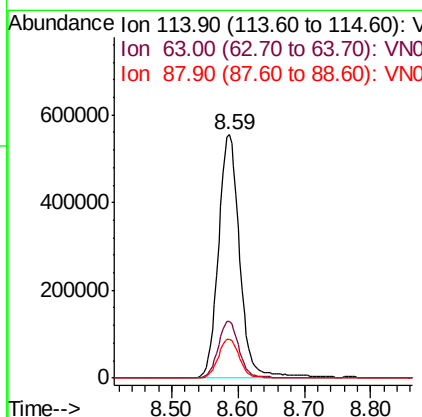
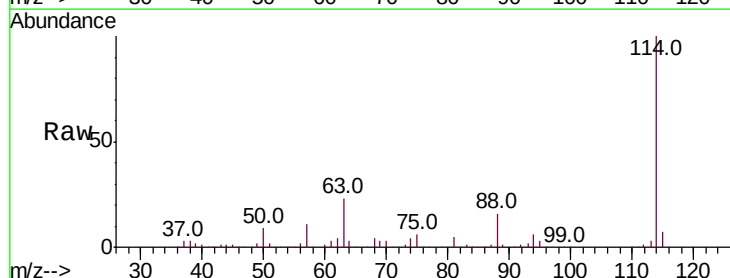
Manual Integrations
 APPROVED

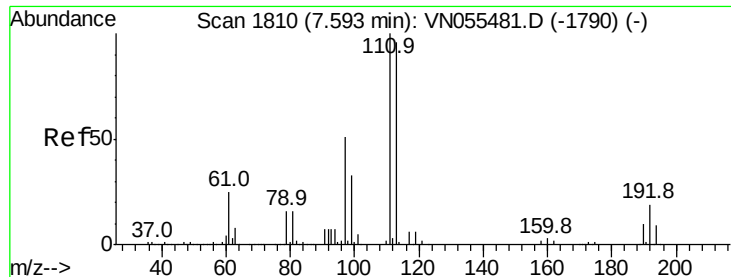
MMDadoda
 5/9/2019 6:32:41 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055478.D
 Acq: 8 May 2019 16:34

Tgt Ion	Ratio	Lower	Upper
114	100		
63	23.3	0.0	47.4
88	16.2	0.0	34.0





#35

Dibromofluoromethane

Concen: 4.611 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

Instrument :

MSVOA_N

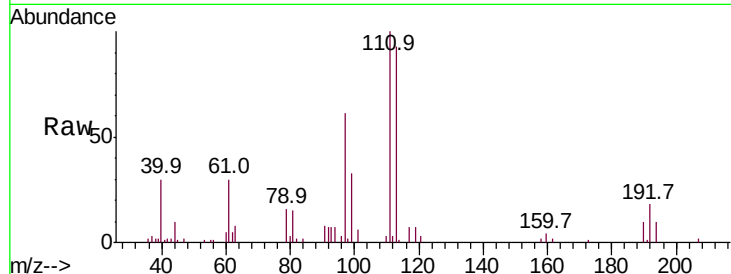
ClientSampled :

VSTDIC005

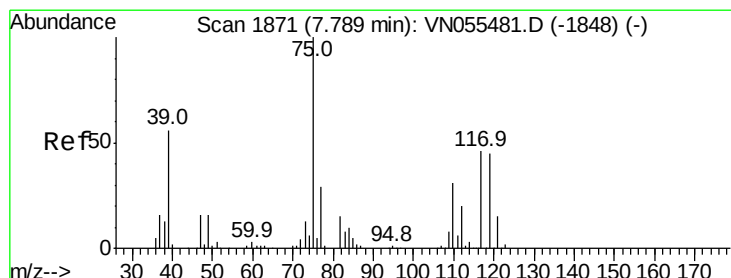
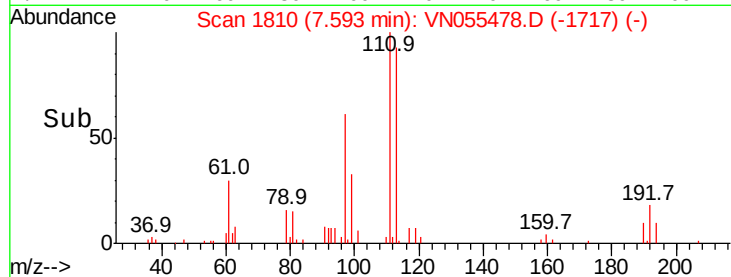
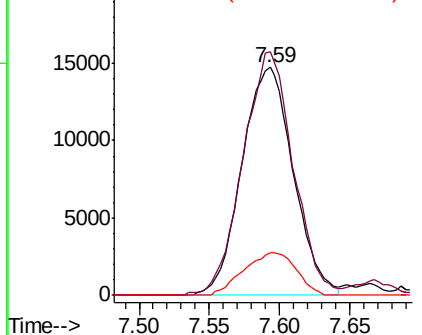
Tot Ion:	113	Resp:	37582
Ion	Ratio	Lower	Upper
113	100		
111	104.3	82.9	124.3
192	19.1	15.6	23.4

Manual Integrations
APPROVED

MMDadoda
5/9/2019 6:32:41 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: 4.955 ug/l

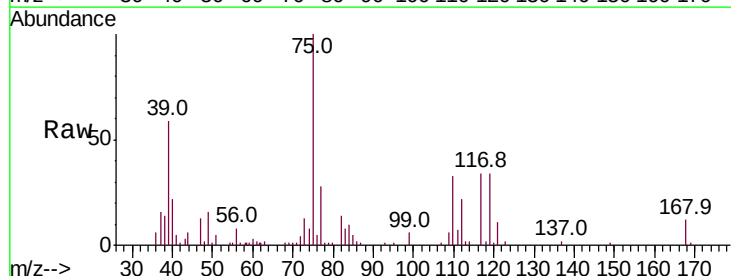
RT: 7.79 min Scan# 1872

Delta R.T. 0.00 min

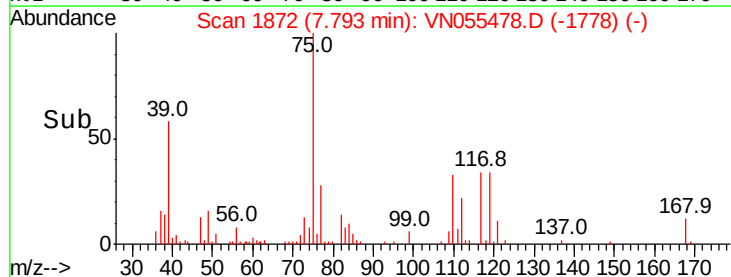
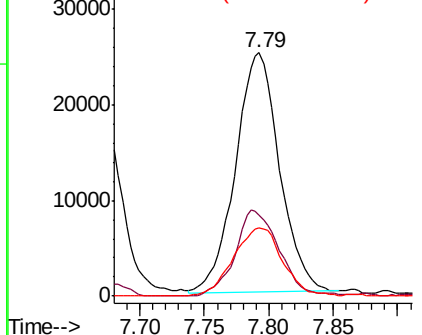
Lab File: VN055478.D

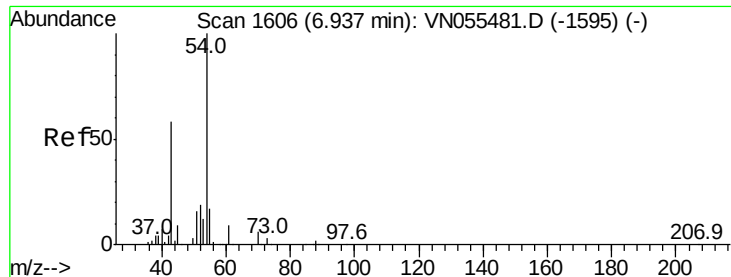
Acq: 8 May 2019 16:34

Tgt Ion:	75	Resp:	59674
Ion	Ratio	Lower	Upper
75	100		
110	36.0	16.1	48.3
77	31.7	24.6	37.0



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





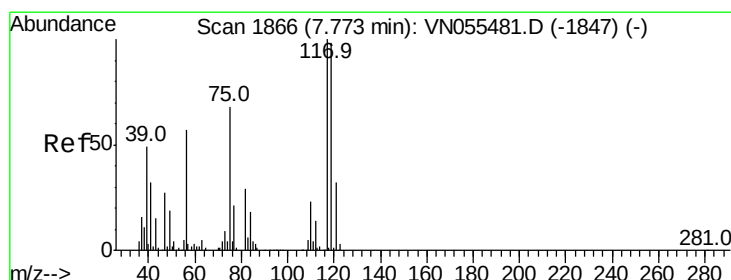
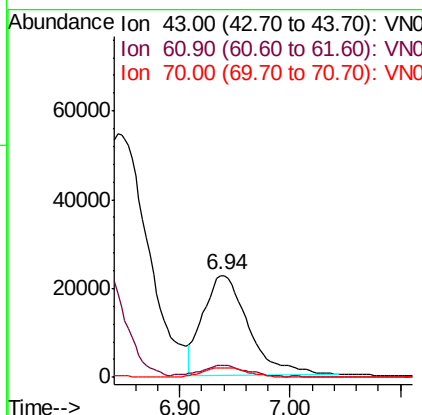
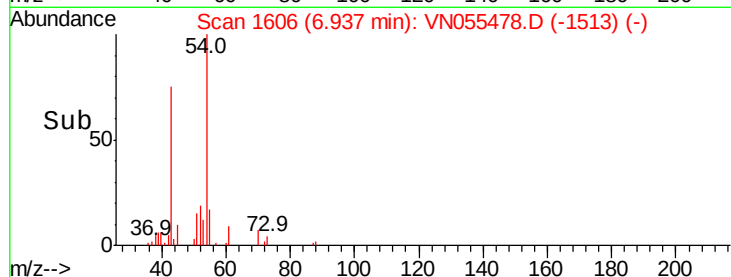
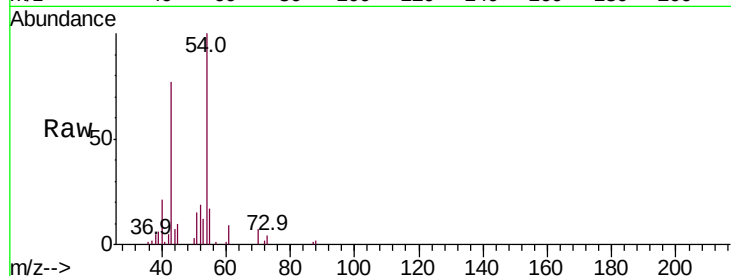
#37
Ethyl Acetate
Concen: 6.483 ug/l
RT: 6.94 min Scan# 1606
Delta R.T. 0.00 min
Lab File: VN055478.D
Acq: 8 May 2019 16:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
61	11.4	10.9	16.3
70	9.7	7.0	10.6

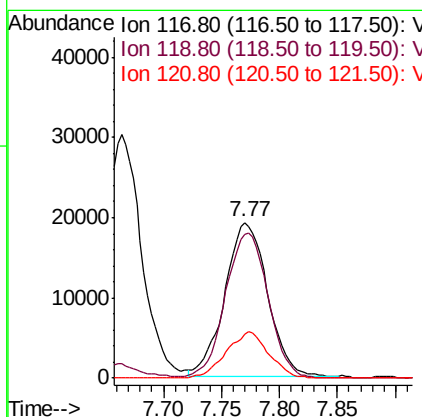
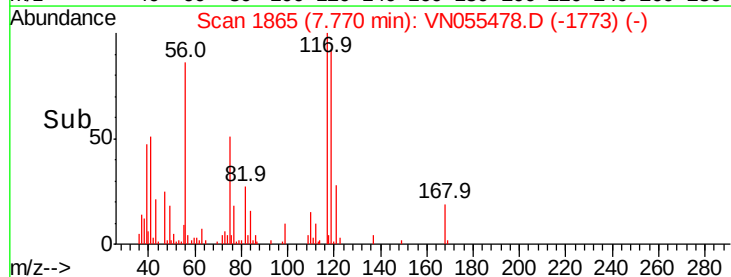
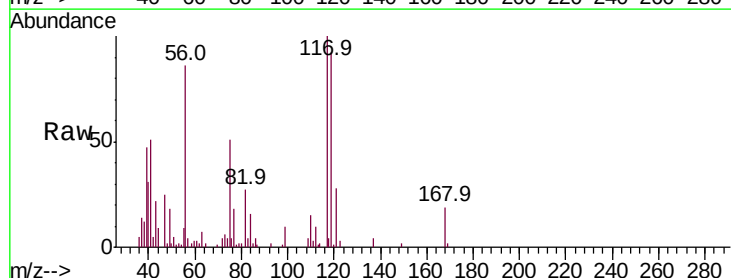
Manual Integrations
APPROVED

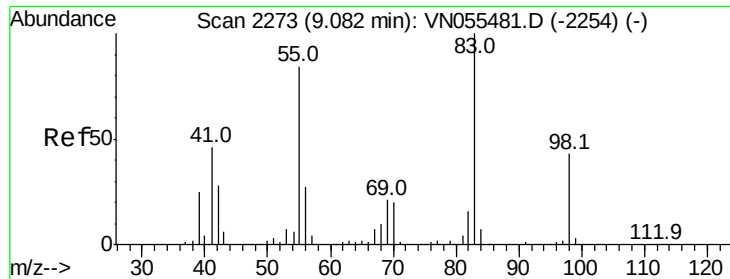
MMDadoda
5/9/2019 6:32:41 PM



#38
Carbon Tetrachloride
Concen: 4.391 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN055478.D
Acq: 8 May 2019 16:34

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.2	77.8	116.6
121	28.1	25.2	37.8





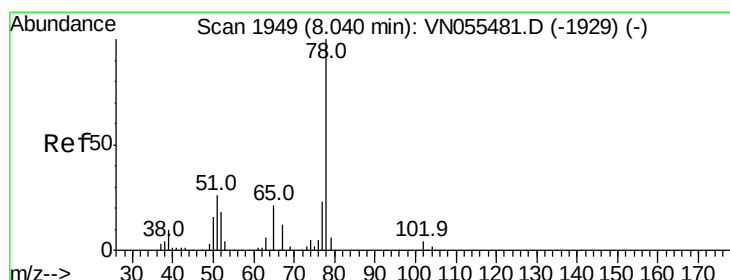
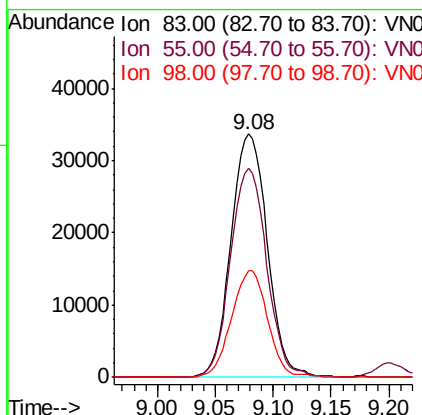
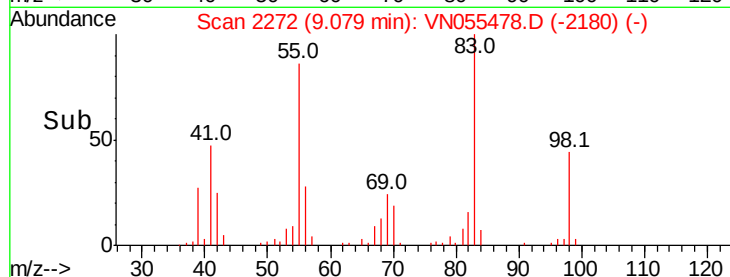
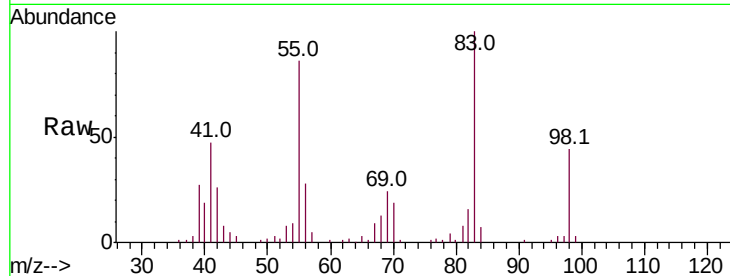
#39
Methylvlcyclohexane
Concen: 5.677 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN055478.D
Acq: 8 May 2019 16:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
83	100		
55	85.8	67.0	100.4
98	43.6	34.2	51.4

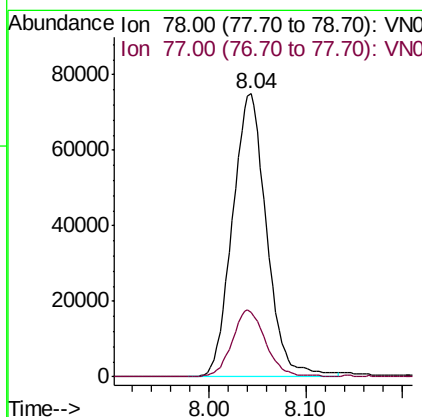
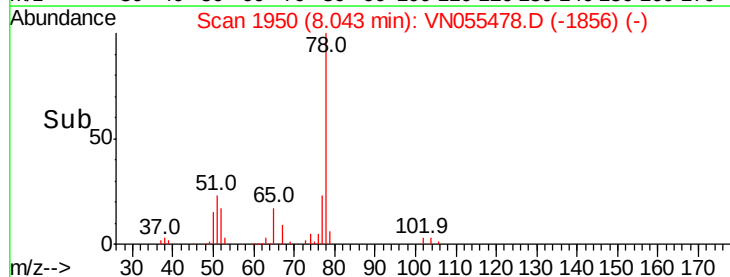
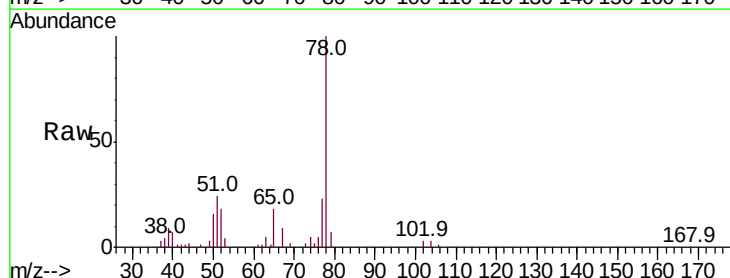
Manual Integrations
APPROVED

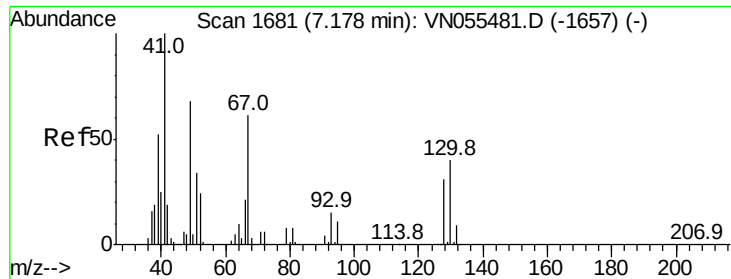
MMDadoda
5/9/2019 6:32:41 PM



#40
Benzene
Concen: 5.170 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN055478.D
Acq: 8 May 2019 16:34

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.9	18.6	27.8





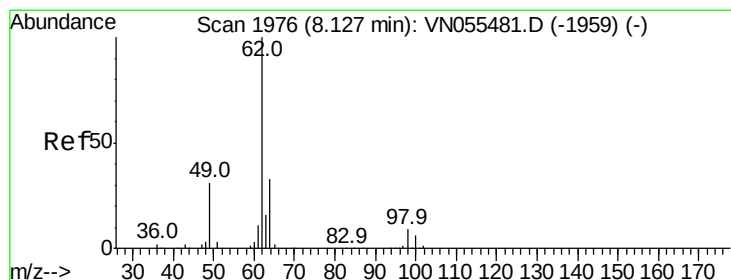
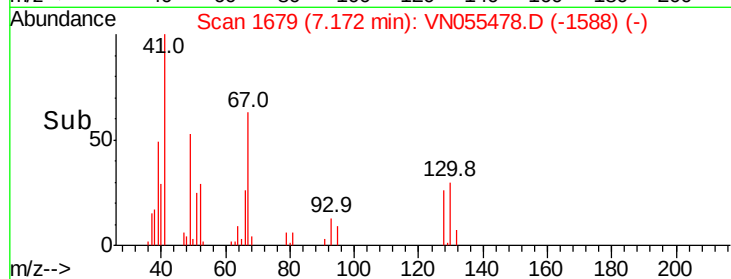
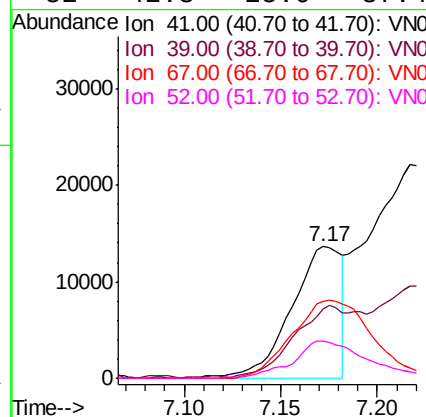
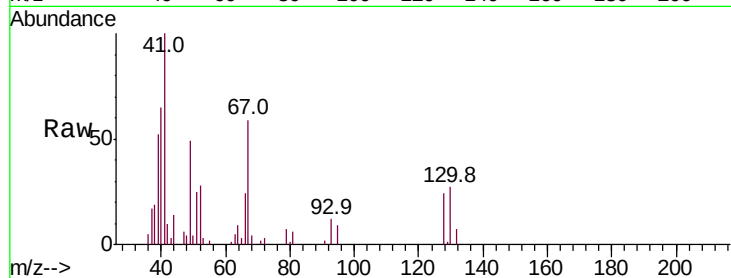
#41
Methacrylonitrile
Concen: 4.803 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.01 min
Lab File: VN055478.D
Acq: 8 May 2019 16:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
41	100		
39	57.9	44.7	67.1
67	95.7	61.4	92.0#
52	42.3	25.0	37.4#

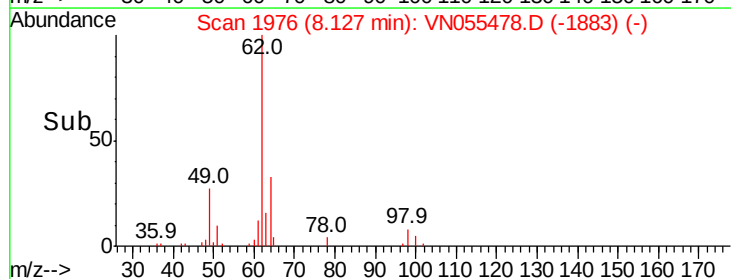
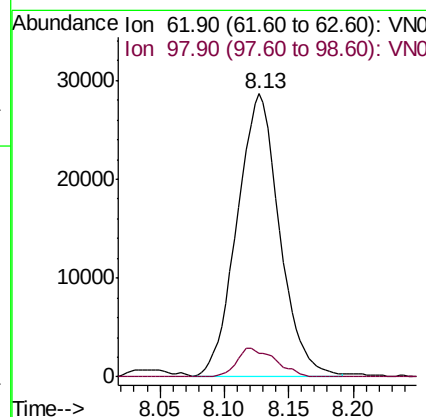
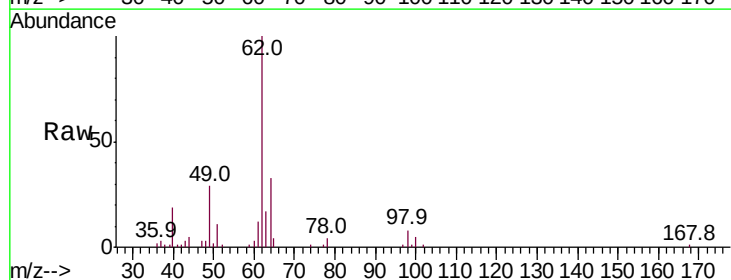
Manual Integrations
APPROVED

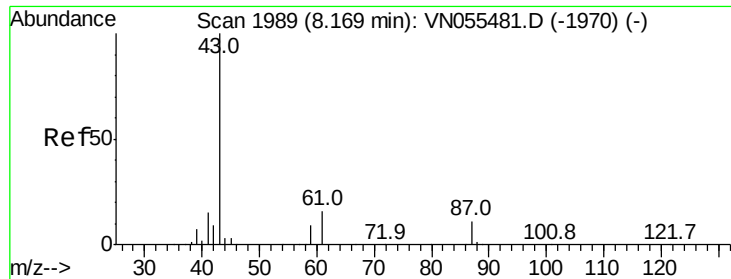
MMDadoda
5/9/2019 6:32:41 PM



#42
1,2-Dichloroethane
Concen: 5.247 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN055478.D
Acq: 8 May 2019 16:34

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	17.4





#43

Isopropyl Acetate

Concen: 5.961 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

Instrument :

MSVOA_N

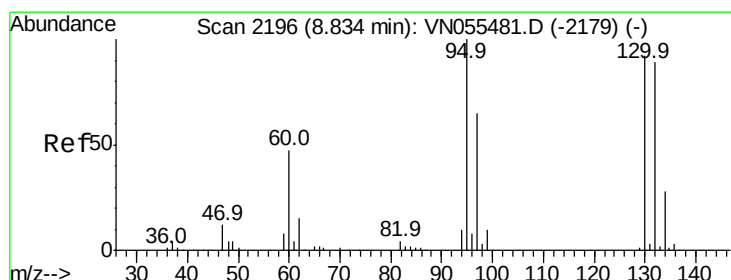
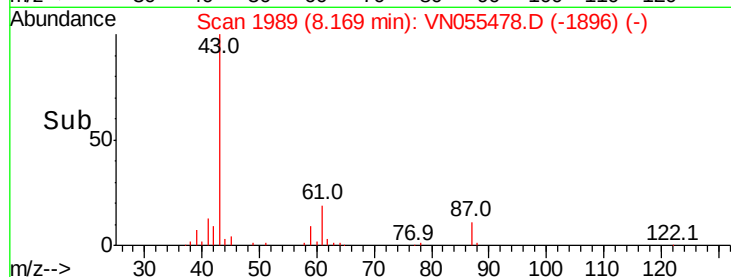
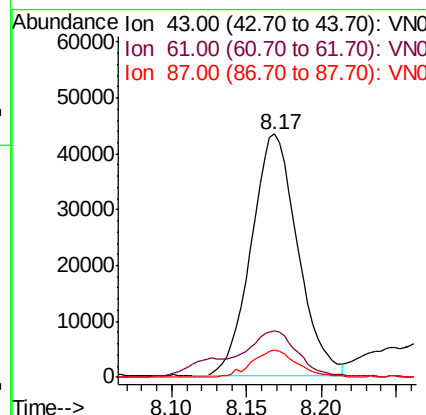
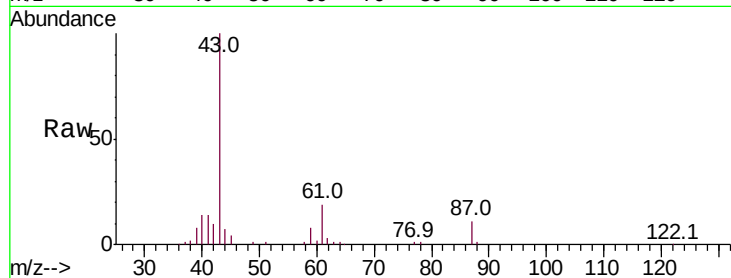
ClientSampleId :

VSTDIC005

Tot Ion:	43	Resp:	93526
Ion	Ratio	Lower	Upper
43	100		
61	19.7	15.1	22.7
87	11.0	9.0	13.6

Manual Integrations
APPROVED

MMDadoda
5/9/2019 6:32:41 PM



#44

Trichloroethene

Concen: 4.962 ug/l

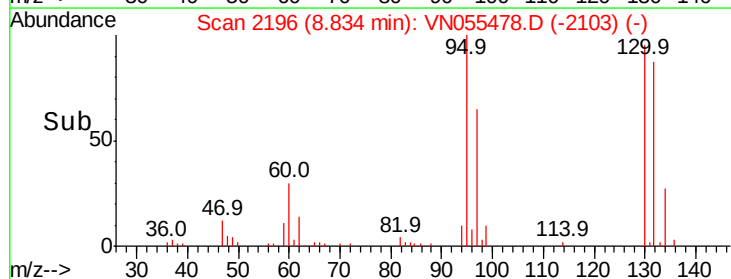
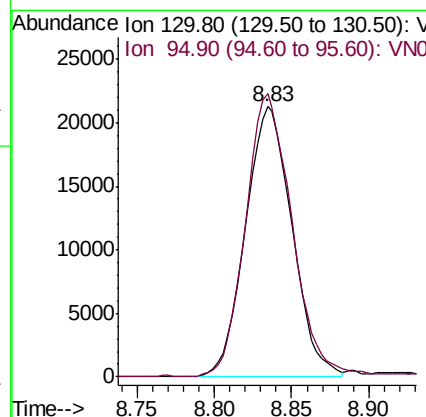
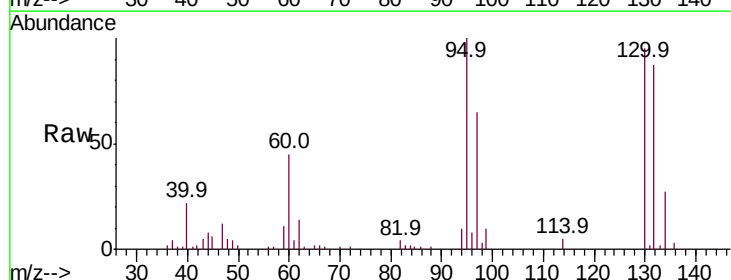
RT: 8.83 min Scan# 2196

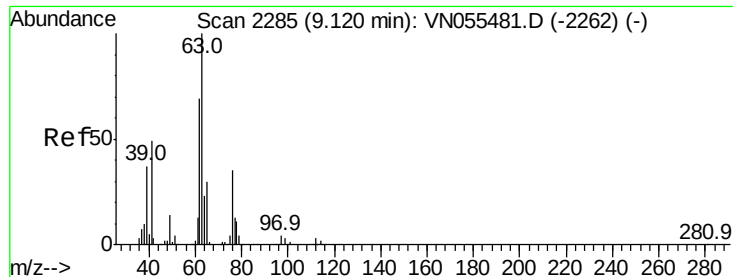
Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

Tgt Ion:	130	Resp:	44472
Ion	Ratio	Lower	Upper
130	100		
95	104.8	0.0	216.8





#45

1,2-Dichloropropane

Concen: 5.239 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion: 63 Resp: 53575

Ion Ratio Lower Upper

63 100

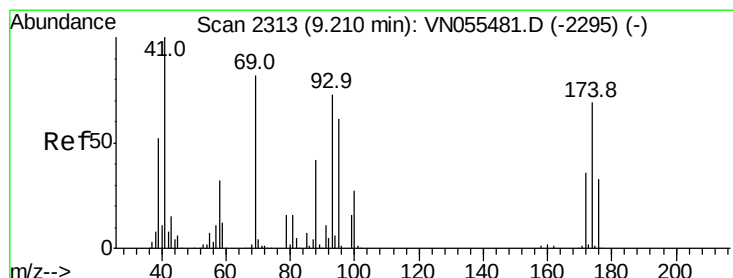
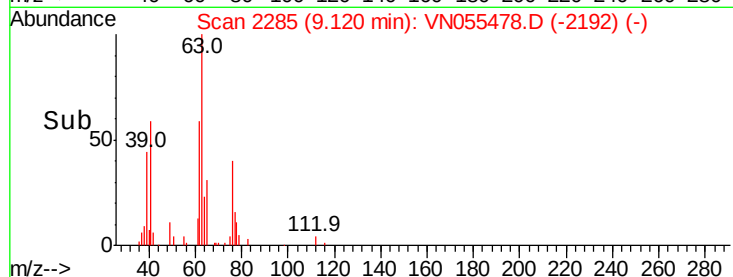
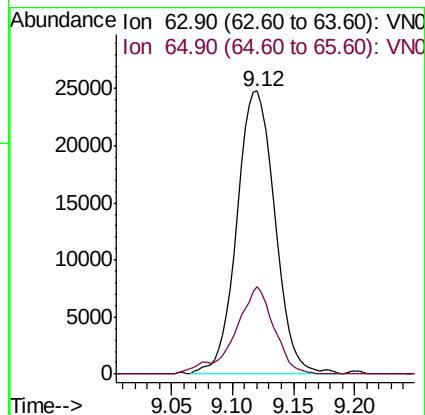
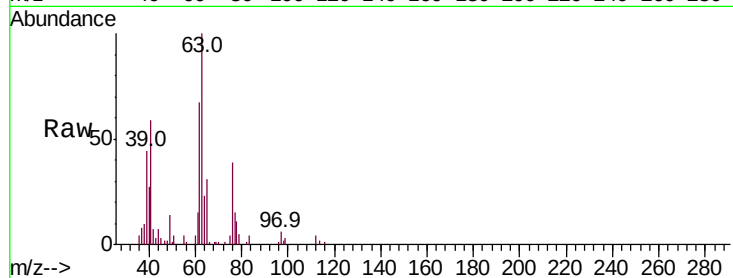
65 31.0 24.1 36.1

Manual Integrations

APPROVED

MMDadoda

5/9/2019 6:32:41 PM



#46

Dibromomethane

Concen: 5.450 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

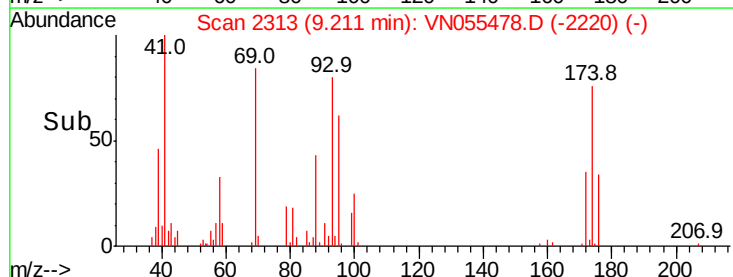
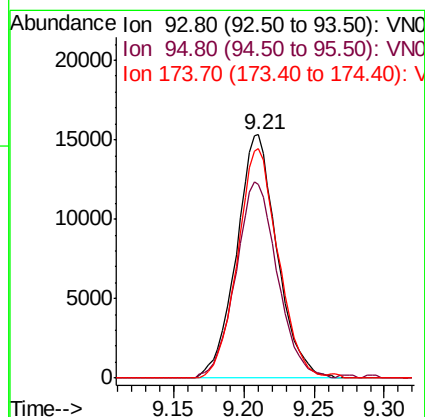
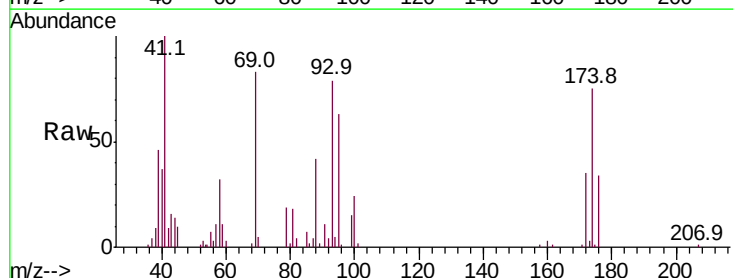
Tgt Ion: 93 Resp: 30829

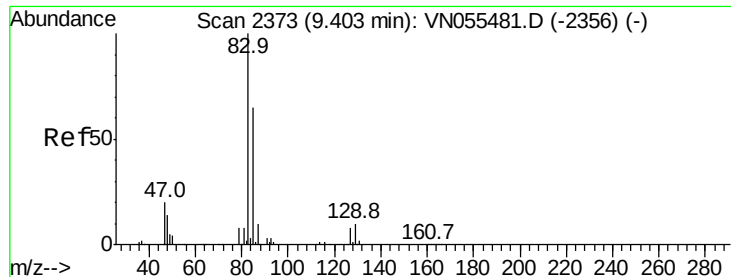
Ion Ratio Lower Upper

93 100

95 82.5 64.8 97.2

174 94.1 75.0 112.6





#47

Bromodichloromethane

Concen: 4.722 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

Instrument :

MSVOA_N

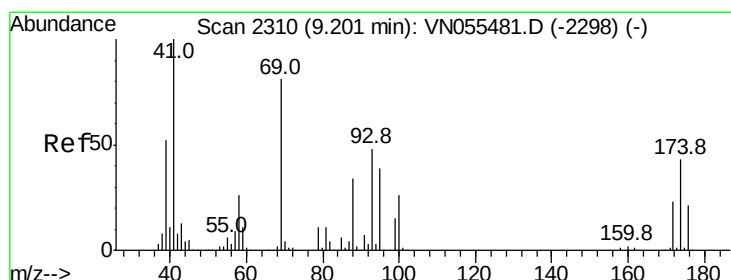
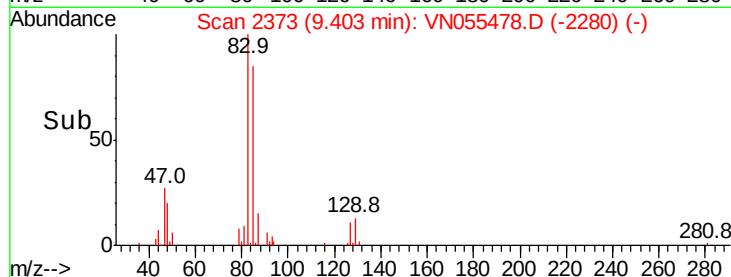
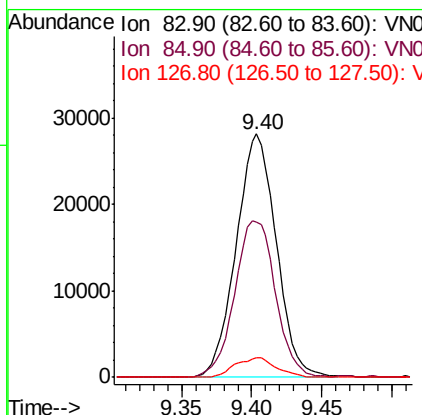
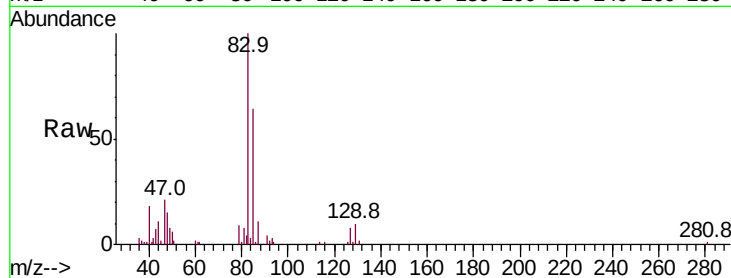
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	56198
Ion	Ratio	Lower	Upper
83	100		
85	63.6	52.2	78.2
127	8.0	6.5	9.7

Manual Integrations
APPROVED

MMDadoda
5/9/2019 6:32:41 PM



#48

Methyl methacrylate

Concen: 5.783 ug/l

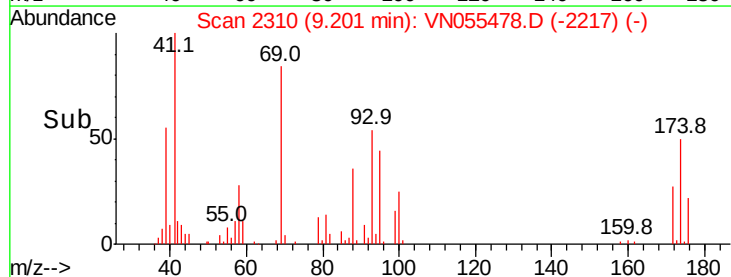
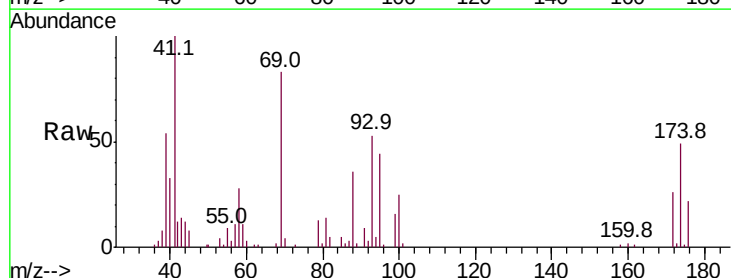
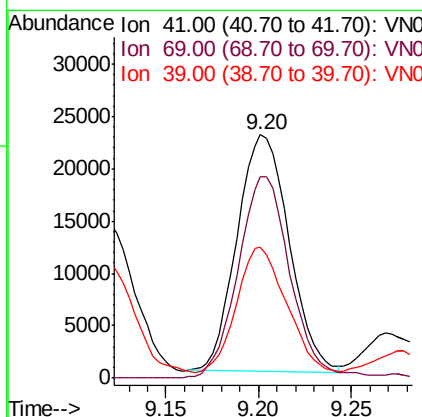
RT: 9.20 min Scan# 2310

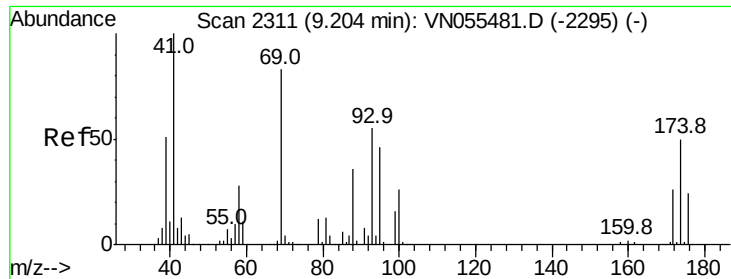
Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

Tgt Ion:	41	Resp:	44347
Ion	Ratio	Lower	Upper
41	100		
69	85.2	64.2	96.2
39	53.9	41.6	62.4





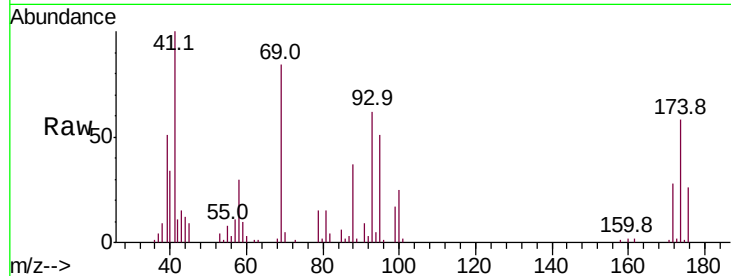
#49
1,4-Dioxane
Concen: 194.287 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN055478.D
Acq: 8 May 2019 16:34

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
88	100		
43	31.9	27.8	41.8
58	78.5	61.8	92.6

Manual Integrations
APPROVED

MMDadoda
5/9/2019 6:32:41 PM

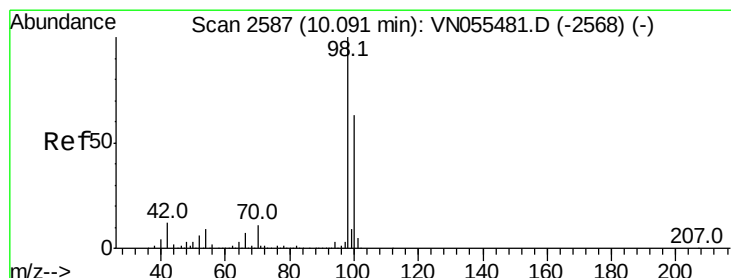
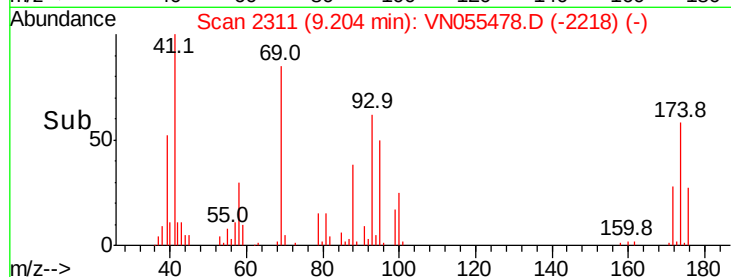
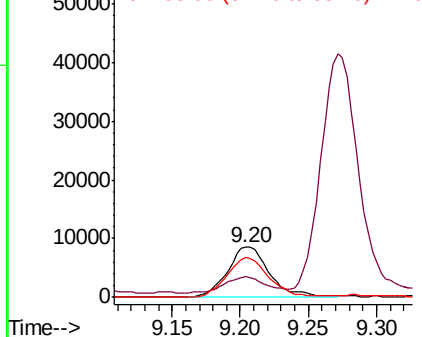


Abundance

Ion 88.00 (87.70 to 88.70): VN0

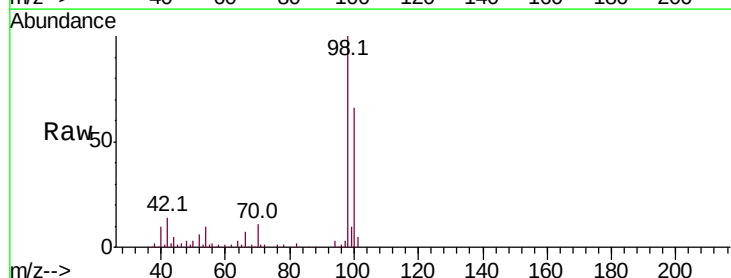
Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50
Toluene-d8
Concen: 4.741 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN055478.D
Acq: 8 May 2019 16:34

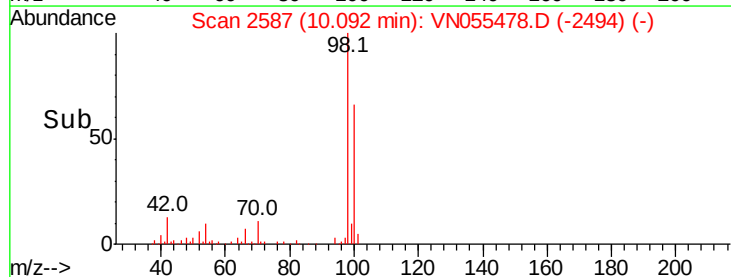
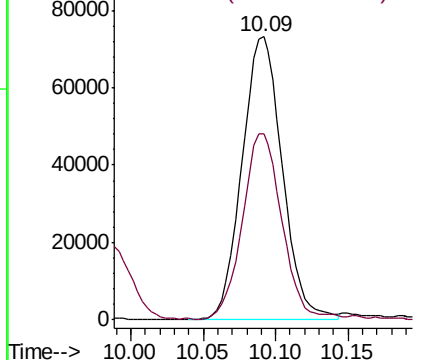
Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.0	50.4	75.6

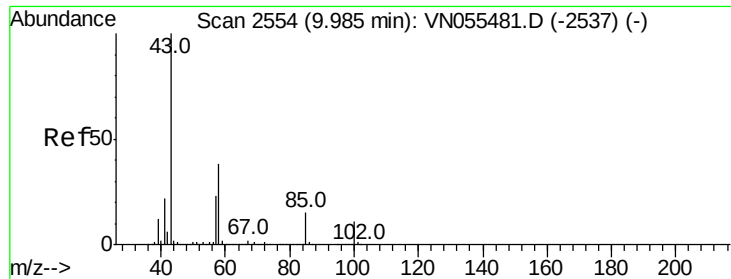


Abundance

Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 34.151 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 312688

Ion Ratio Lower Upper

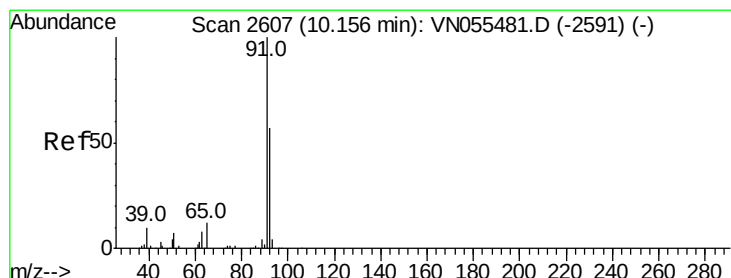
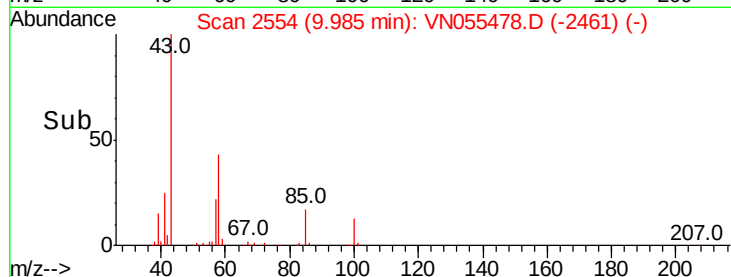
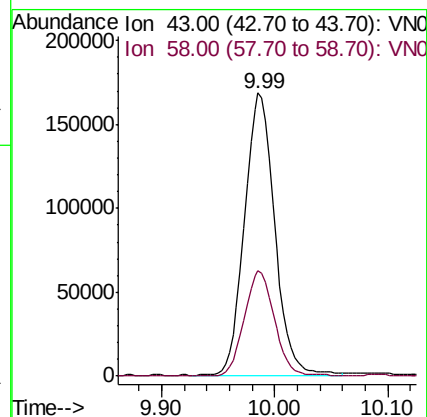
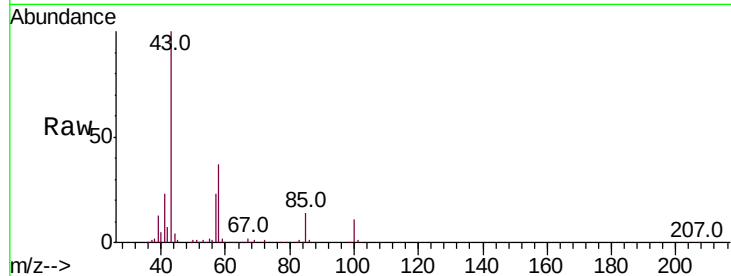
43 100

58 37.1 29.9 44.9

Manual Integrations
APPROVED

MMDadoda

5/9/2019 6:32:41 PM



#52

Toluene

Concen: 5.170 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN055478.D

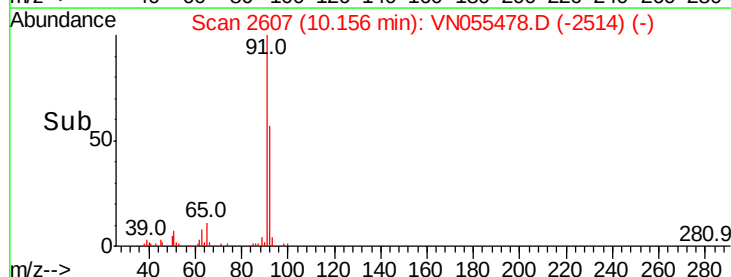
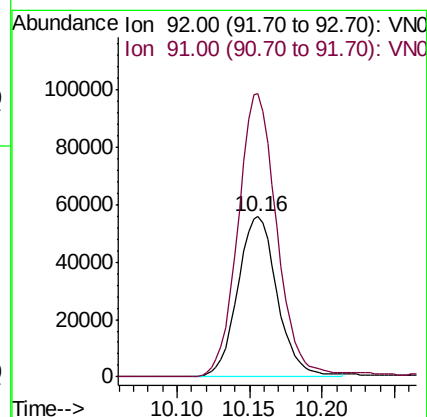
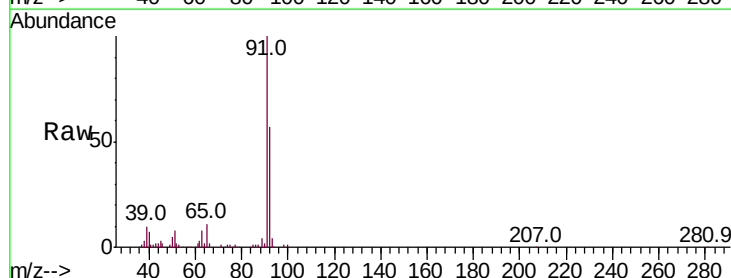
Acq: 8 May 2019 16:34

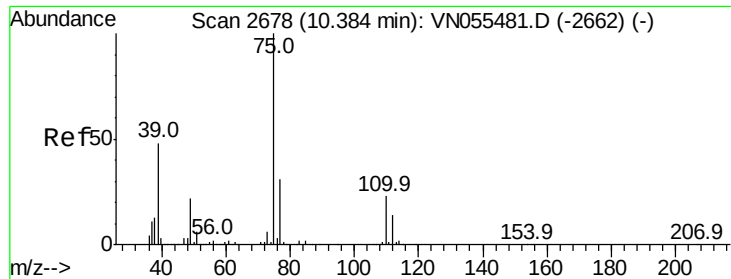
Tgt Ion: 92 Resp: 105671

Ion Ratio Lower Upper

92 100

91 173.3 140.5 210.7





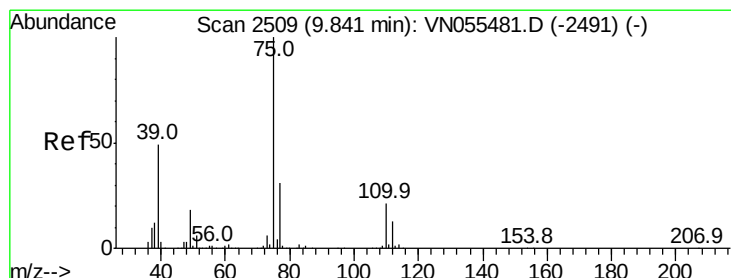
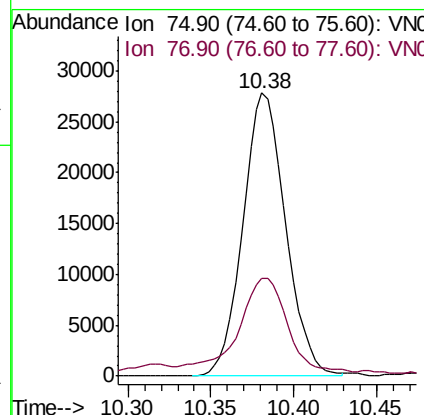
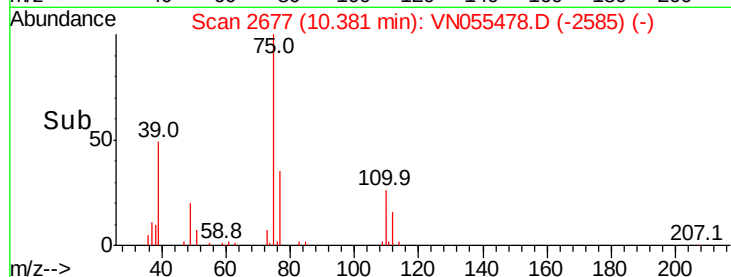
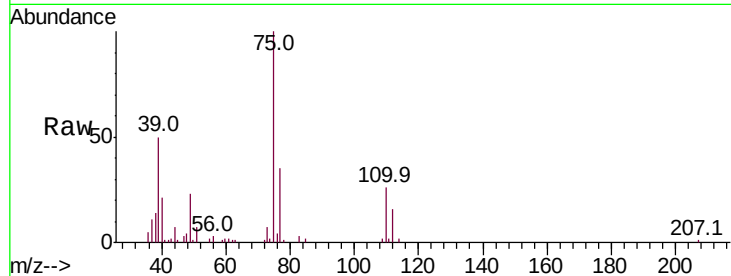
#53
 t-1,3-Dichloropropene
 Concen: 4.746 ug/l
 RT: 10.38 min Scan# 2677
 Delta R.T. -0.00 min
 Lab File: VN055478.D
 Acq: 8 May 2019 16:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion: 75 Resp: 49862
 Ion Ratio Lower Upper
 75 100
 77 32.0 25.1 37.7

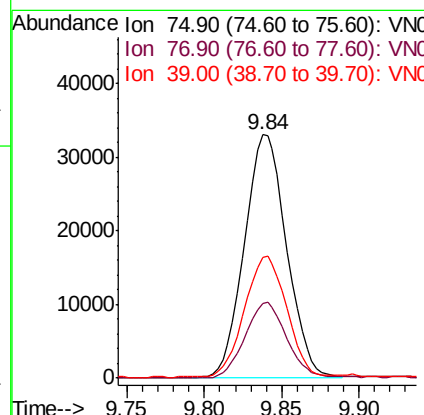
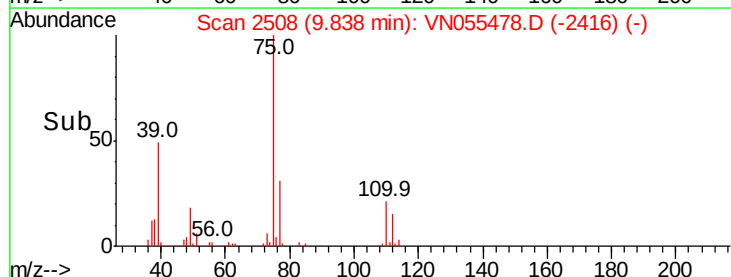
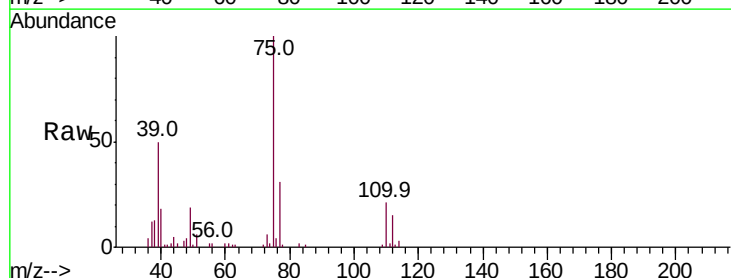
Manual Integrations
 APPROVED

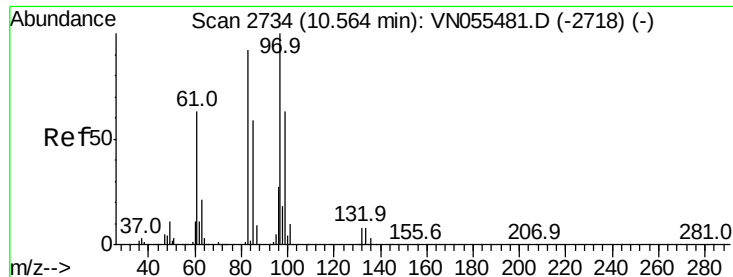
MMDadoda
 5/9/2019 6:32:41 PM



#54
 cis-1,3-Dichloropropene
 Concen: 4.840 ug/l
 RT: 9.84 min Scan# 2508
 Delta R.T. -0.00 min
 Lab File: VN055478.D
 Acq: 8 May 2019 16:34

Tgt Ion: 75 Resp: 62946
 Ion Ratio Lower Upper
 75 100
 77 30.7 24.4 36.6
 39 49.0 39.5 59.3





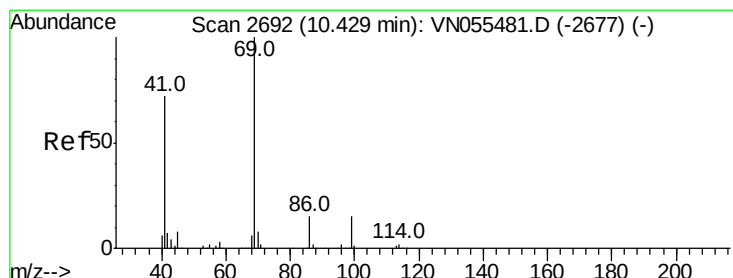
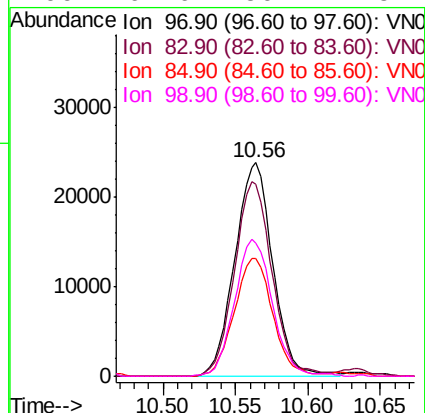
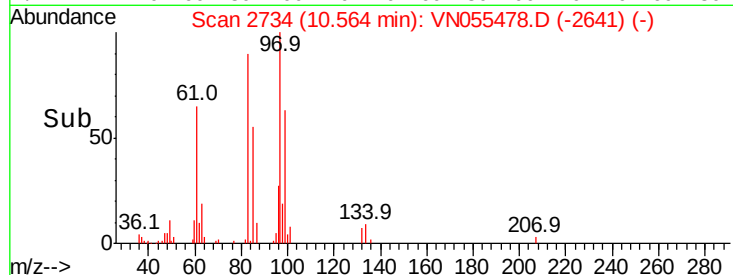
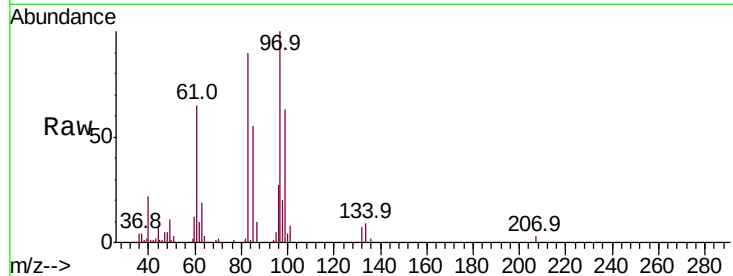
#55
 1,1,2-Trichloroethane
 Concen: 5.647 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN055478.D
 Acq: 8 May 2019 16:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		43388		
83	90.2	73.2	109.8		
85	54.9	47.5	71.3		
99	62.6	50.2	75.2		

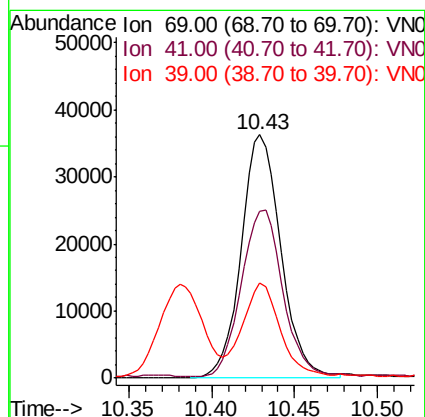
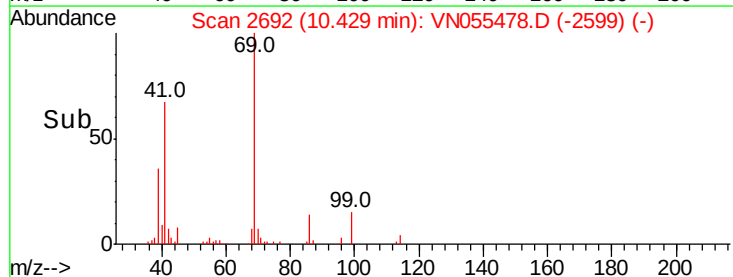
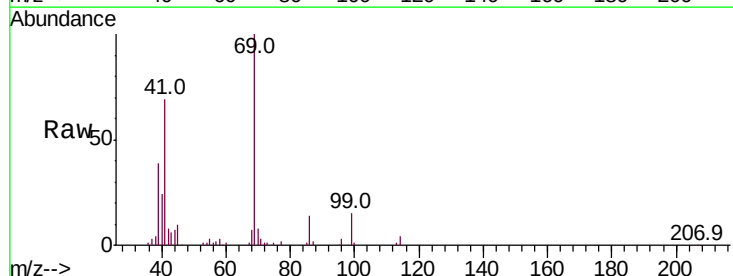
Manual Integrations
 APPROVED

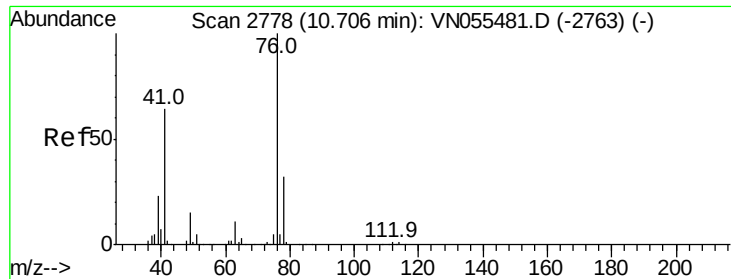
MMDadoda
 5/9/2019 6:32:41 PM



#56
 Ethyl methacrylate
 Concen: 6.147 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN055478.D
 Acq: 8 May 2019 16:34

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		60424		
41	71.8	56.2	84.2		
39	35.3	27.8	41.6		





#57

1,3-Dichloropropane

Concen: 5.496 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

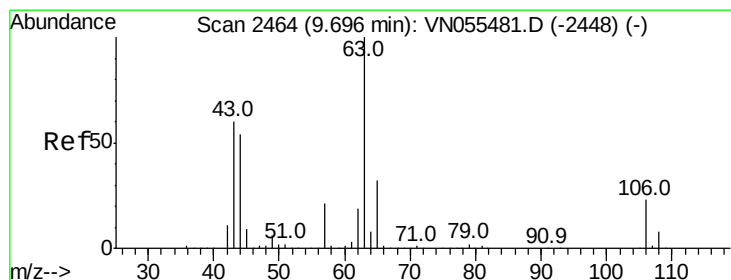
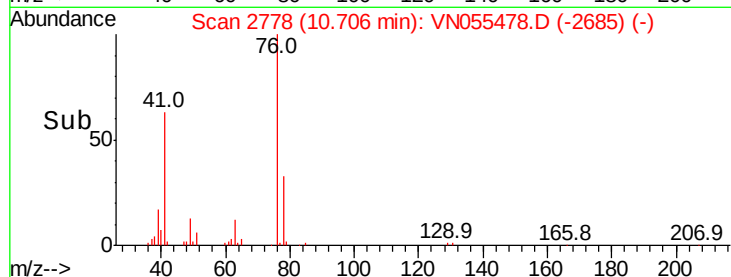
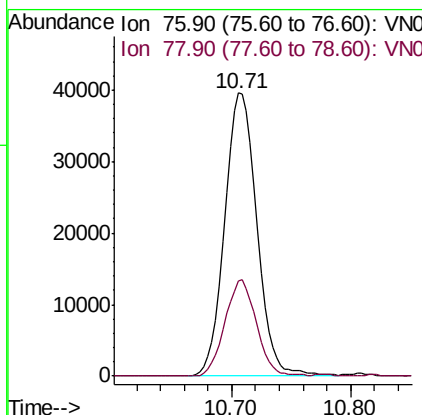
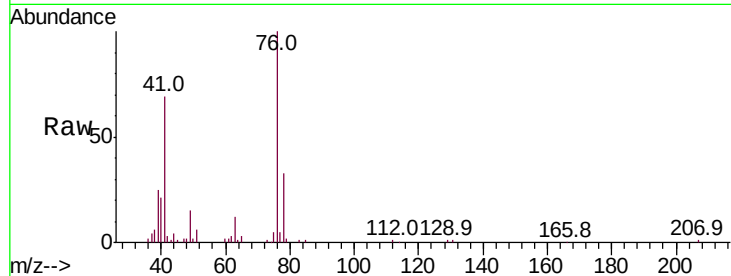
Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion: 76 Resp: 74366

Ion	Ratio	Lower	Upper
76	100		
78	33.2	25.8	38.6

Manual Integrations
APPROVED

MMDadoda
5/9/2019 6:32:41 PM



#58

2-Chloroethyl Vinyl ether

Concen: 30.408 ug/l

RT: 9.70 min Scan# 2464

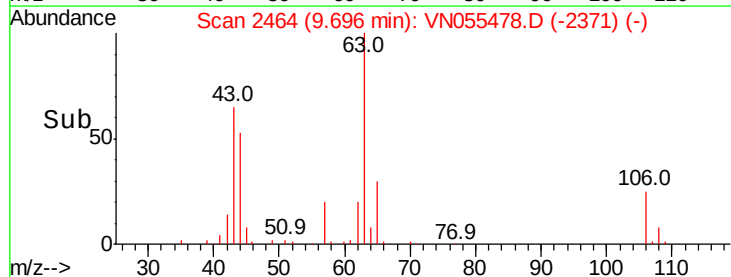
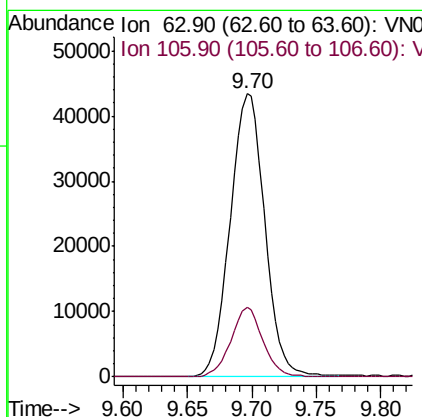
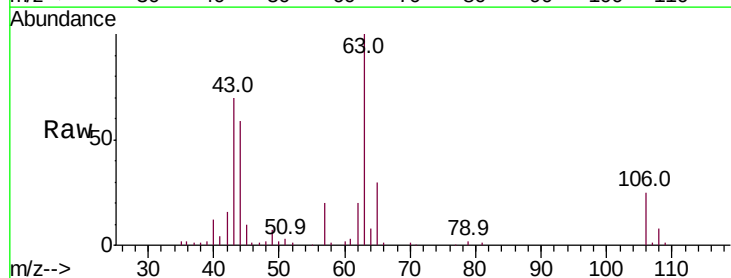
Delta R.T. 0.00 min

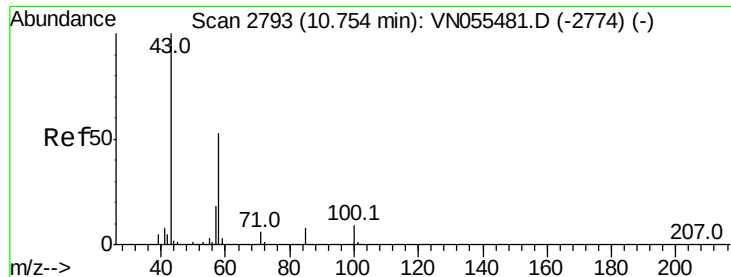
Lab File: VN055478.D

Acq: 8 May 2019 16:34

Tgt Ion: 63 Resp: 81106

Ion	Ratio	Lower	Upper
63	100		
106	22.6	18.6	27.8





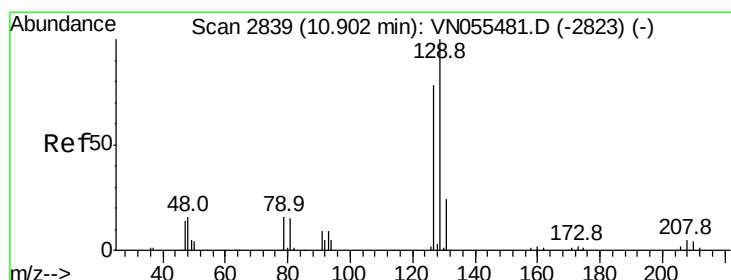
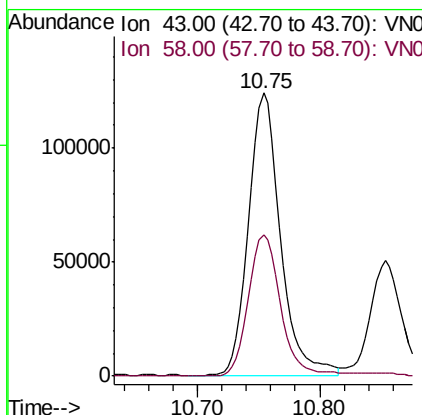
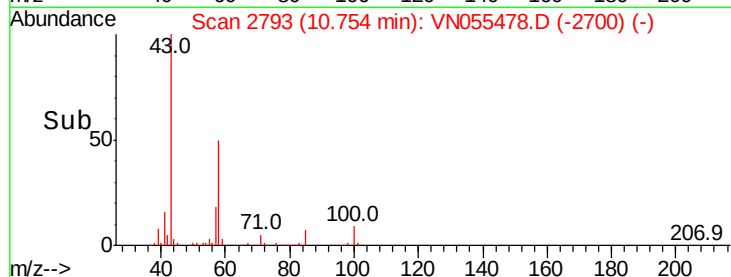
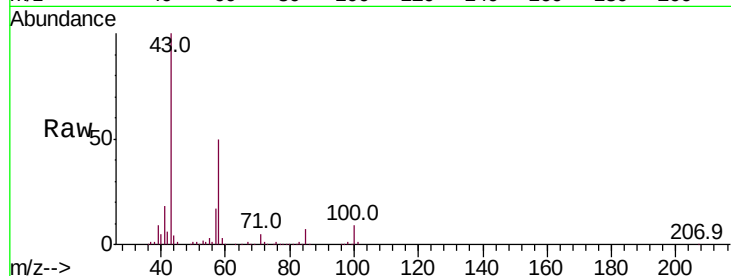
#59
2-Hexanone
Concen: 37.703 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN055478.D
Acq: 8 May 2019 16:34

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion: 43 Resp: 222536
Ion Ratio Lower Upper
43 100
58 51.1 26.4 79.0

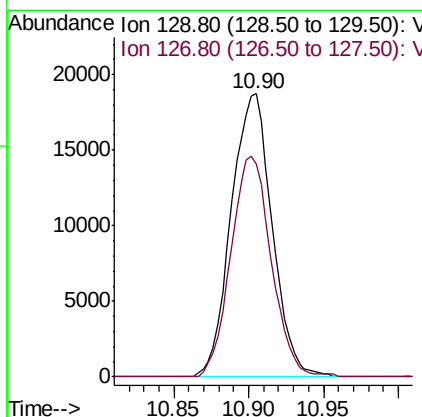
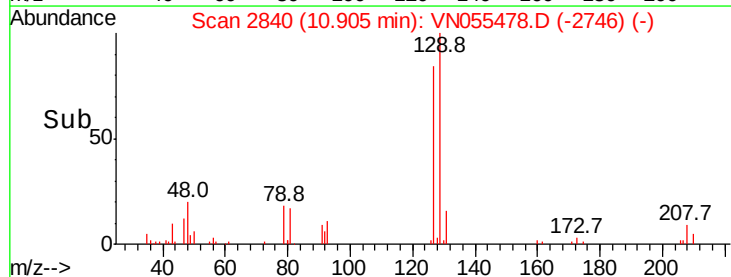
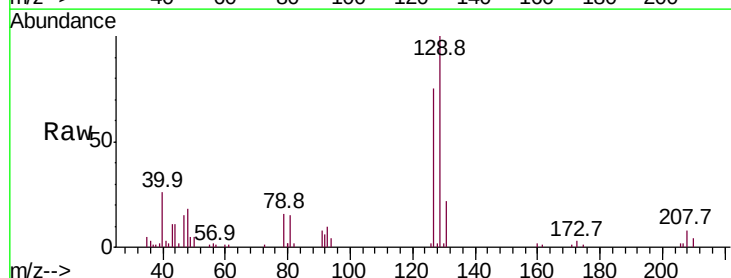
Manual Integrations
APPROVED

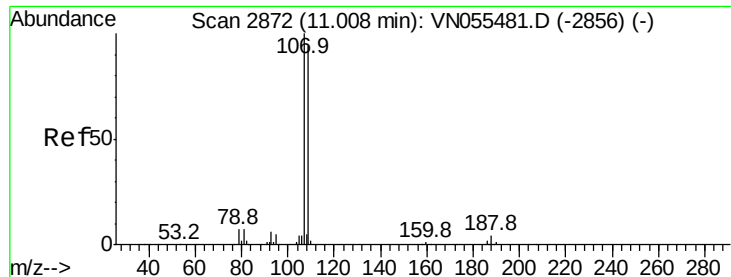
MMDadoda
5/9/2019 6:32:41 PM



#60
Dibromochloromethane
Concen: 4.647 ug/l
RT: 10.90 min Scan# 2840
Delta R.T. 0.00 min
Lab File: VN055478.D
Acq: 8 May 2019 16:34

Tgt Ion: 129 Resp: 35698
Ion Ratio Lower Upper
129 100
127 76.5 38.6 116.0





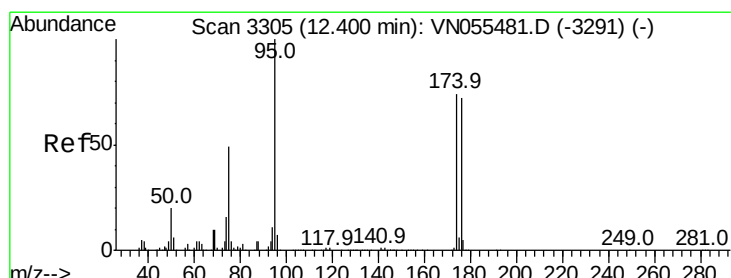
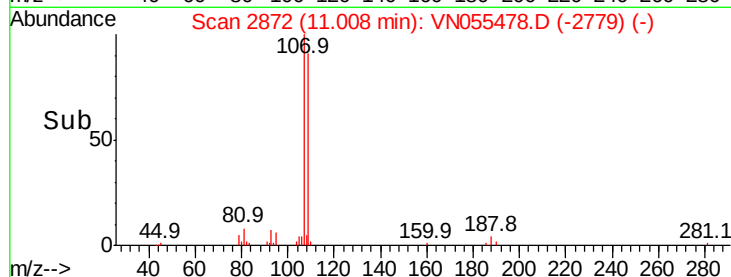
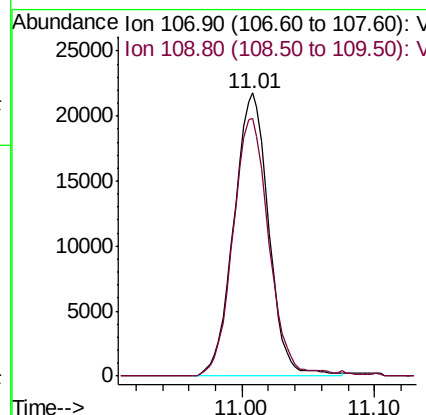
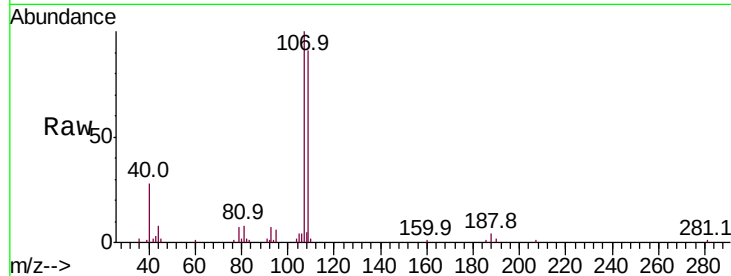
#61
 1,2-Dibromoethane
 Concen: 5.533 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN055478.D
 Acq: 8 May 2019 16:34

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC005

Tot Ion:107 Resp: 39672
 Ion Ratio Lower Upper
 107 100
 109 94.4 74.2 111.4

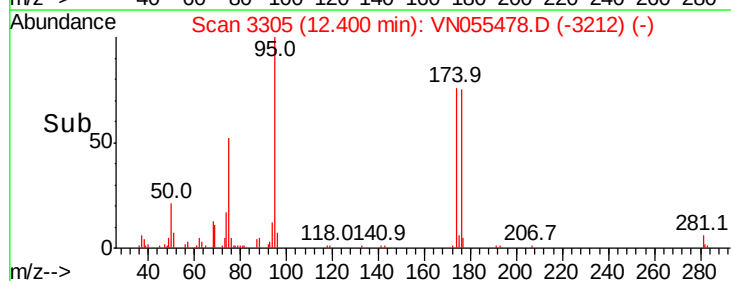
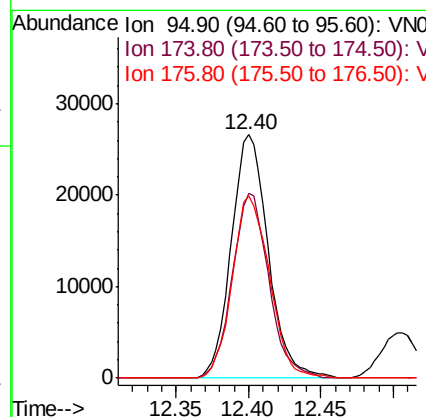
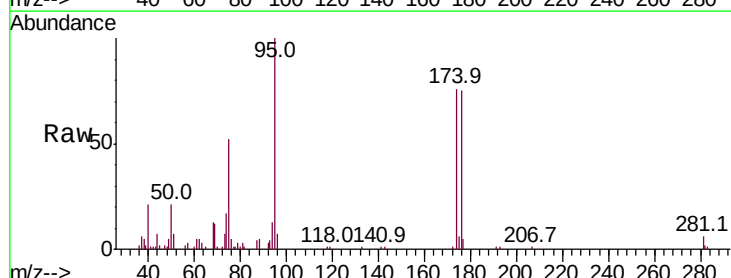
Manual Integrations
 APPROVED

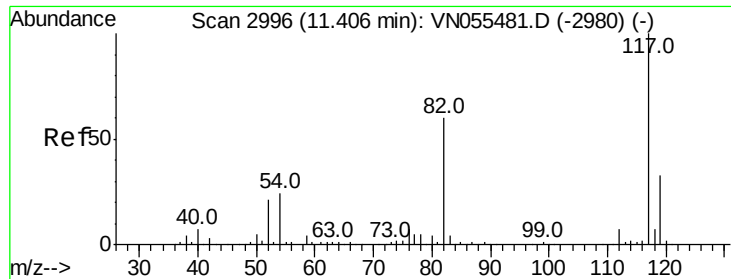
MMDadoda
 5/9/2019 6:32:41 PM



#62
 4-Bromofluorobenzene
 Concen: 4.988 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN055478.D
 Acq: 8 May 2019 16:34

Tgt Ion: 95 Resp: 47068
 Ion Ratio Lower Upper
 95 100
 174 75.2 0.0 152.2
 176 75.5 0.0 147.8





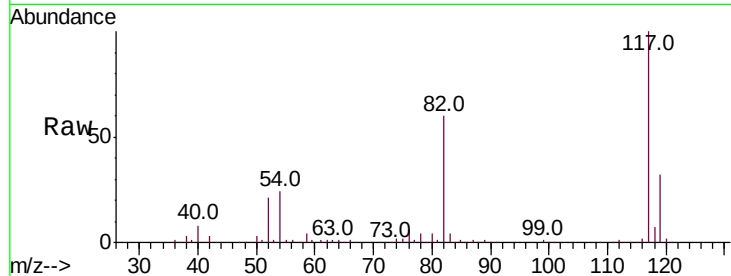
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055478.D
Acq: 8 May 2019 16:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

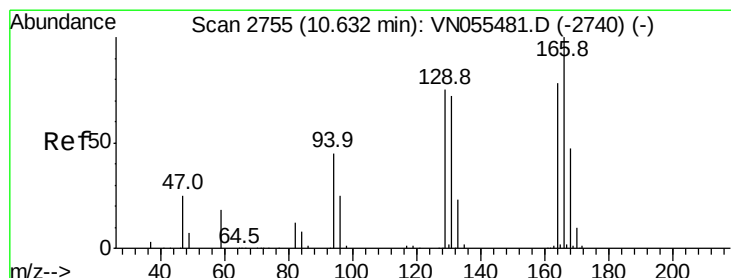
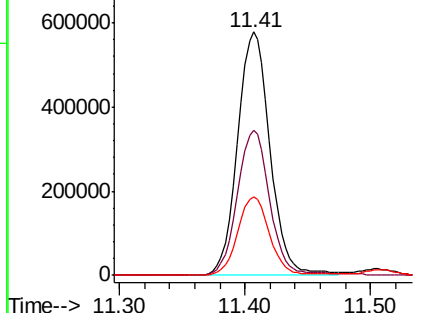
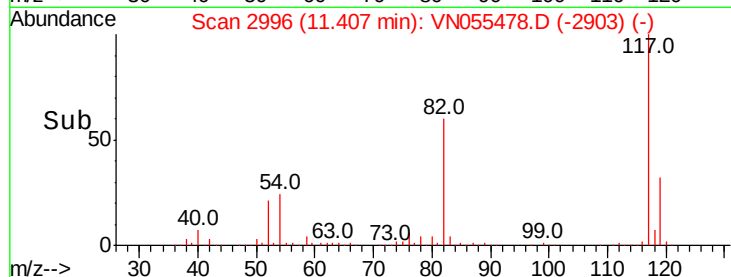
Tot Ion:117 Resp: 1040536
Ion Ratio Lower Upper
117 100
82 59.8 48.0 72.0
119 32.4 26.0 39.0

Manual Integrations
APPROVED

MMDadoda
5/9/2019 6:32:41 PM

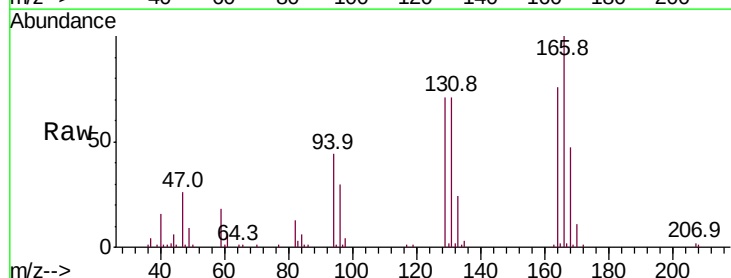


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

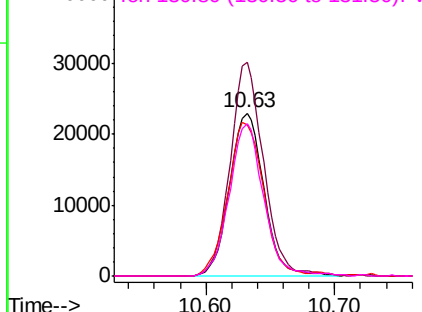
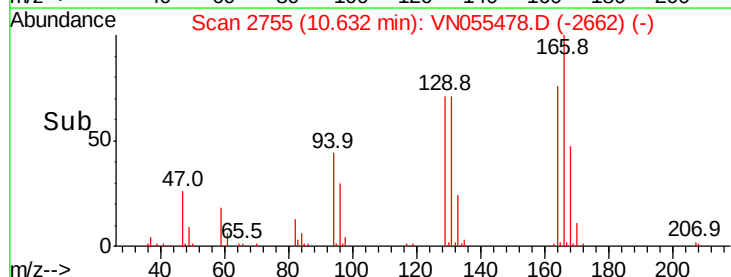


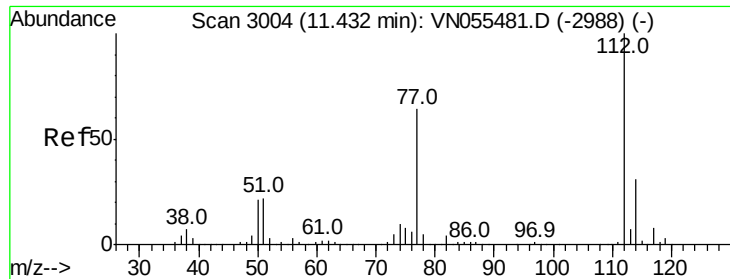
#64
Tetrachloroethene
Concen: 4.976 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN055478.D
Acq: 8 May 2019 16:34

Tgt Ion:164 Resp: 42591
Ion Ratio Lower Upper
164 100
166 131.3 102.6 153.8
129 92.7 77.0 115.6
131 93.5 73.7 110.5



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





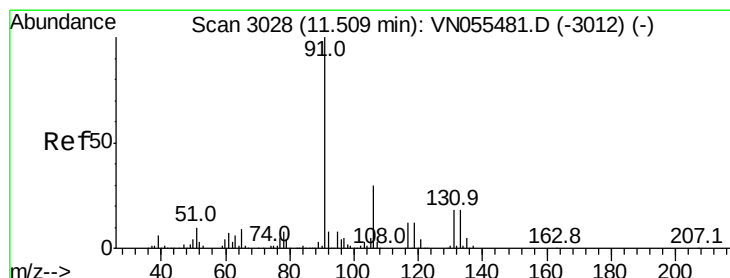
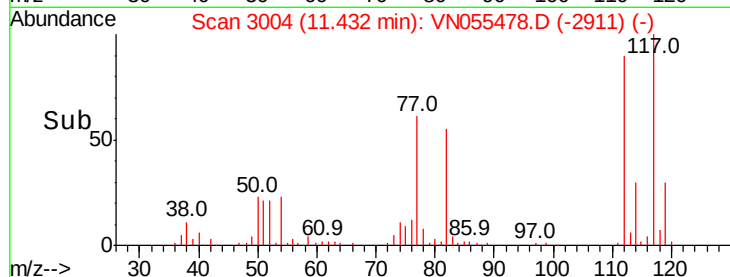
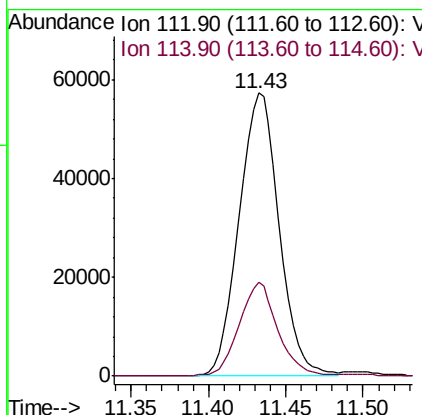
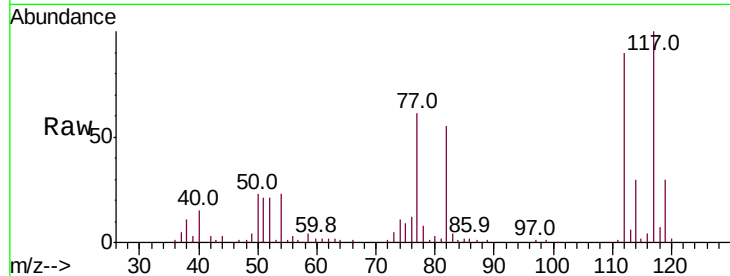
#65
Chlorobenzene
Concen: 5.021 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN055478.D
Acq: 8 May 2019 16:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion:112 Resp: 103468
Ion Ratio Lower Upper
112 100
114 33.1 25.0 37.4

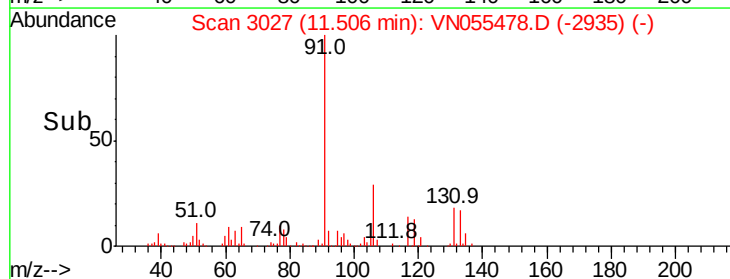
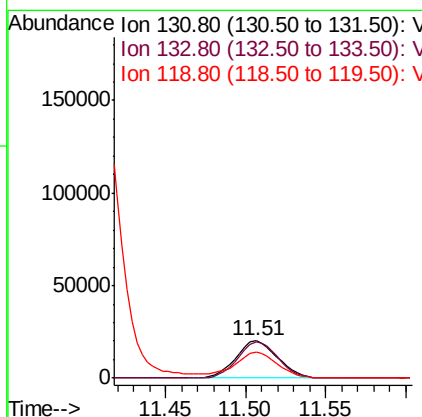
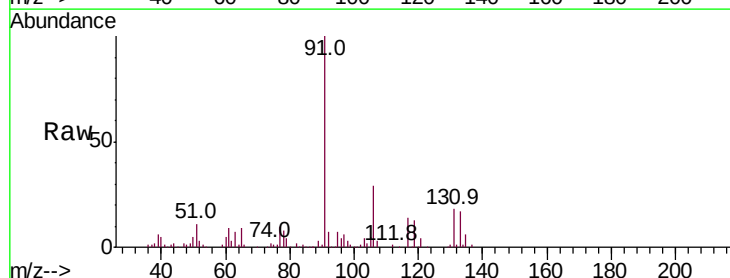
Manual Integrations
APPROVED

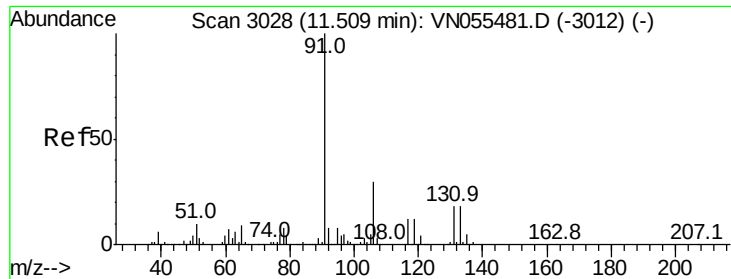
MMDadoda
5/9/2019 6:32:41 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 4.511 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN055478.D
Acq: 8 May 2019 16:34

Tgt Ion:131 Resp: 35729
Ion Ratio Lower Upper
131 100
133 93.2 47.4 142.2
119 70.6 34.1 102.2





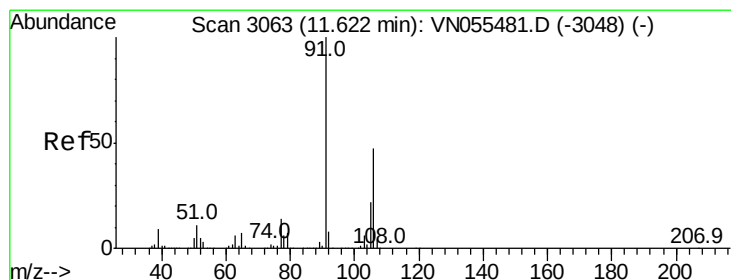
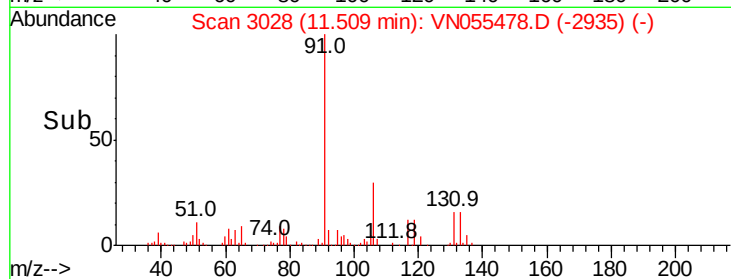
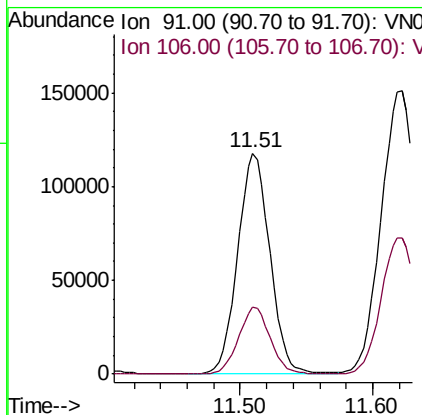
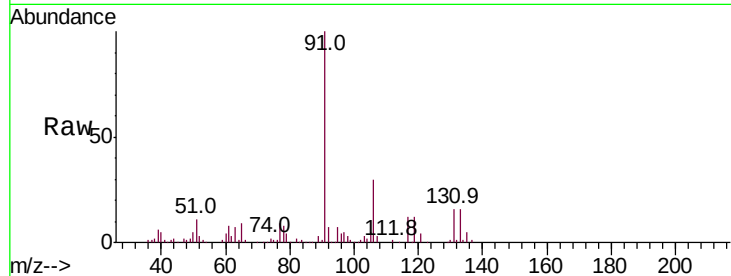
#67
Ethyl Benzene
Concen: 5.327 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN055478.D
Acq: 8 May 2019 16:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 91 Resp: 199130
Ion Ratio Lower Upper
91 100
106 30.1 23.8 35.6

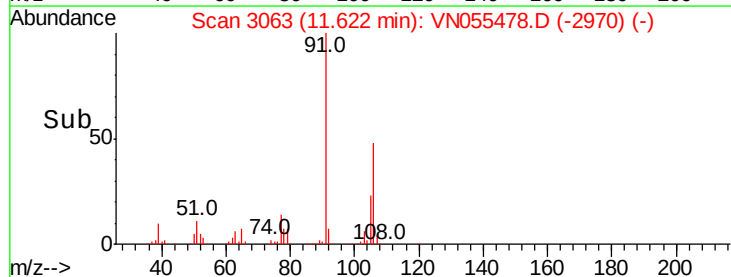
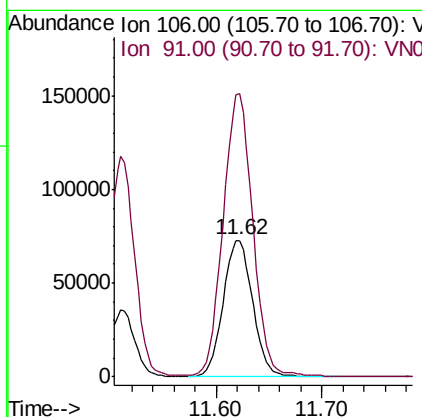
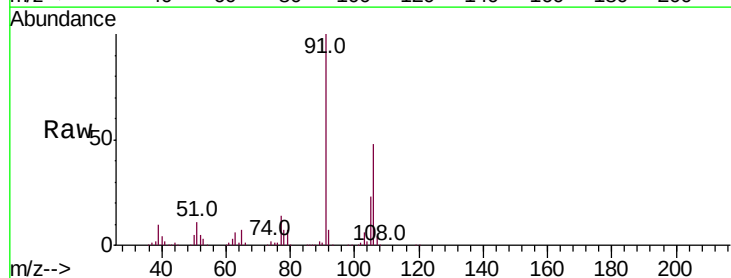
Manual Integrations
APPROVED

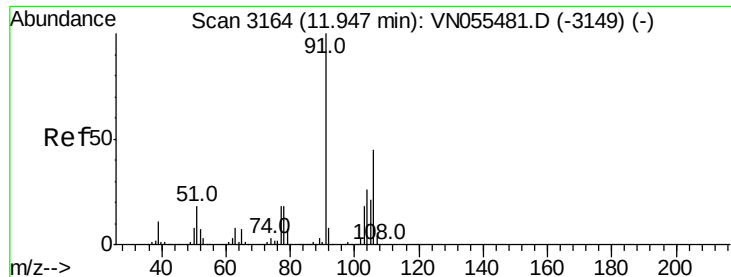
MMDadoda
5/9/2019 6:32:41 PM



#68
m/p-Xylenes
Concen: 10.579 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN055478.D
Acq: 8 May 2019 16:34

Tgt Ion: 106 Resp: 141496
Ion Ratio Lower Upper
106 100
91 207.9 169.2 253.8





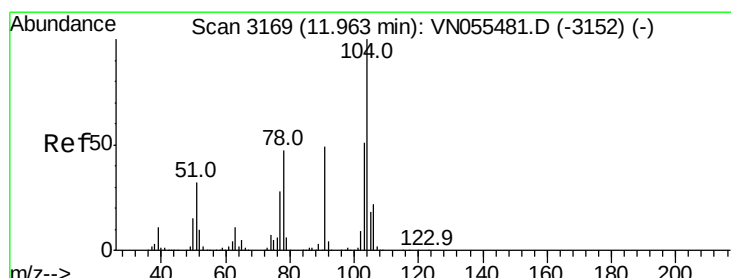
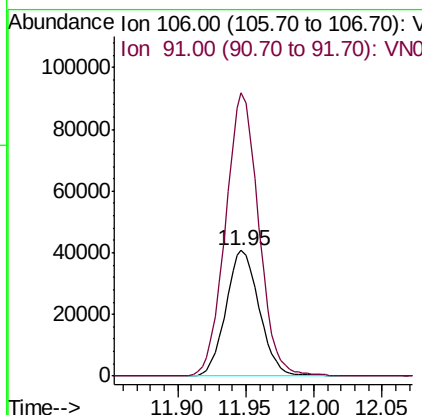
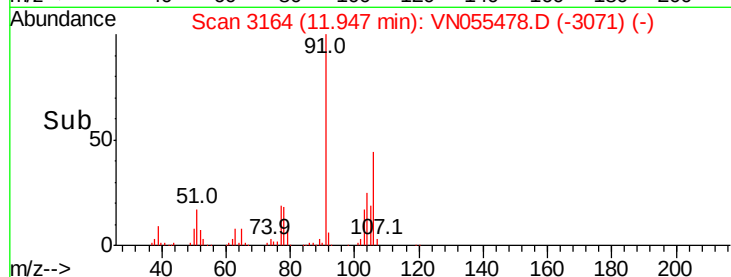
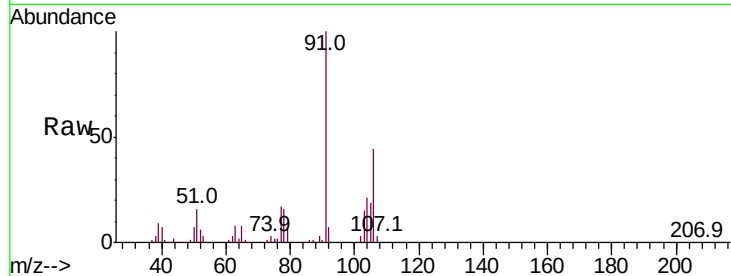
#69
o-Xylene
Concen: 5.230 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN055478.D
Acq: 8 May 2019 16:34

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion:106 Resp: 69353
Ion Ratio Lower Upper
106 100
91 224.1 111.3 333.8

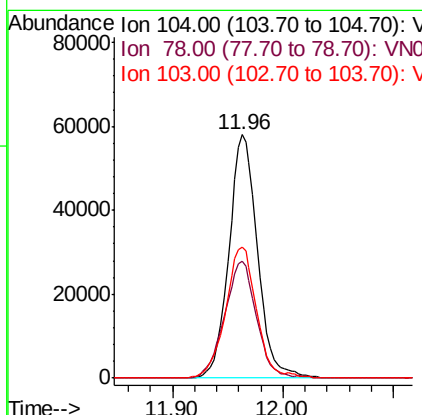
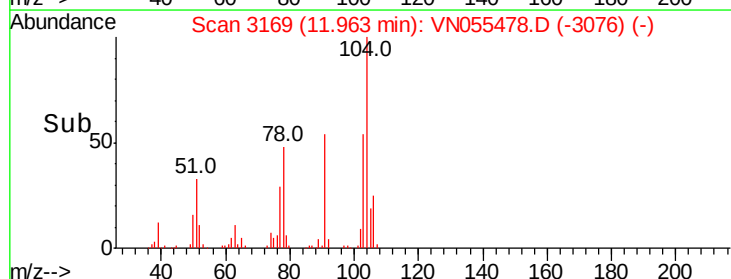
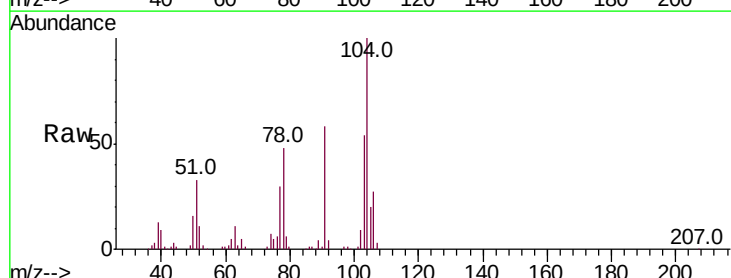
Manual Integrations
APPROVED

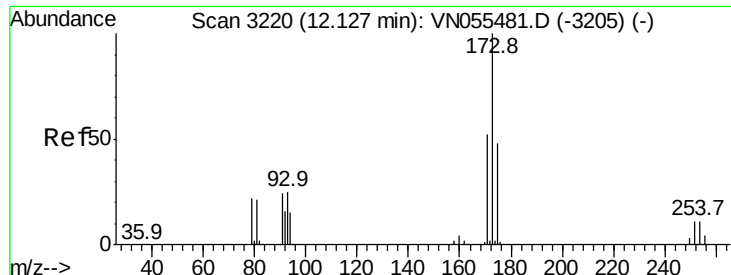
MMDadoda
5/9/2019 6:32:41 PM



#70
Styrene
Concen: 5.094 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN055478.D
Acq: 8 May 2019 16:34

Tgt Ion:104 Resp: 104255
Ion Ratio Lower Upper
104 100
78 53.5 41.6 62.4
103 58.5 44.4 66.6





#71

Bromoform

Concen: 4.639 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion:173 Resp: 20978

Ion Ratio Lower Upper

173 100

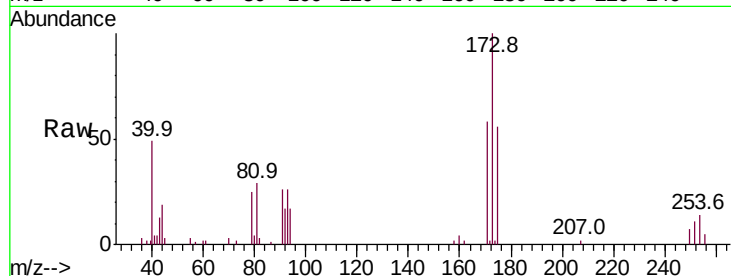
175 51.4 24.1 72.4

254 0.0 0.1 0.1#

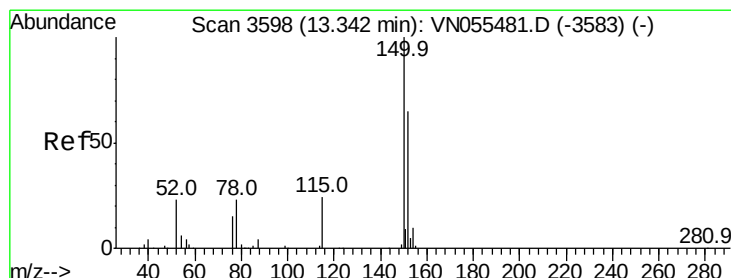
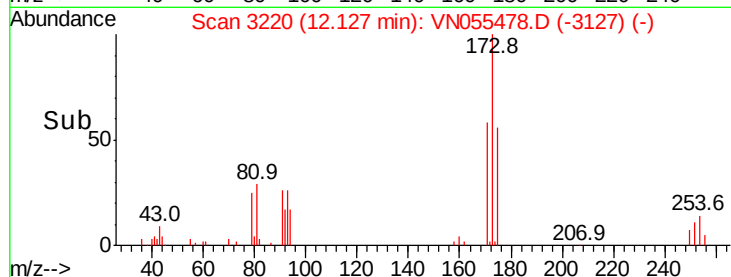
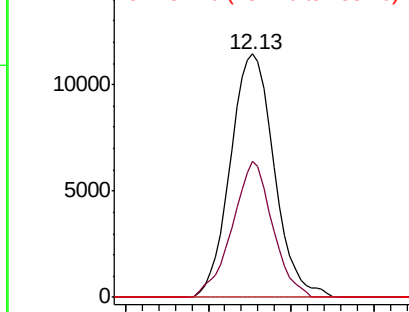
Manual Integrations
APPROVED

MMDadoda

5/9/2019 6:32:41 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: VN055478.D

Acq: 8 May 2019 16:34

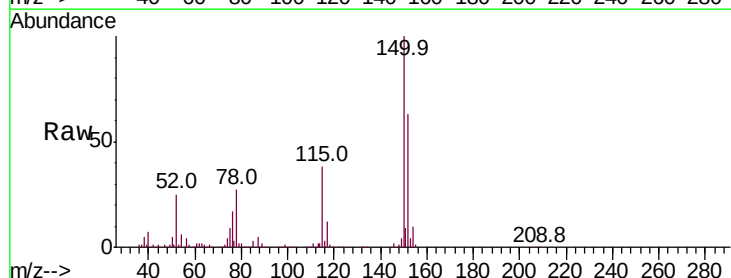
Tgt Ion:152 Resp: 353774

Ion Ratio Lower Upper

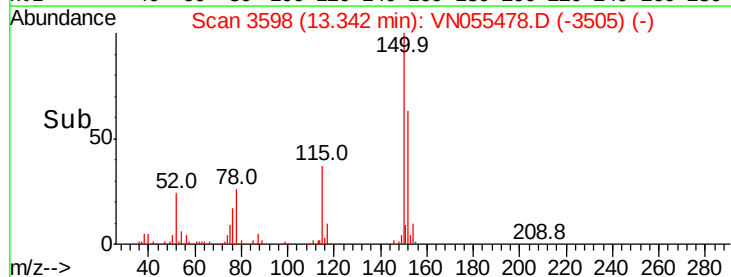
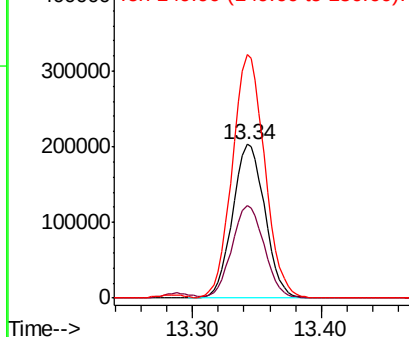
152 100

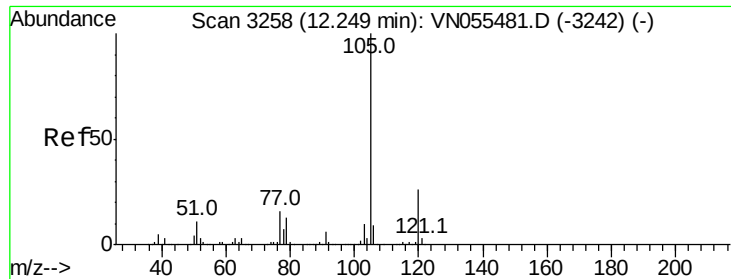
115 60.4 30.1 90.5

150 158.6 0.0 355.0



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: 5.065 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 179905

Ion Ratio Lower Upper

105 100

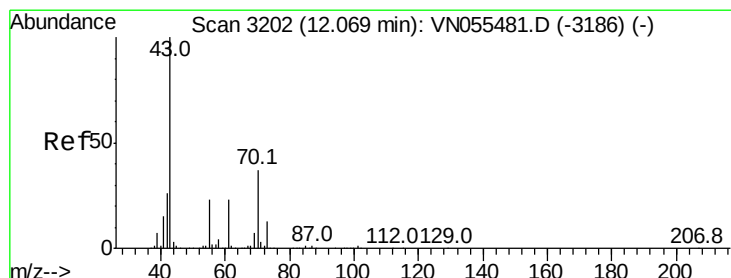
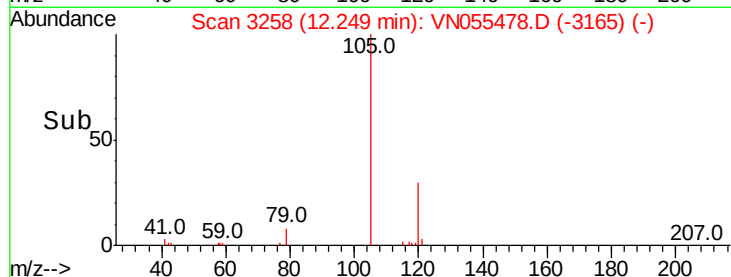
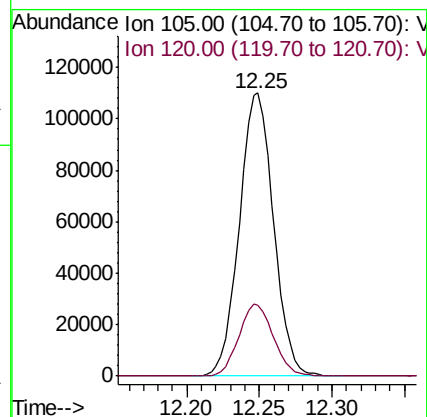
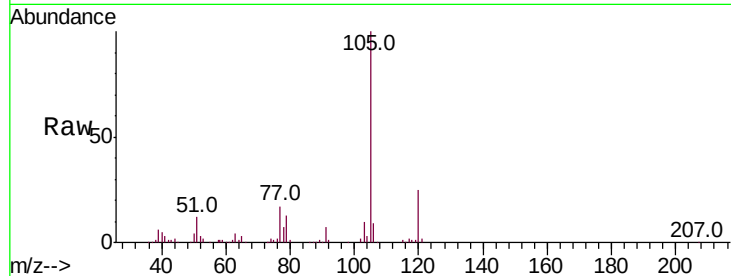
120 25.9 13.0 39.0

Manual Integrations

APPROVED

MMDadoda

5/9/2019 6:32:41 PM



#74

N-ethyl acetate

Concen: 6.610 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

Tgt Ion: 43 Resp: 64798

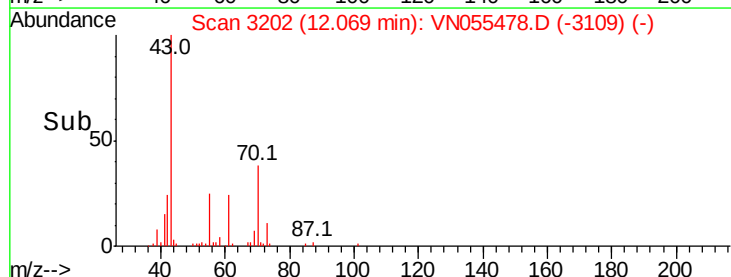
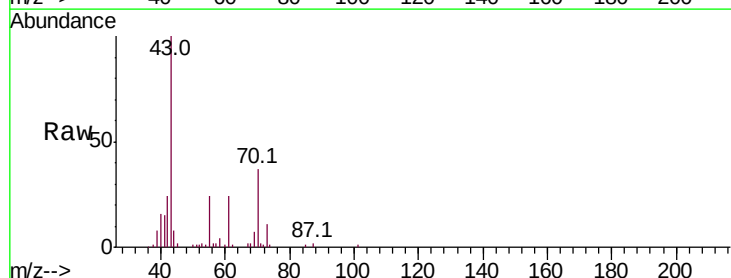
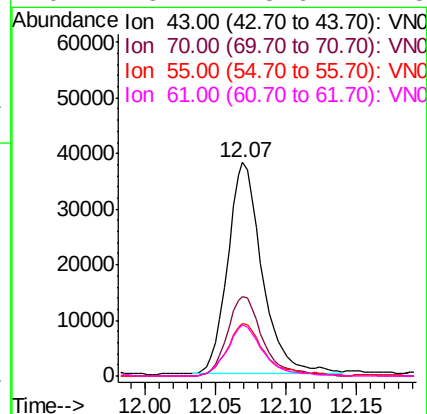
Ion Ratio Lower Upper

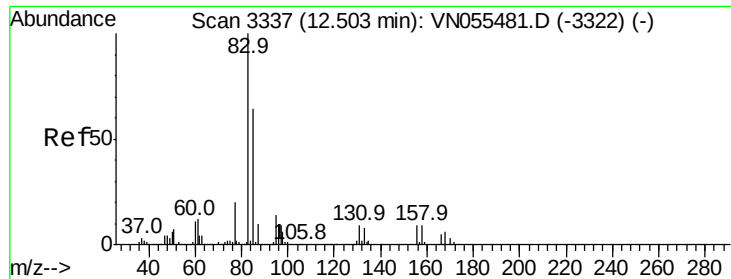
43 100

70 38.6 30.7 46.1

55 26.9 19.3 28.9

61 25.1 18.6 27.8





#75

1,1,2,2-Tetrachloroethane

Concen: 6.501 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

Instrument :

MSVOA_N

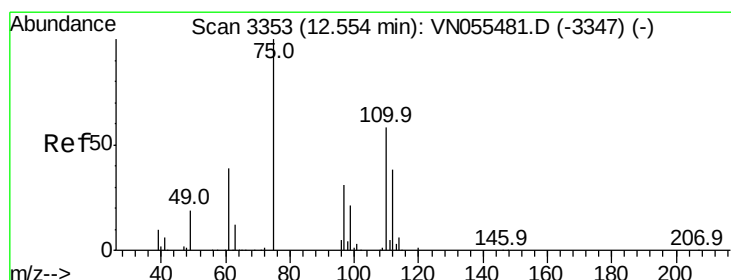
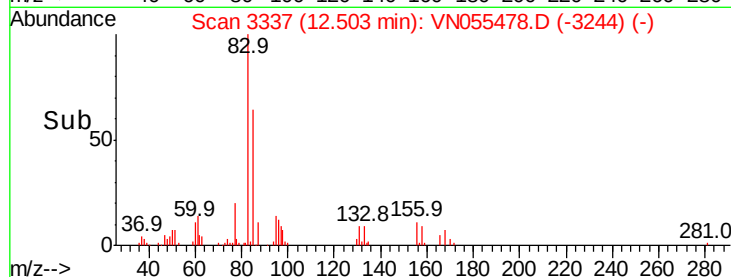
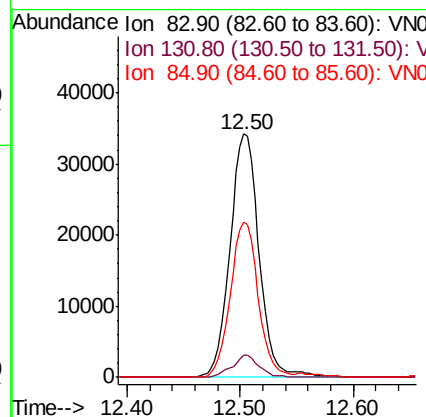
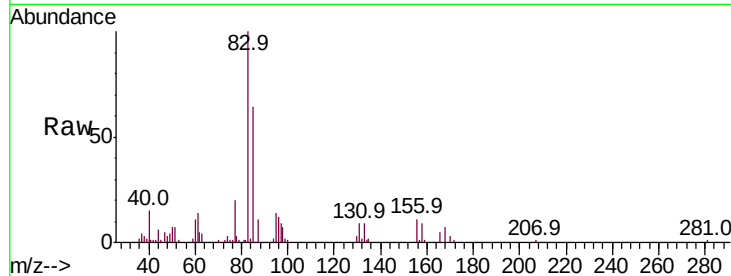
ClientSampled :

VSTDIC005

Tot Ion:	83	Resp:	61118
Ion Ratio	Lower	Upper	
83	100		
131	8.3	4.5	13.5
85	61.1	32.0	96.0

Manual Integrations
APPROVED

MMDadoda
5/9/2019 6:32:41 PM



#76

1,2,3-Trichloropropane

Concen: 6.435 ug/l m

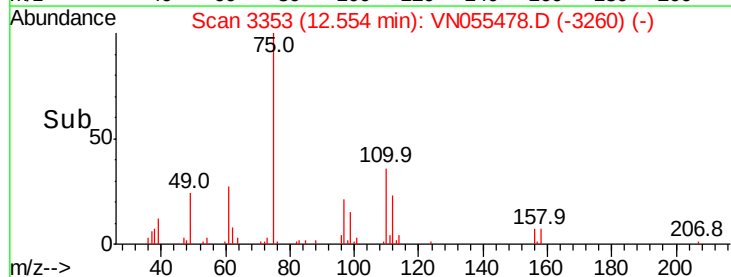
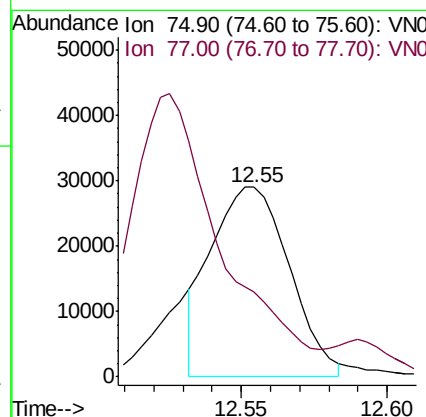
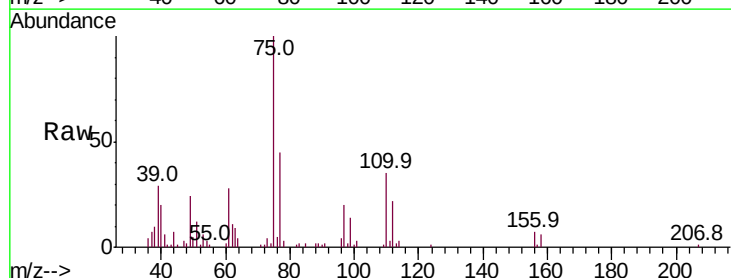
RT: 12.55 min Scan# 3353

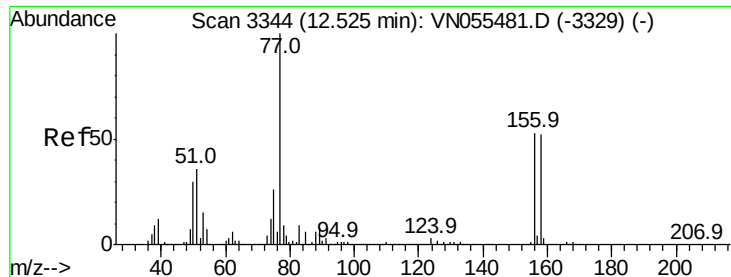
Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

Tgt Ion:	75	Resp:	54368
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 4.891 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

Instrument :

MSVOA_N

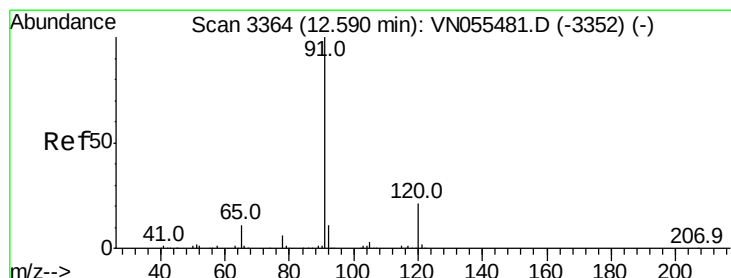
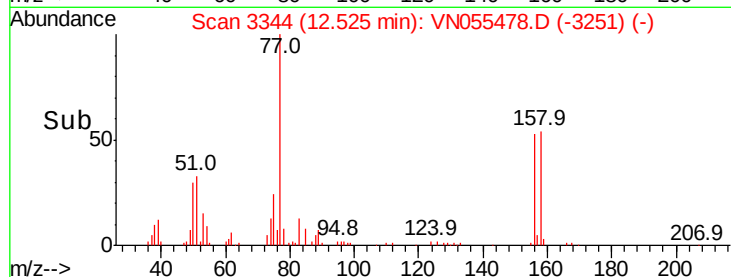
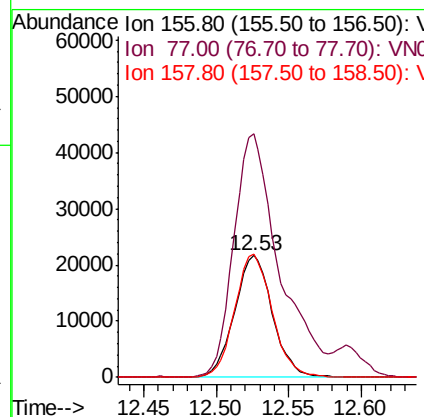
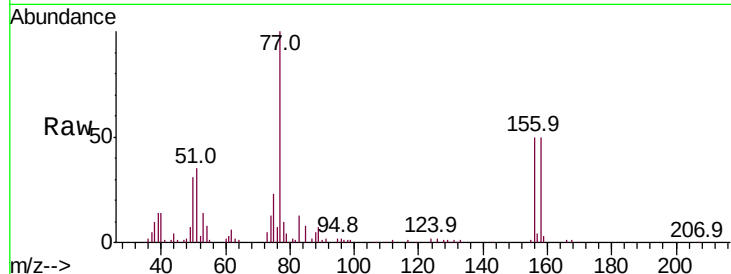
ClientSampleId :

VSTDIC005

Tot Ion:	156	Resp:	39292
Ion	Ratio	Lower	Upper
156	100		
77	240.8	115.4	346.2
158	99.9	48.7	146.1

Manual Integrations
APPROVED

MMDadoda
5/9/2019 6:32:41 PM



#78

n-propylbenzene

Concen: 5.279 ug/l

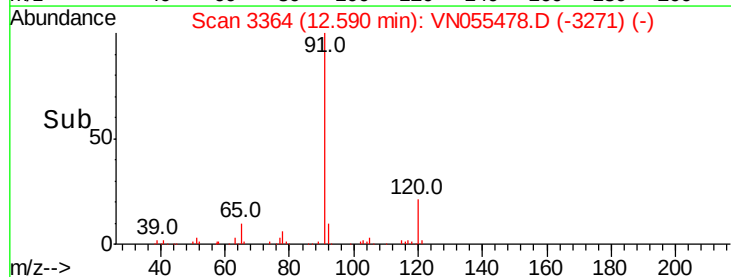
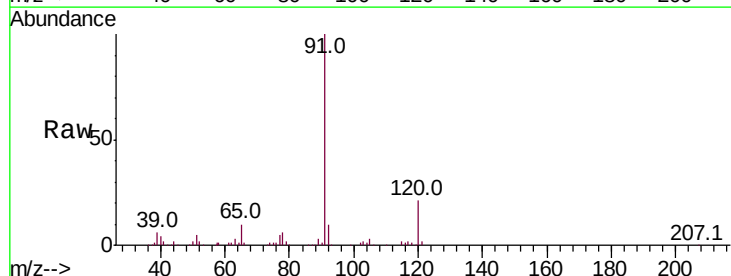
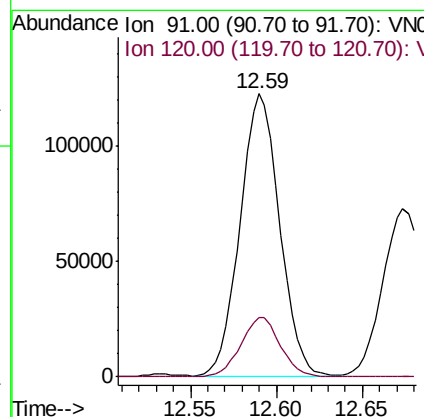
RT: 12.59 min Scan# 3364

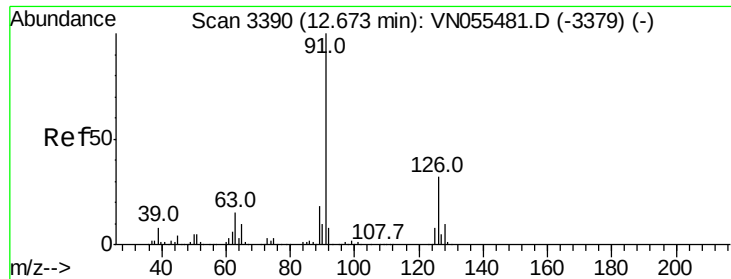
Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

Tgt Ion:	91	Resp:	194101
Ion	Ratio	Lower	Upper
91	100		
120	21.2	10.8	32.3





#79

2-Chlorotoluene

Concen: 5.305 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 124763

Ion Ratio Lower Upper

91 100

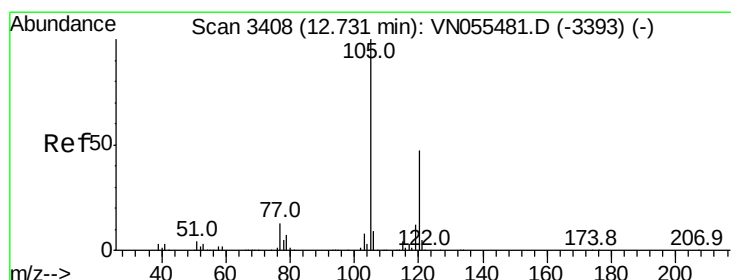
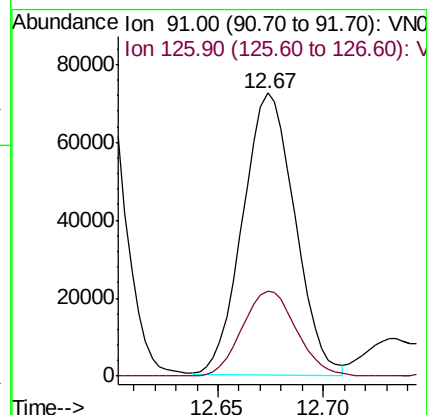
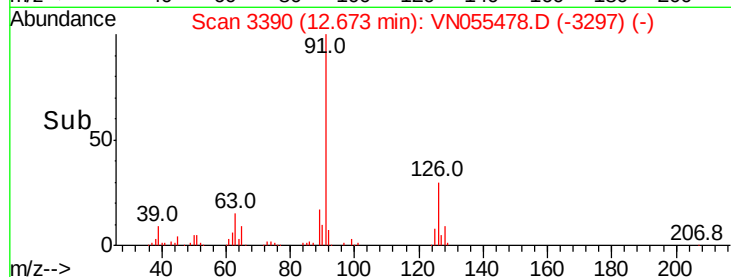
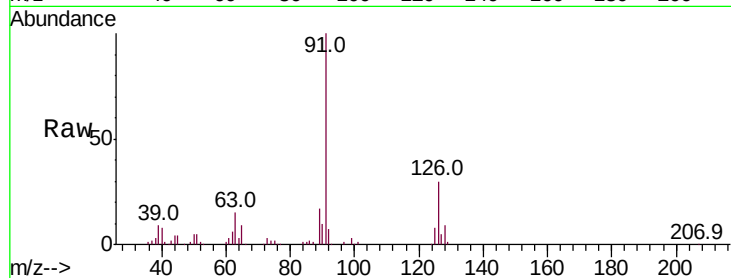
126 31.3 16.0 47.9

Manual Integrations

APPROVED

MMDadoda

5/9/2019 6:32:41 PM



#80

1,3,5-Trimethylbenzene

Concen: 5.337 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055478.D

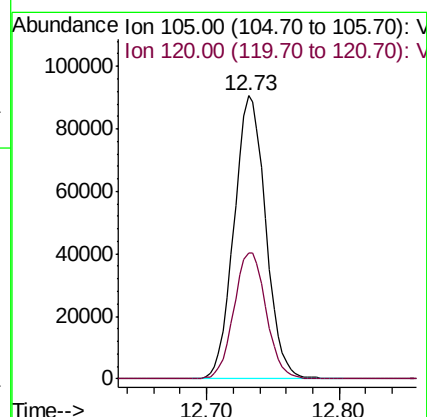
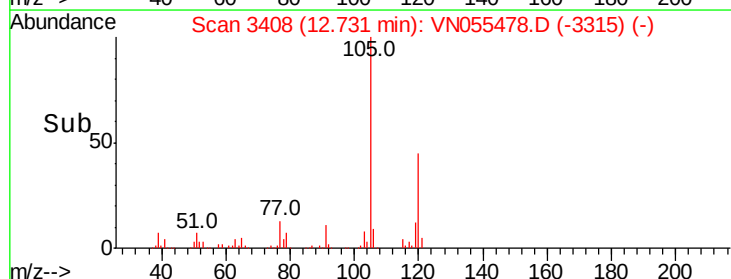
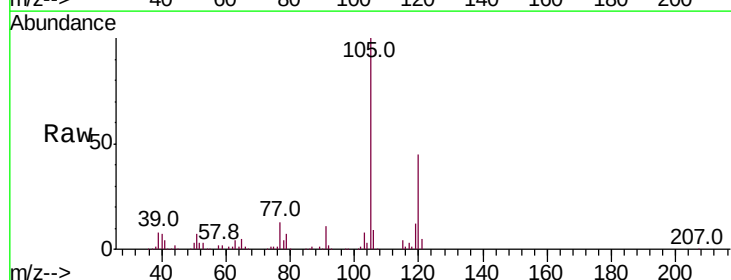
Acq: 8 May 2019 16:34

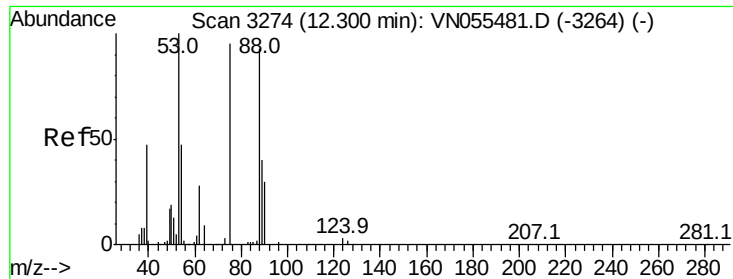
Tgt Ion: 105 Resp: 150019

Ion Ratio Lower Upper

105 100

120 45.3 23.4 70.0





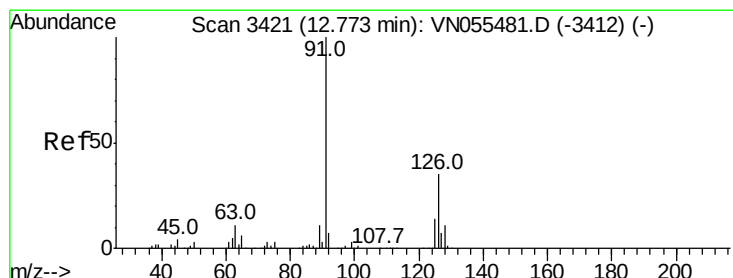
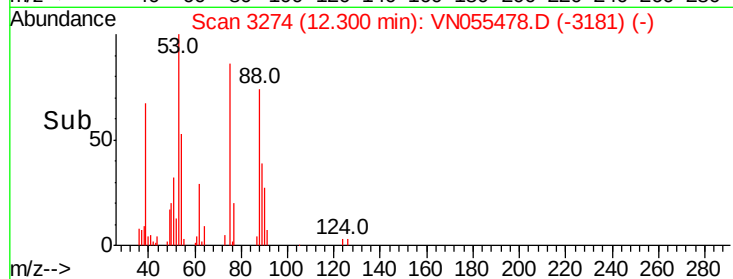
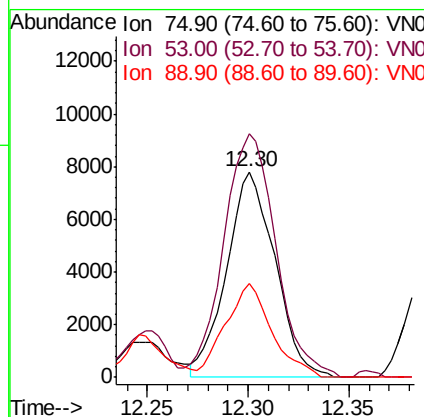
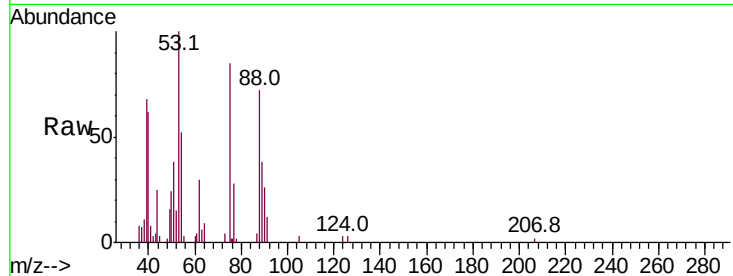
#81
 trans-1,4-Dichloro-2-butene
 Concen: 6.482 ug/l
 RT: 12.30 min Scan# 3274
 Delta R.T. 0.00 min
 Lab File: VN055478.D
 Acq: 8 May 2019 16:34

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
53	127.6	86.5	129.7
89	43.4	35.7	53.5

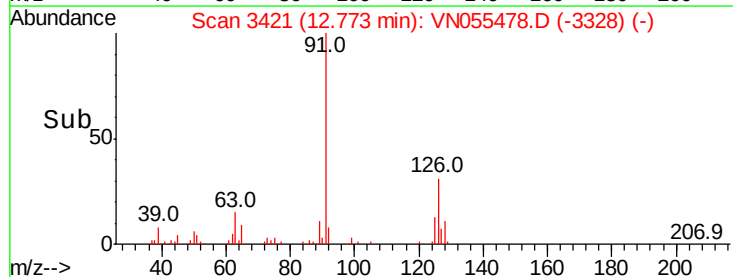
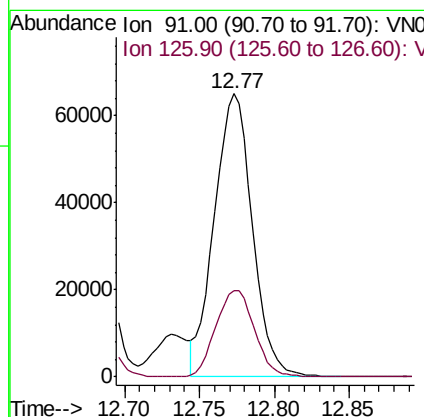
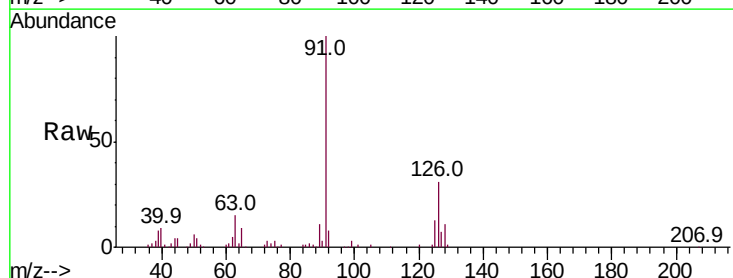
Manual Integrations
 APPROVED

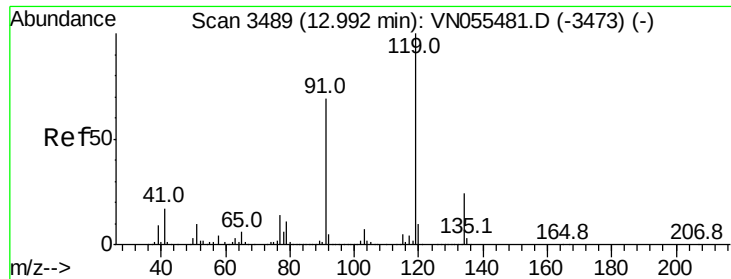
MMDadoda
 5/9/2019 6:32:41 PM



#82
 4-Chlorotoluene
 Concen: 5.376 ug/l
 RT: 12.77 min Scan# 3421
 Delta R.T. 0.00 min
 Lab File: VN055478.D
 Acq: 8 May 2019 16:34

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.1	15.7	47.0





#83

tert-Butylbenzene

Concen: 5.234 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

Instrument :

MSVOA_N

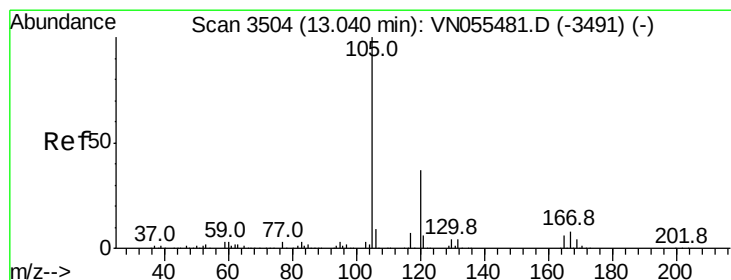
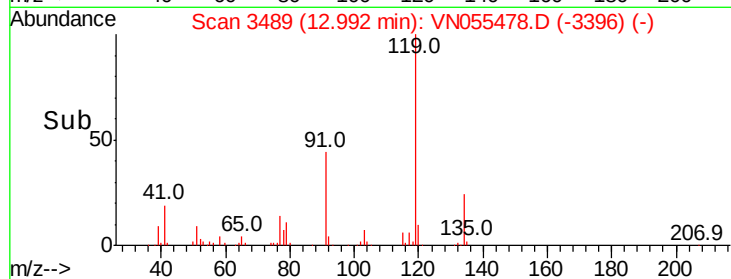
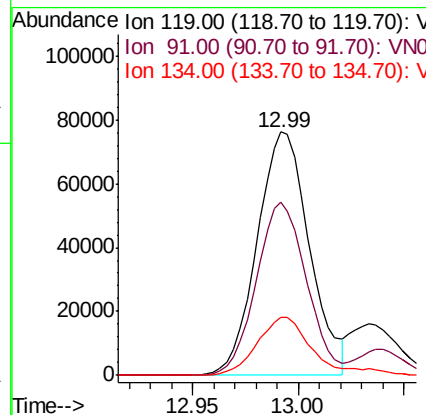
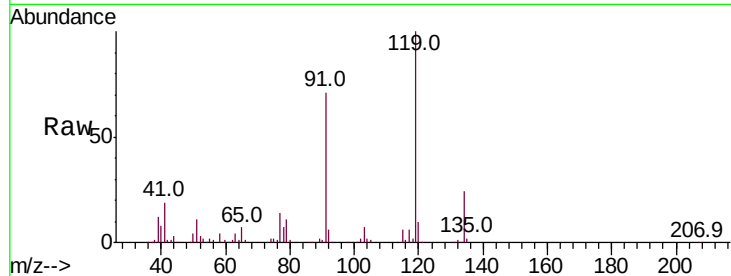
ClientSampled :

VSTDIC005

Tot Ion:	119	Resp:	131453
Ion Ratio	Lower	Upper	
119	100		
91	68.0	33.8	101.3
134	25.5	12.5	37.5

Manual Integrations
APPROVED

MMDadoda
5/9/2019 6:32:41 PM



#84

1,2,4-Trimethylbenzene

Concen: 5.123 ug/l

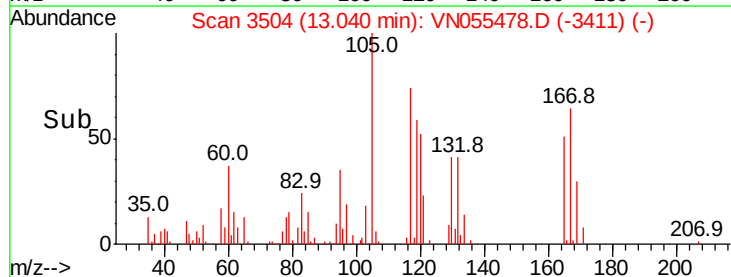
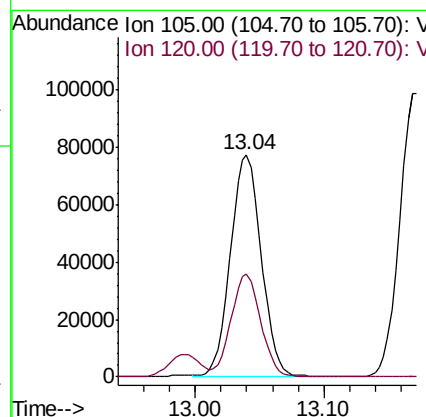
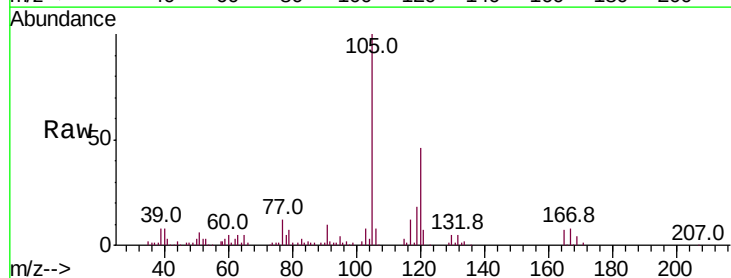
RT: 13.04 min Scan# 3504

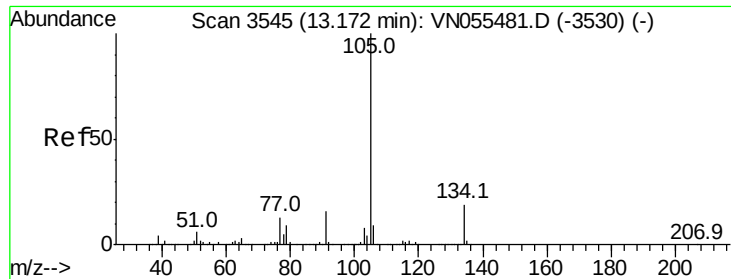
Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

Tgt Ion:	105	Resp:	128755
Ion Ratio	Lower	Upper	
105	100		
120	44.5	22.1	66.5





#85

sec-Butylbenzene

Concen: 5.469 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion:105 Resp: 167649

Ion Ratio Lower Upper

105 100

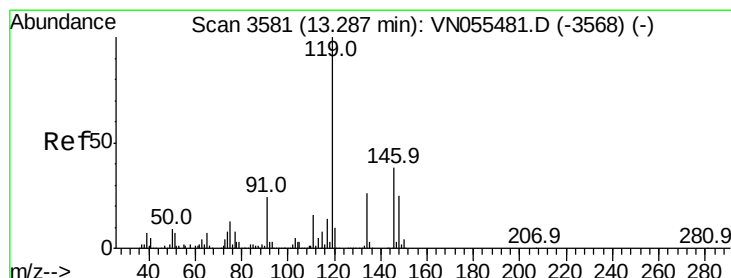
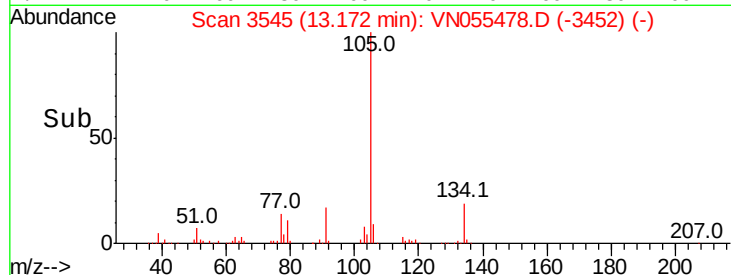
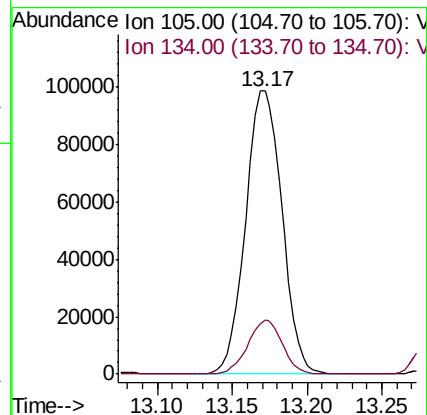
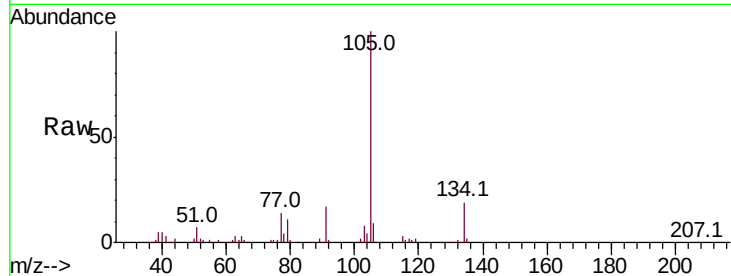
134 18.2 9.3 28.0

Manual Integrations

APPROVED

MMDadoda

5/9/2019 6:32:41 PM



#86

p-Isopropyltoluene

Concen: 5.321 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

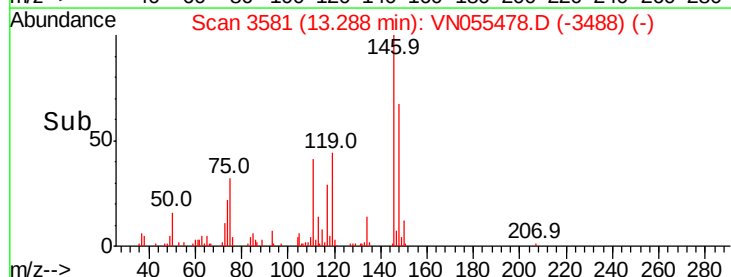
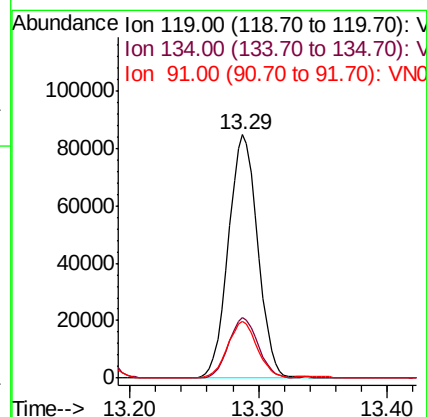
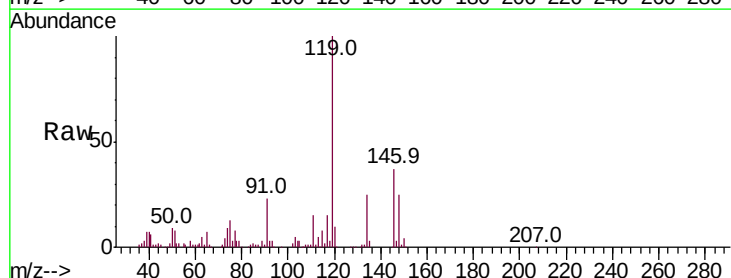
Tgt Ion:119 Resp: 133882

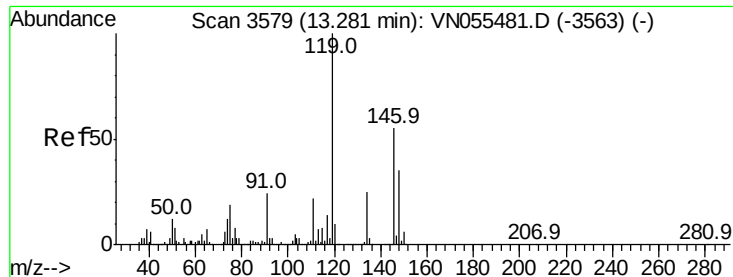
Ion Ratio Lower Upper

119 100

134 25.0 12.8 38.4

91 23.6 12.0 36.0





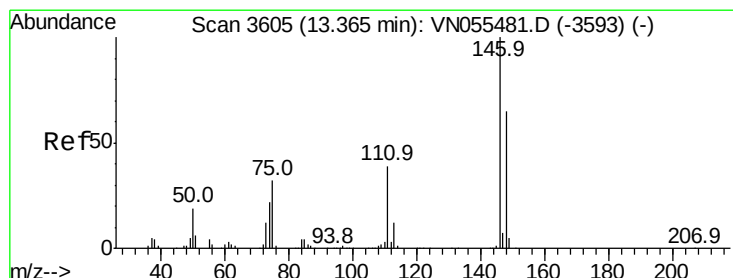
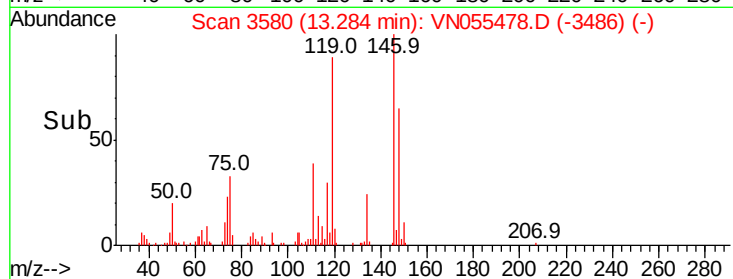
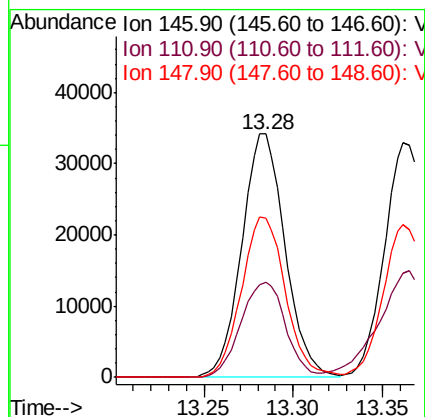
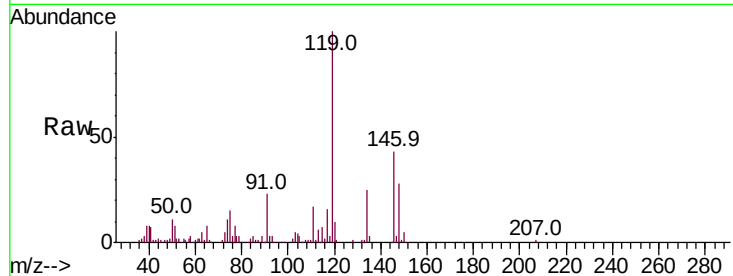
#87
 1,3-Dichlorobenzene
 Concen: 4.829 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN055478.D
 Acq: 8 May 2019 16:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.5	20.4	61.3
148	66.9	32.1	96.5

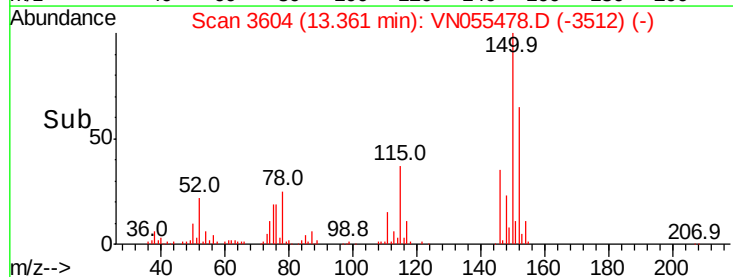
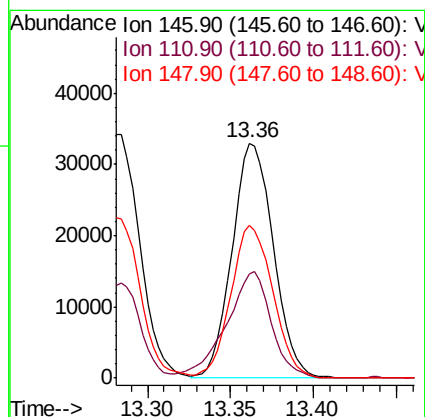
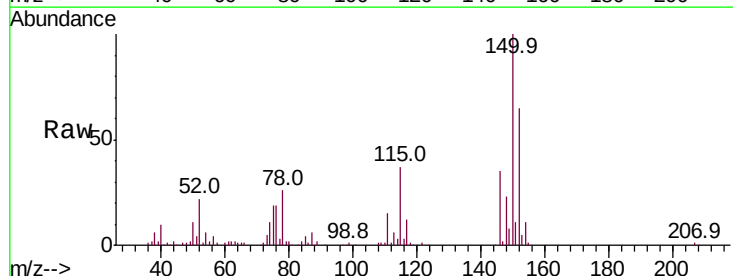
Manual Integrations
 APPROVED

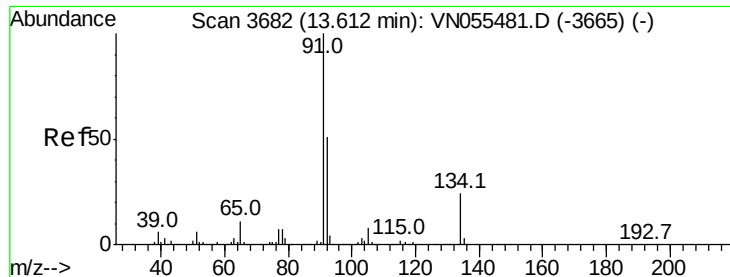
MMDadoda
 5/9/2019 6:32:41 PM



#88
 1,4-Dichlorobenzene
 Concen: 5.089 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VN055478.D
 Acq: 8 May 2019 16:34

Tgt Ion	Ratio	Lower	Upper
146	100		
111	49.2	19.6	58.8
148	66.0	32.5	97.4





#89

n-Butylbenzene

Concen: 5.210 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

Instrument :

MSVOA_N

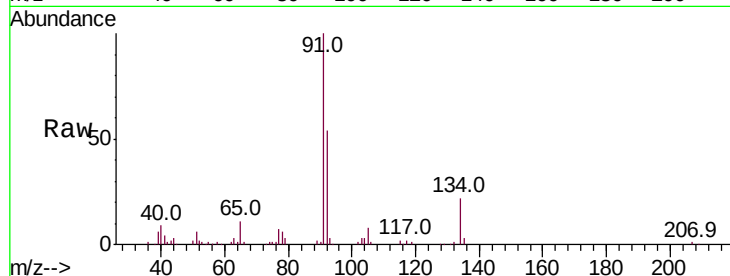
ClientSampled :

VSTDIC005

Tot Ion:	91	Resp:	94513
Ion	Ratio	Lower	Upper
91	100		
92	53.8	25.9	77.7
134	23.4	11.8	35.4

Manual Integrations
APPROVED

MMDadoda
5/9/2019 6:32:41 PM

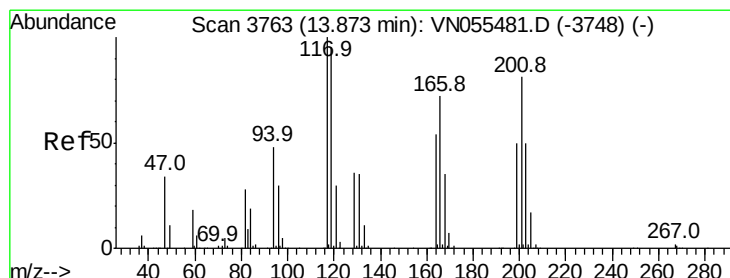
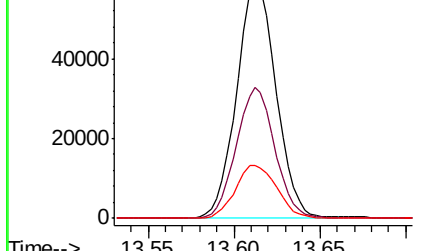
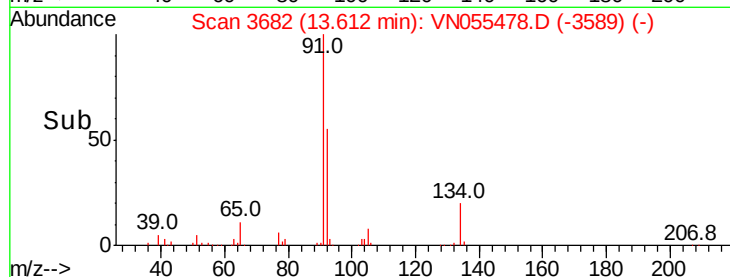


Abundance Ion 91.00 (90.70 to 91.70): VN055481.D (-3665) (-)

Ion 92.00 (91.70 to 92.70): VN055481.D (-3665) (-)

Ion 134.00 (133.70 to 134.70): VN055481.D (-3665) (-)

Time-->



#90

Hexachloroethane

Concen: 4.664 ug/l

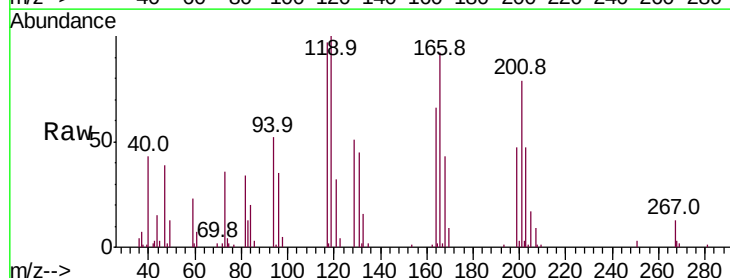
RT: 13.87 min Scan# 3763

Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

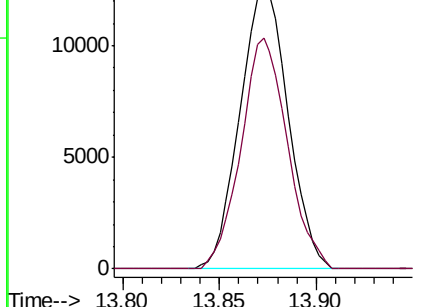
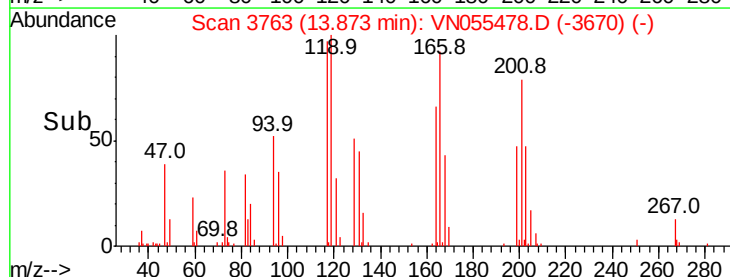
Tgt Ion:	117	Resp:	21819
Ion	Ratio	Lower	Upper
117	100		
201	79.1	40.1	120.2

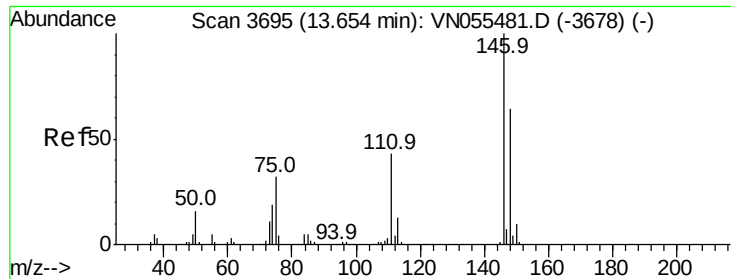


Abundance Ion 116.80 (116.50 to 117.50): VN055481.D (-3748) (-)

Ion 200.70 (200.40 to 201.40): VN055481.D (-3748) (-)

Time-->





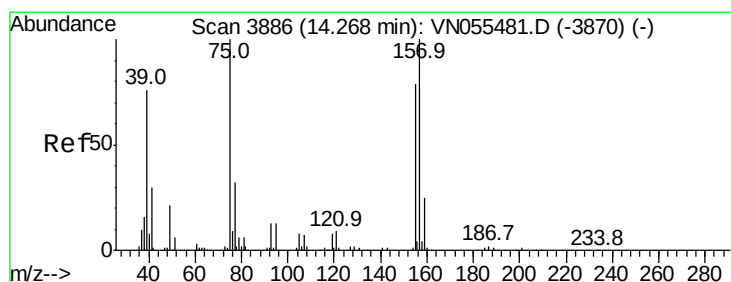
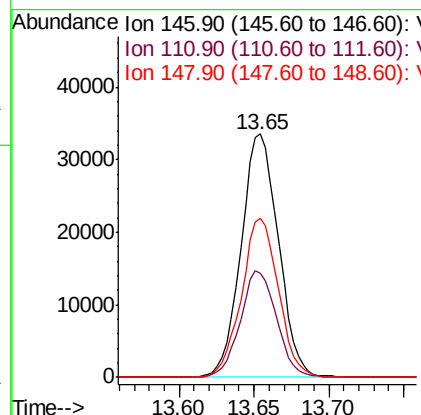
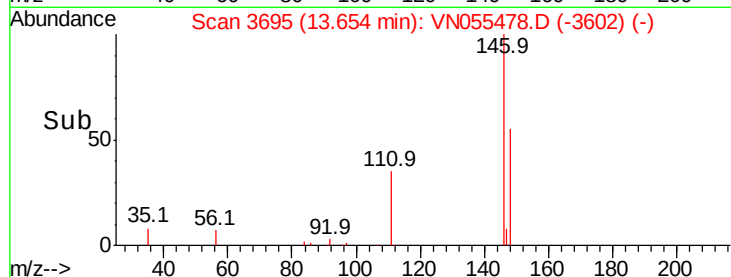
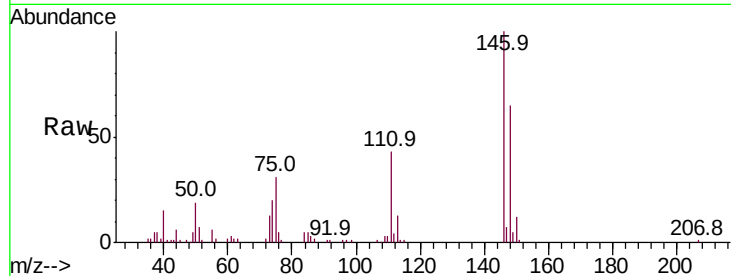
#91
 1,2-Dichlorobenzene
 Concen: 4.910 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN055478.D
 Acq: 8 May 2019 16:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.3	63.7
148	64.6	31.9	95.9

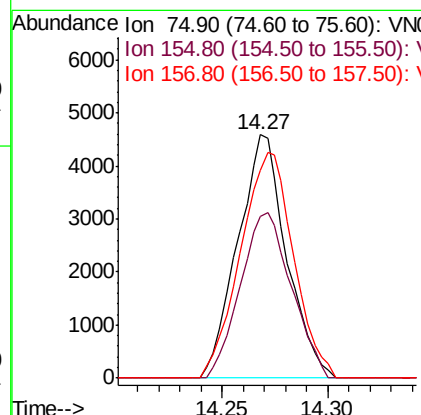
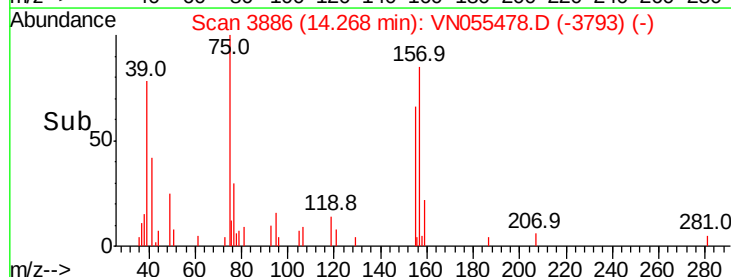
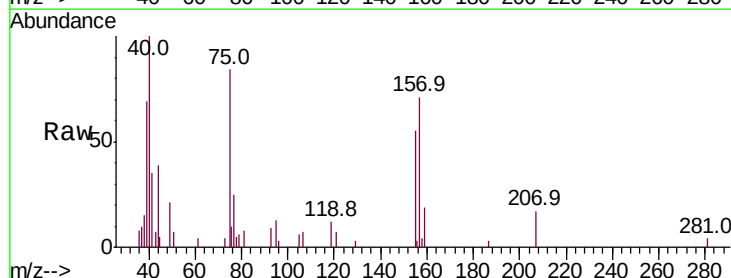
Manual Integrations
 APPROVED

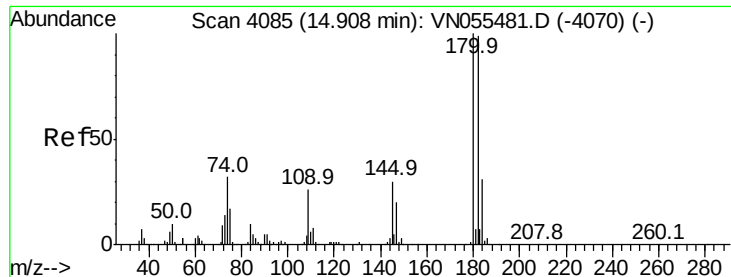
MMDadoda
 5/9/2019 6:32:41 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 7.064 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN055478.D
 Acq: 8 May 2019 16:34

Tgt Ion	Ratio	Lower	Upper
75	100		
155	71.2	39.3	117.8
157	101.0	50.6	151.8





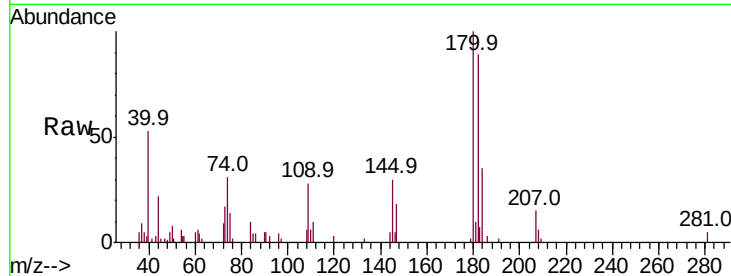
#93
 1,2,4-Trichlorobenzene
 Concen: 4.417 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055478.D
 Acq: 8 May 2019 16:34

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
180	100	16733		
182	93.1	48.7	146.1	
145	29.5	15.3	45.9	

Manual Integrations
 APPROVED

MMDadoda
 5/9/2019 6:32:41 PM

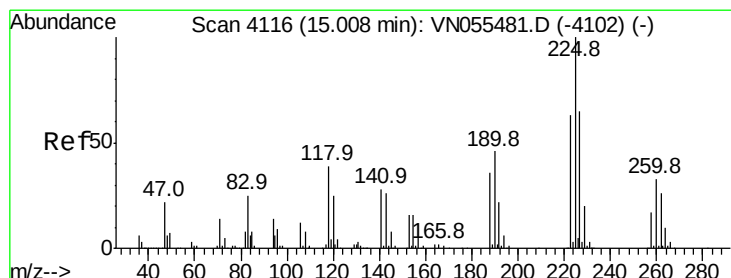
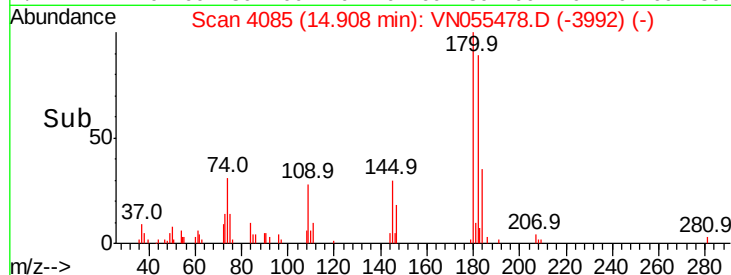
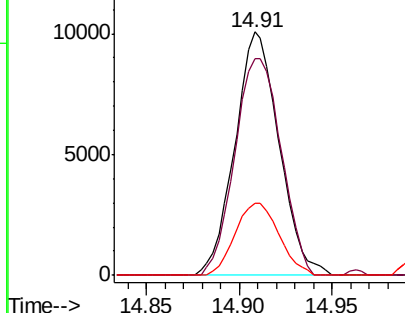


Abundance

Ion 179.80 (179.50 to 180.50): V

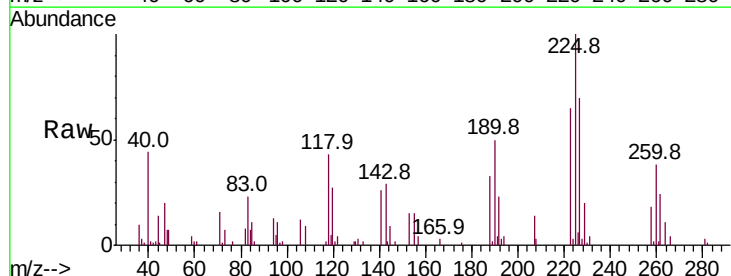
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 5.098 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055478.D
 Acq: 8 May 2019 16:34

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	22204		
223	62.5	31.4	94.3	
227	65.6	32.0	96.0	

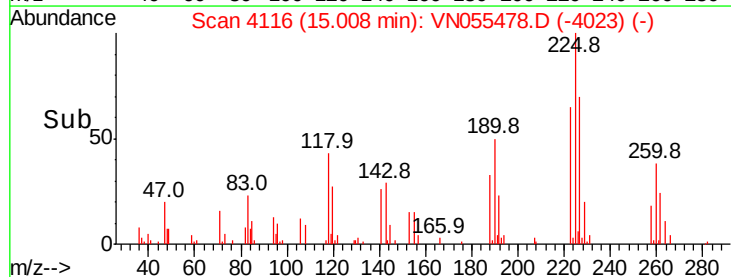
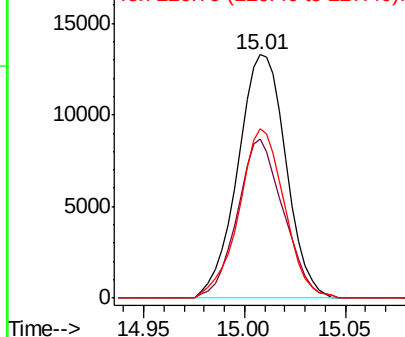


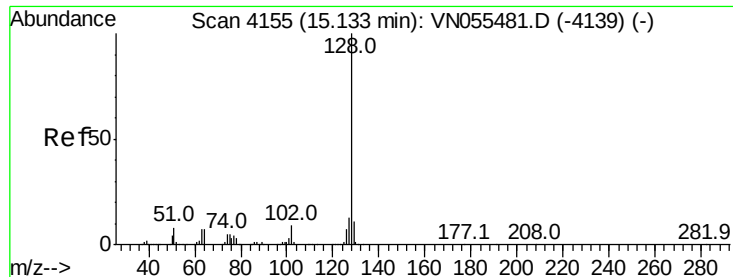
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 5.397 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

Instrument :

MSVOA_N

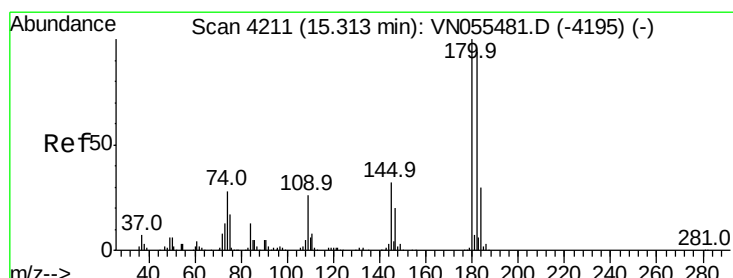
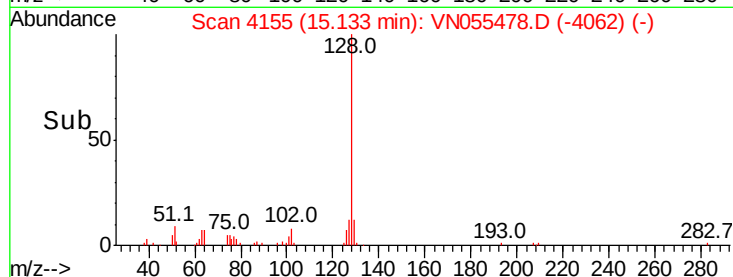
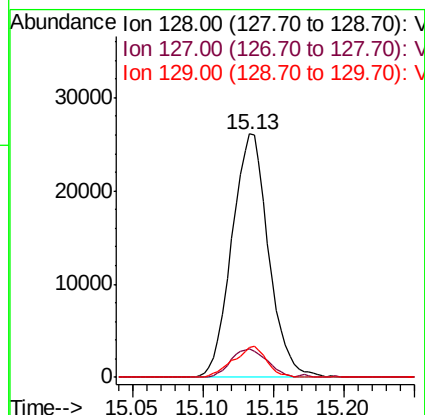
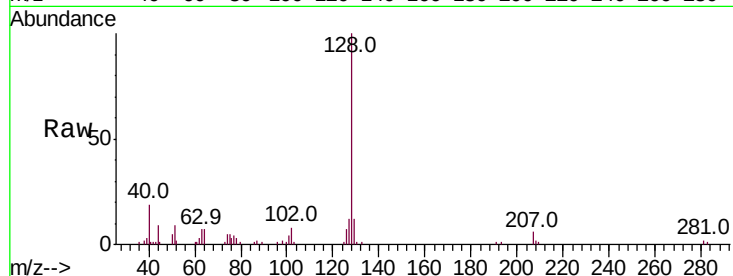
ClientSampleId :

VSTDIC005

Tot Ion:	128	Resp:	47464
Ion Ratio	Lower	Upper	
128	100		
127	11.7	10.0	15.0
129	11.6	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
5/9/2019 6:32:41 PM



#96

1,2,3-Trichlorobenzene

Concen: 4.593 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN055478.D

Acq: 8 May 2019 16:34

Tgt Ion:	180	Resp:	18239
Ion Ratio	Lower	Upper	
180	100		
182	96.0	47.1	141.3
145	31.9	15.8	47.4

