

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051019\
 Data File : VF062415.D
 Acq On : 10 May 2019 10:40
 Operator : FY/SY
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 5/11/2019 3:54:03 PM

Quant Time: May 10 14:58:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.07	168	325528	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.79	114	407078	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.92	117	402991	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	223332	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.04	65	159473	51.84	ug/l	0.02
Spiked Amount	50.000		Recovery	=	103.68%	
35) Dibromofluoromethane	4.32	113	180239	55.58	ug/l	0.02
Spiked Amount	50.000		Recovery	=	111.16%	
50) Toluene-d8	7.72	98	431742	55.00	ug/l	0.02
Spiked Amount	50.000		Recovery	=	110.00%	
62) 4-Bromofluorobenzene	11.49	95	195760	55.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.54%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.01	85	148142	39.322	ug/l	97
3) Chloromethane	1.14	50	88928	35.790	ug/l	98
4) Vinyl Chloride	1.19	62	95700	38.614	ug/l	98
5) Bromomethane	1.39	94	82565	43.841	ug/l	97
6) Chloroethane	1.44	64	53320	42.792	ug/l #	84
7) Trichlorofluoromethane	1.56	101	230159	44.758	ug/l	89
8) Diethyl Ether	1.72	74	28186	36.225	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	1.90	101	129852	44.231	ug/l	99
10) Methyl Iodide	1.98	142	210104	43.428	ug/l	97
11) Tert butyl alcohol	2.70	59	30474	175.271	ug/l #	90
12) 1,1-Dichloroethene	1.87	96	95562	38.289	ug/l	95
13) Acrolein	2.10	56	22441	205.009	ug/l	95
14) Allyl chloride	2.20	41	156385	70.934	ug/l	98
15) Acrylonitrile	3.09	53	67385	204.599	ug/l	99
16) Acetone	2.36	43	179235	288.007	ug/l	94
17) Carbon Disulfide	1.91	76	202321	37.178	ug/l #	92
18) Methyl Acetate	2.46	43	46790	40.641	ug/l	98
19) Methyl tert-butyl Ether	2.55	73	219742	42.652	ug/l	97
20) Methylene Chloride	2.34	84	95445	42.390	ug/l	91
21) trans-1,2-Dichloroethene	2.43	96	100746	42.368	ug/l	93
22) Diisopropyl ether	2.94	45	296431	43.020	ug/l	98
23) Vinyl Acetate	3.35	43	659150	214.635	ug/l	99
24) 1,1-Dichloroethane	3.02	63	194491	46.702	ug/l	98
25) 2-Butanone	4.53	43	183868	235.171	ug/l	97
26) 2,2-Dichloropropane	3.79	77	122675	52.749	ug/l	97
27) cis-1,2-Dichloroethene	3.66	96	132916	44.717	ug/l	95
28) Bromochloromethane	3.91	49	96841	51.274	ug/l	92
29) Tetrahydrofuran	4.28	42	63299	176.157	ug/l	98
30) Chloroform	4.06	83	260480	46.298	ug/l	97
31) Cyclohexane	3.89	56	139878	42.081	ug/l	94
32) 1,1,1-Trichloroethane	4.30	97	226799	47.034	ug/l	99
36) 1,1-Dichloropropene	4.49	75	163816	46.845	ug/l	98
37) Ethyl Acetate	4.31	43	61236	44.377	ug/l #	99
38) Carbon Tetrachloride	4.20	117	196612m	54.453	ug/l	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051019\
 Data File : VF062415.D
 Acq On : 10 May 2019 10:40
 Operator : FY/SY
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 5/11/2019 3:54:03 PM

Quant Time: May 10 14:58:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.64	83	152237	43.408	ug/l	100
40) Benzene	4.83	78	357282	46.397	ug/l	93
41) Methacrylonitrile	4.94	41	35206	41.987	ug/l	94
42) 1,2-Dichloroethane	5.14	62	156826	48.694	ug/l	98
43) Isopropyl Acetate	7.12	43	65292	41.049	ug/l #	97
44) Trichloroethene	5.69	130	132650	46.893	ug/l	98
45) 1,2-Dichloropropane	6.42	63	86768	49.747	ug/l	99
46) Dibromomethane	6.27	93	69467	48.036	ug/l	95
47) Bromodichloromethane	6.56	83	183322	50.703	ug/l	96
48) Methyl methacrylate	6.88	41	51005	45.376	ug/l	97
49) 1,4-Dioxane	6.87	88	8892	766.106	ug/l	95
51) 4-Methyl-2-Pentanone	8.41	43	281332	233.421	ug/l	100
52) Toluene	7.79	92	228671	48.136	ug/l	98
53) t-1,3-Dichloropropene	8.43	75	139554	51.033	ug/l	98
54) cis-1,3-Dichloropropene	7.46	75	159312	50.058	ug/l	92
55) 1,1,2-Trichloroethane	8.65	97	72859	48.313	ug/l	93
56) Ethyl methacrylate	8.76	69	68765	43.197	ug/l	99
57) 1,3-Dichloropropane	9.00	76	113715	49.920	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.45	63	109485	228.763	ug/l	99
59) 2-Hexanone	9.63	43	222666	267.128	ug/l	95
60) Dibromochloromethane	8.86	129	121936	49.438	ug/l	98
61) 1,2-Dibromoethane	9.14	107	85780	48.397	ug/l	97
64) Tetrachloroethene	8.31	164	135451	41.402	ug/l	98
65) Chlorobenzene	9.94	112	309599	46.432	ug/l	95
66) 1,1,1,2-Tetrachloroethane	10.06	131	148062	44.018	ug/l	97
67) Ethyl Benzene	10.04	91	524784	44.946	ug/l	99
68) m/p-Xylenes	10.26	106	371543	86.246	ug/l	99
69) o-Xylene	10.82	106	202360	43.471	ug/l	99
70) Styrene	10.89	104	294015	42.143	ug/l	98
71) Bromoform	10.88	173	76792	41.671	ug/l	99
73) Isopropylbenzene	11.22	105	611059	46.153	ug/l	100
74) N-amyl acetate	11.45	43	108642	38.221	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.77	83	93498	45.102	ug/l	95
76) 1,2,3-Trichloropropane	11.87	75	69689	44.062	ug/l #	100
77) Bromobenzene	11.58	156	160347	46.146	ug/l	98
78) n-propylbenzene	11.67	91	664364	47.131	ug/l	99
79) 2-Chlorotoluene	11.80	91	408760	46.635	ug/l	100
80) 1,3,5-Trimethylbenzene	11.90	105	546732	47.113	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.94	75	26959m	45.347	ug/l	
82) 4-Chlorotoluene	11.98	91	410925	47.467	ug/l	98
83) tert-Butylbenzene	12.20	119	557282	45.694	ug/l	100
84) 1,2,4-Trimethylbenzene	12.27	105	528372	46.526	ug/l	98
85) sec-Butylbenzene	12.37	105	708097	47.700	ug/l	99
86) p-Isopropyltoluene	12.52	119	636068	46.118	ug/l	100
87) 1,3-Dichlorobenzene	12.54	146	292958	46.163	ug/l	99
88) 1,4-Dichlorobenzene	12.63	146	284756	46.490	ug/l	99
89) n-Butylbenzene	12.90	91	581595	47.397	ug/l	99
90) Hexachloroethane	12.97	117	155958	45.288	ug/l	98
91) 1,2-Dichlorobenzene	13.00	146	283171	46.100	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.69	75	19414	41.802	ug/l	97

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF051019\
Data File : VF062415.D
Acq On : 10 May 2019 10:40
Operator : FY/SY
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA F/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

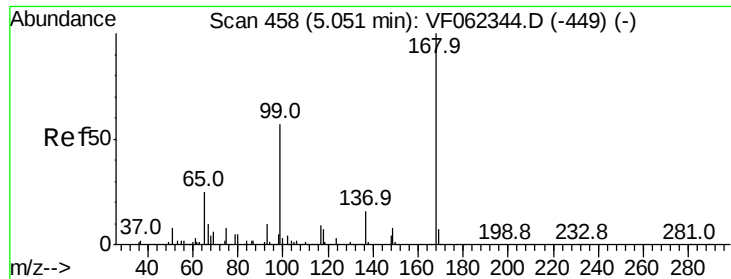
Manual Integrations
APPROVED

MMDadoda
5/11/2019 3:54:03 PM

Quant Time: May 10 14:58:21 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
Quant Title : SW846 8260
QLast Update : Tue May 07 04:34:57 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.24	180	254788	46.244	ug/l	100
94) Hexachlorobutadiene	14.23	225	199866	48.671	ug/l	95
95) Naphthalene	14.49	128	358124	43.235	ug/l	99
96) 1,2,3-Trichlorobenzene	14.64	180	251690	47.154	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 460

Delta R.T. 0.02 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 325528

Ion Ratio Lower Upper

168 100

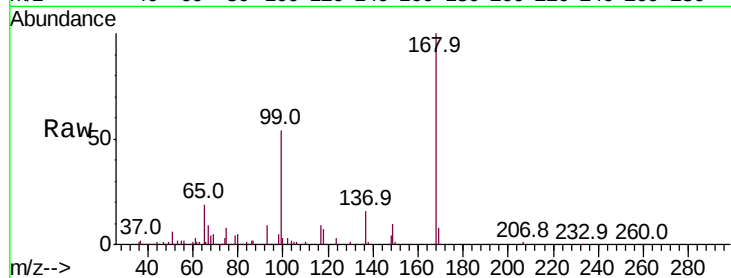
99 53.5 45.9 68.9

Manual Integrations

APPROVED

MMDadoda

5/11/2019 3:54:03 PM



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.07

120000

100000

80000

60000

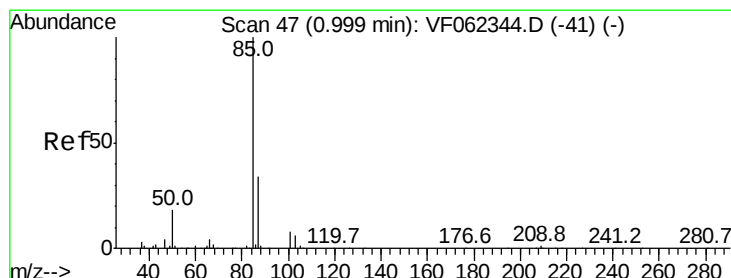
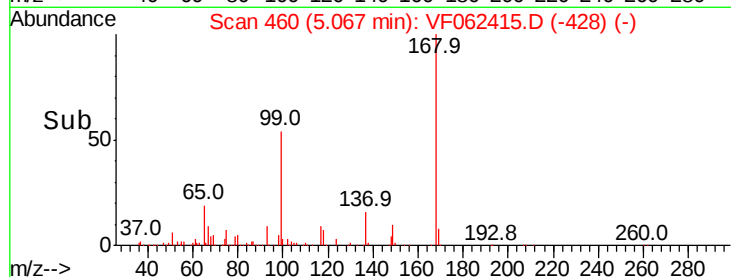
40000

20000

0

5.00 5.20 5.40

Time-->



#2

Dichlorodifluoromethane

Concen: 39.322 ug/l

RT: 1.01 min Scan# 48

Delta R.T. 0.01 min

Lab File: VF062415.D

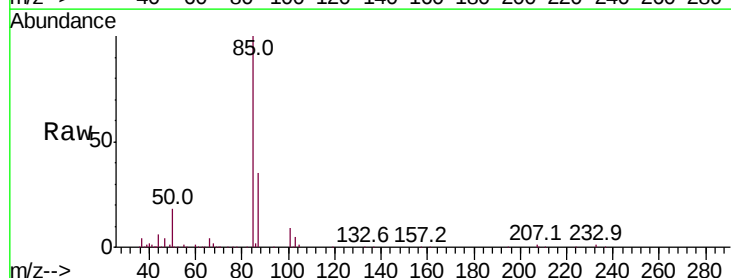
Acq: 10 May 2019 10:40

Tgt Ion: 85 Resp: 148142

Ion Ratio Lower Upper

85 100

87 35.2 16.8 50.4



Abundance Ion 84.90 (84.60 to 85.60): VF0

Ion 86.90 (86.60 to 87.60): VF0

1.01

50000

40000

30000

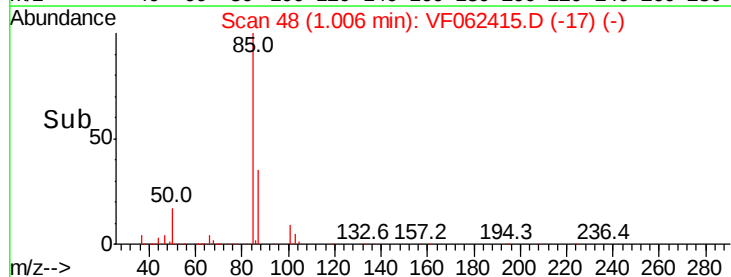
20000

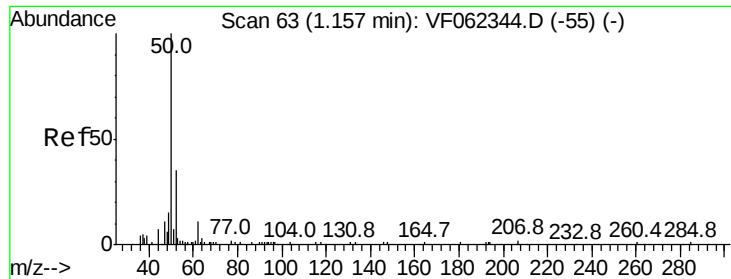
10000

0

0.80 1.00 1.20

Time-->





#3

Chloromethane

Concen: 35.790 ug/l

RT: 1.14 min Scan# 62

Delta R.T. -0.01 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 88928

Ion Ratio Lower Upper

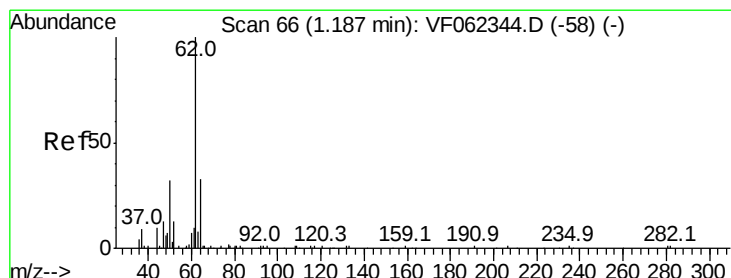
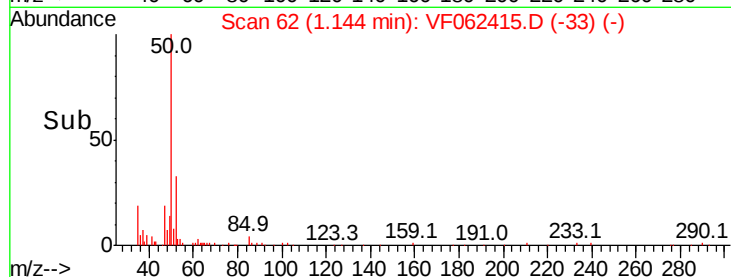
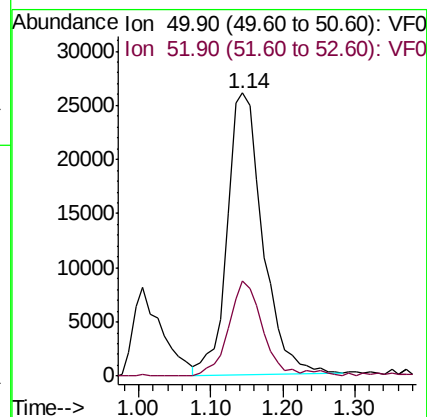
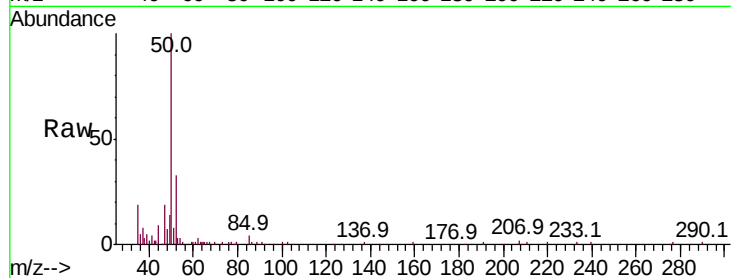
50 100

52 33.8 26.1 39.1

Manual Integrations
APPROVED

MMDadoda

5/11/2019 3:54:03 PM



#4

Vinyl Chloride

Concen: 38.614 ug/l

RT: 1.19 min Scan# 67

Delta R.T. 0.01 min

Lab File: VF062415.D

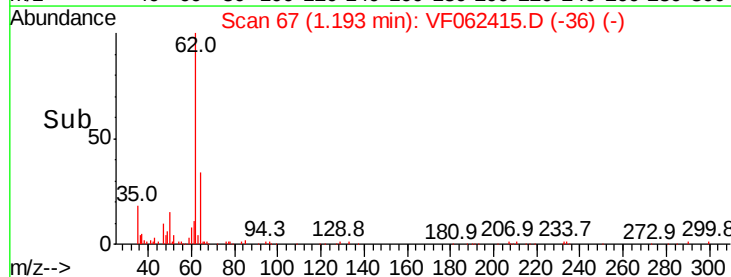
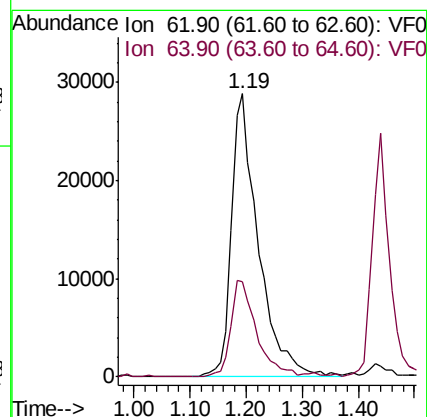
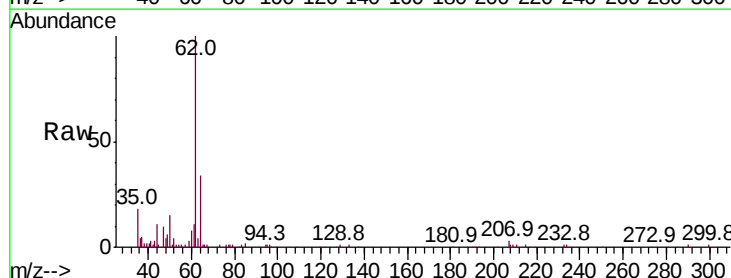
Acq: 10 May 2019 10:40

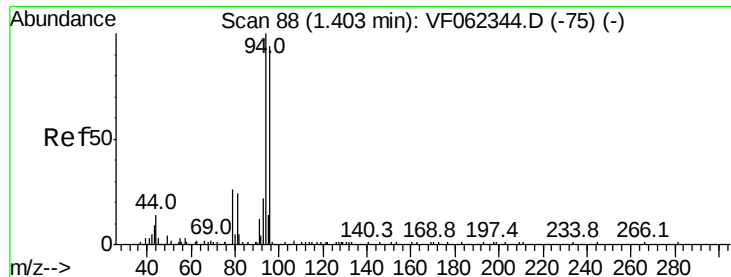
Tgt Ion: 62 Resp: 95700

Ion Ratio Lower Upper

62 100

64 33.5 26.1 39.1





#5

Bromomethane

Concen: 43.841 ug/l

RT: 1.39 min Scan# 87

Delta R.T. -0.01 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 82565

Ion Ratio Lower Upper

94 100

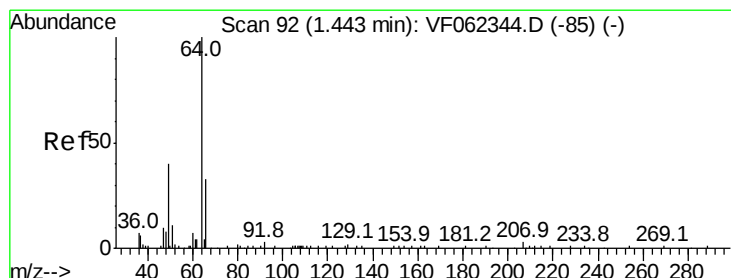
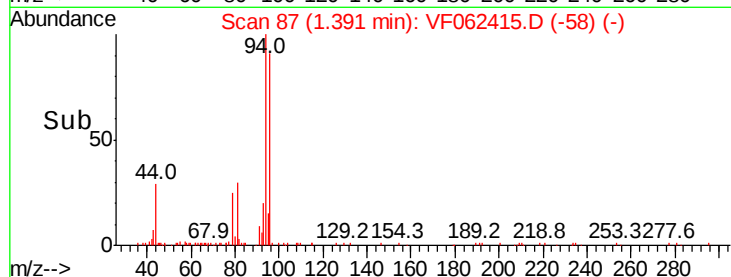
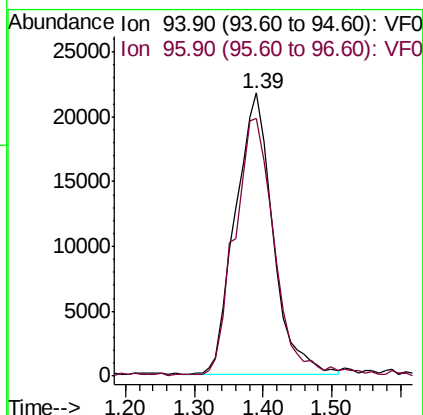
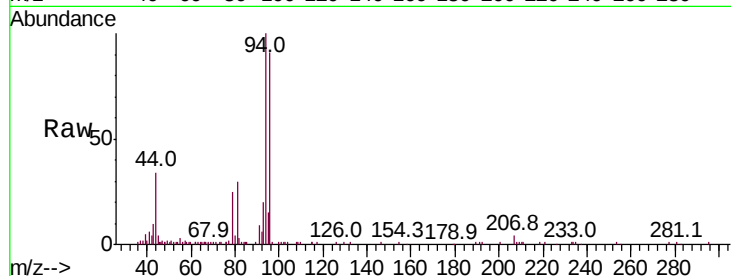
96 91.2 75.4 113.2

Manual Integrations

APPROVED

MMDadoda

5/11/2019 3:54:03 PM



#6

Chloroethane

Concen: 42.792 ug/l

RT: 1.44 min Scan# 92

Delta R.T. -0.00 min

Lab File: VF062415.D

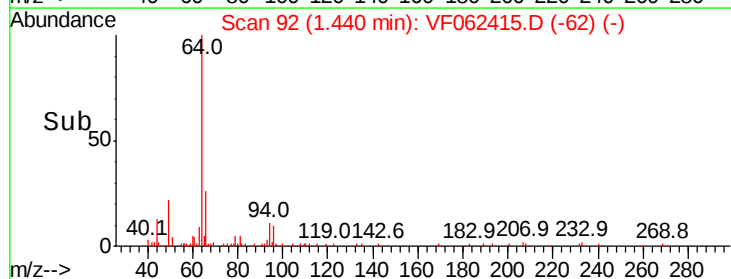
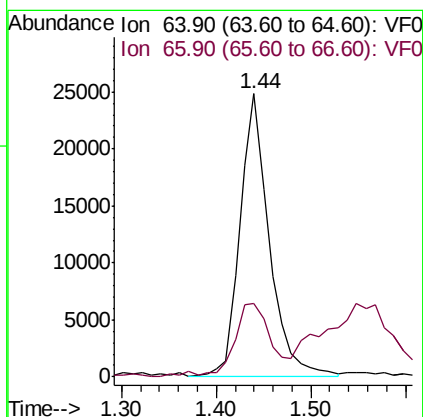
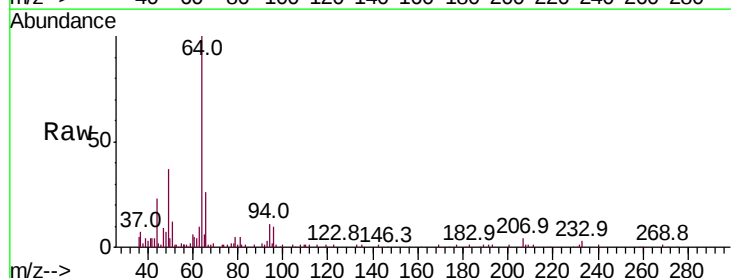
Acq: 10 May 2019 10:40

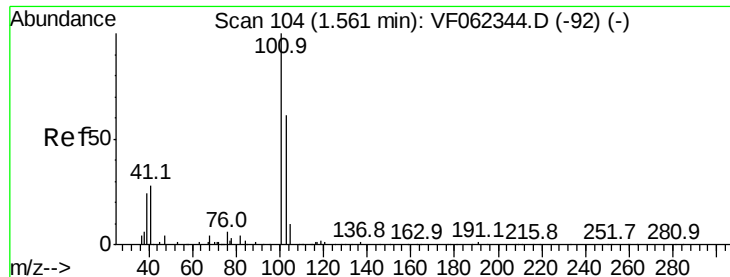
Tgt Ion: 64 Resp: 53320

Ion Ratio Lower Upper

64 100

66 24.1 26.6 39.8#





#7

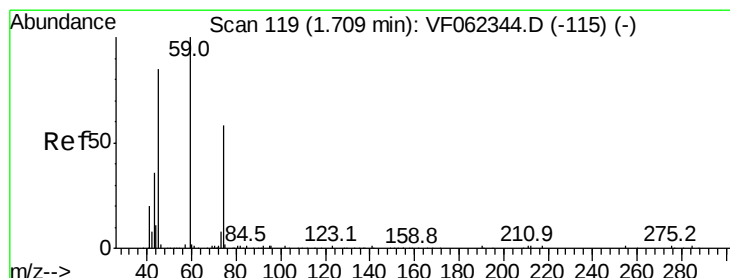
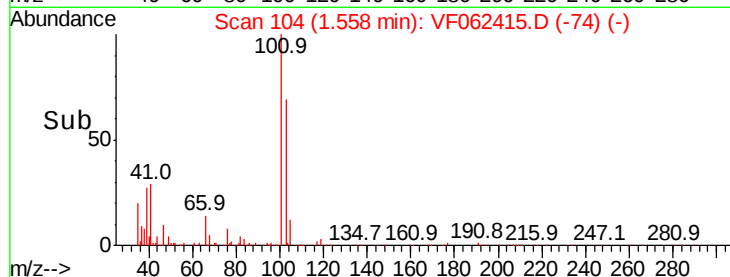
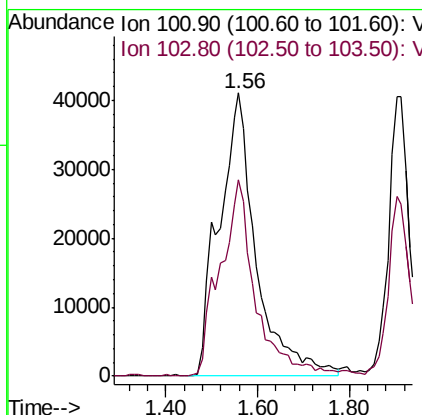
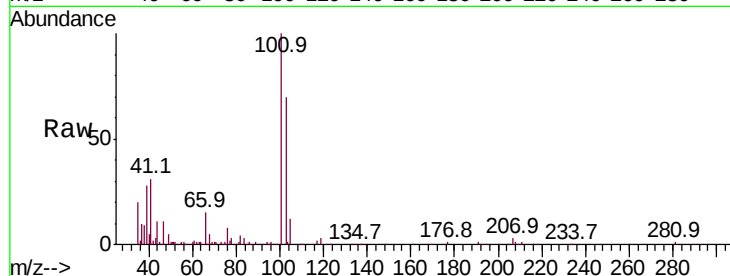
Trichlorofluoromethane
Concen: 44.758 ug/l
RT: 1.56 min Scan# 104
Delta R.T. -0.00 min
Lab File: VF062415.D
Acq: 10 May 2019 10:40

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
101	100	230159		
103	69.1	48.5	72.7	

Manual Integrations
APPROVED

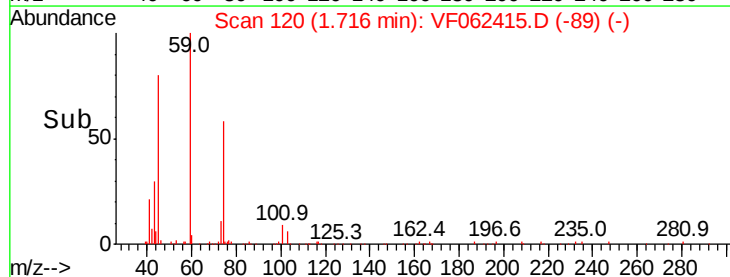
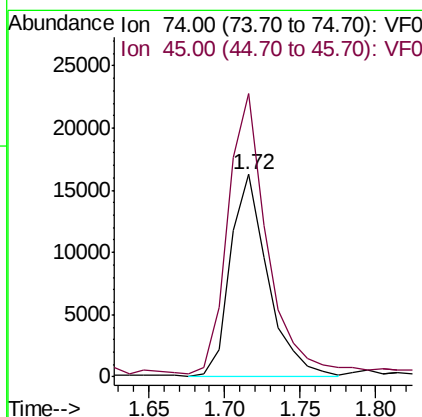
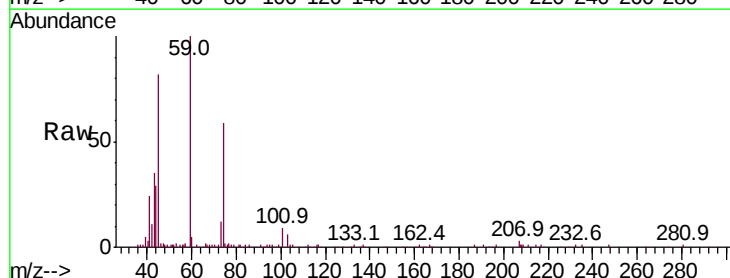
MMDadoda
5/11/2019 3:54:03 PM

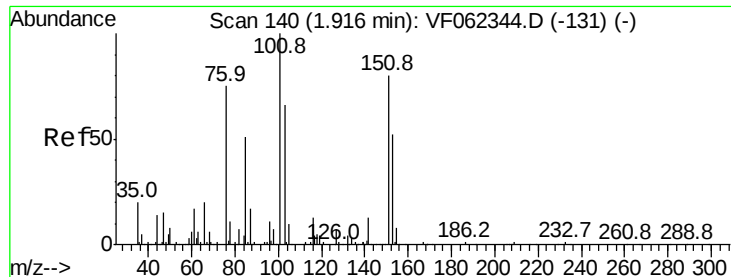


#8

Diethyl Ether
Concen: 36.225 ug/l
RT: 1.72 min Scan# 120
Delta R.T. 0.01 min
Lab File: VF062415.D
Acq: 10 May 2019 10:40

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	28186		
45	144.5	73.9	221.6	





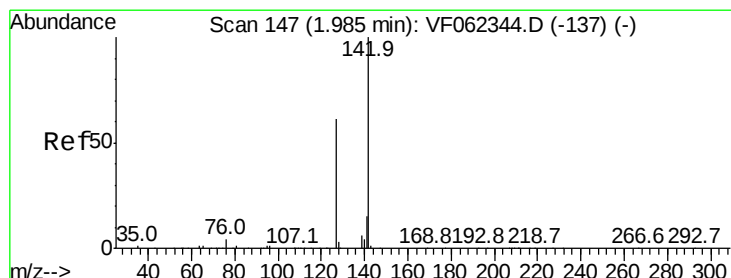
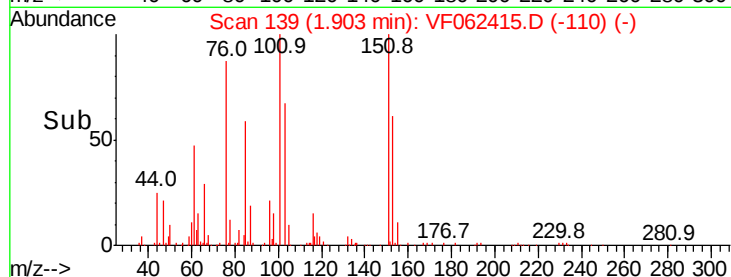
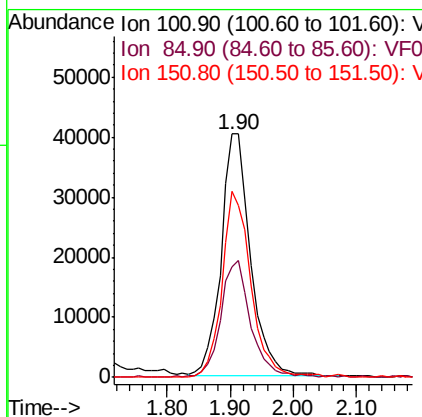
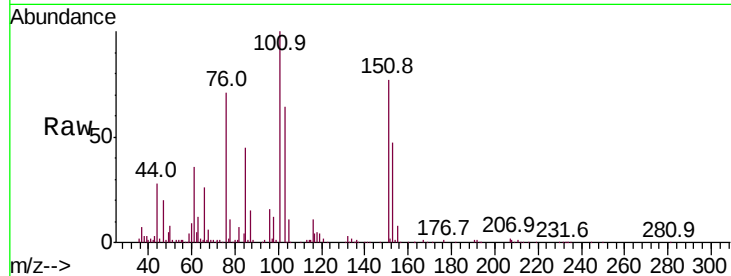
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 44.231 ug/l
 RT: 1.90 min Scan# 139
 Delta R.T. -0.01 min
 Lab File: VF062415.D
 Acq: 10 May 2019 10:40

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
101	100	129852		
85	49.6	39.5	59.3	
151	75.7	59.9	89.9	

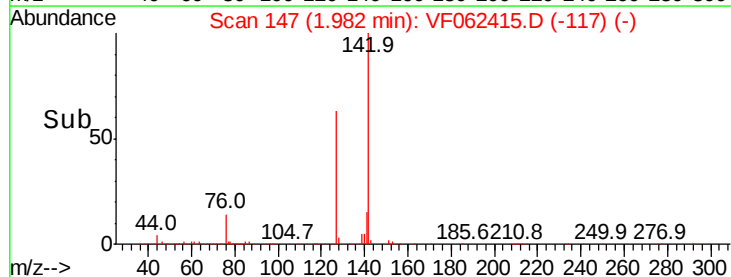
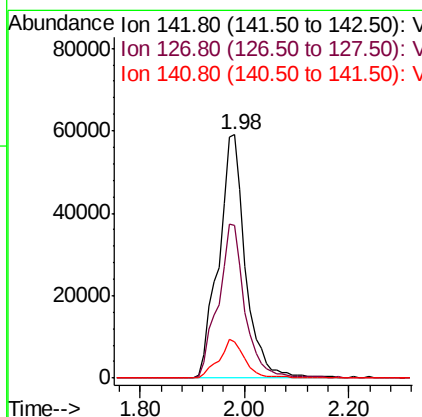
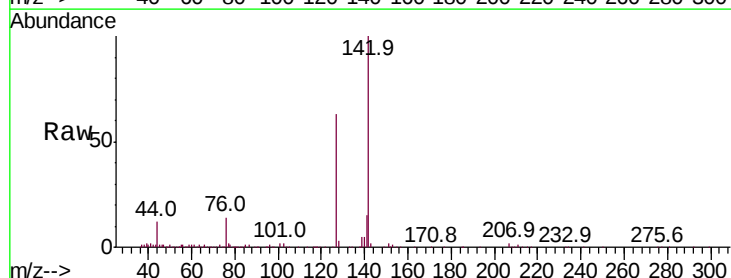
Manual Integrations
 APPROVED

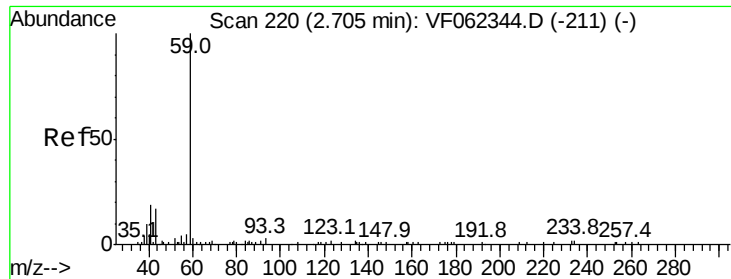
MMDadoda
 5/11/2019 3:54:03 PM



#10
 Methyl Iodide
 Concen: 43.428 ug/l
 RT: 1.98 min Scan# 147
 Delta R.T. -0.00 min
 Lab File: VF062415.D
 Acq: 10 May 2019 10:40

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	210104		
127	63.2	48.4	72.6	
141	15.3	12.2	18.4	





#11

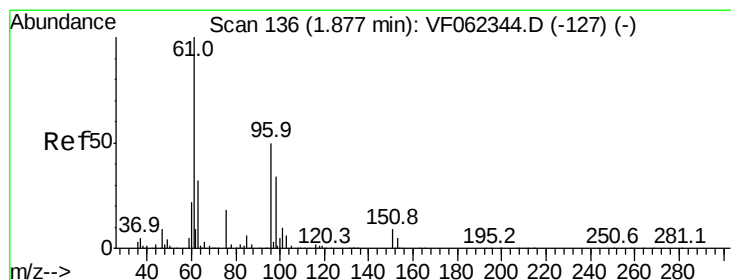
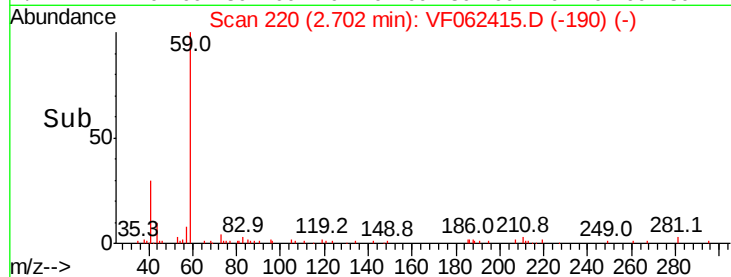
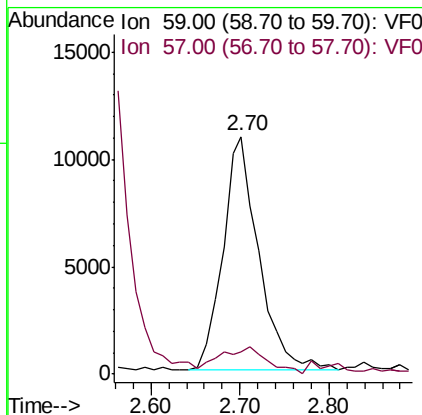
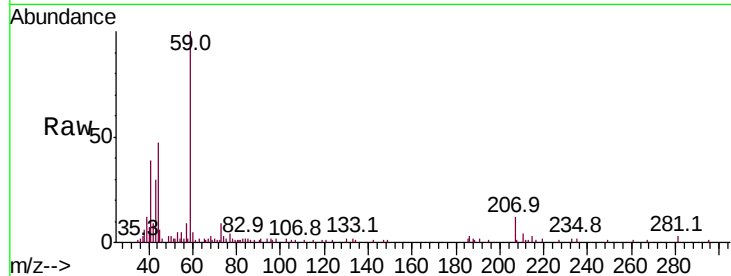
Tert butyl alcohol
 Concen: 175.271 ug/l
 RT: 2.70 min Scan# 220
 Delta R.T. -0.00 min
 Lab File: VF062415.D
 Acq: 10 May 2019 10:40

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	15.5	9.3	13.9#

Manual Integrations
 APPROVED

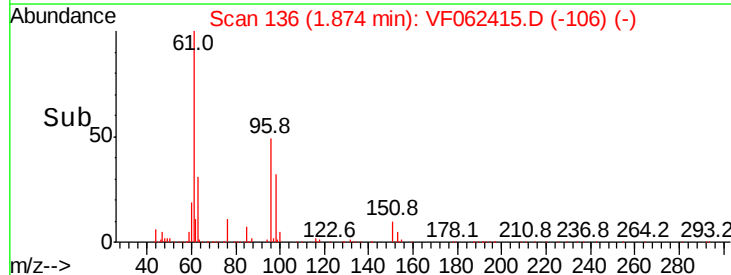
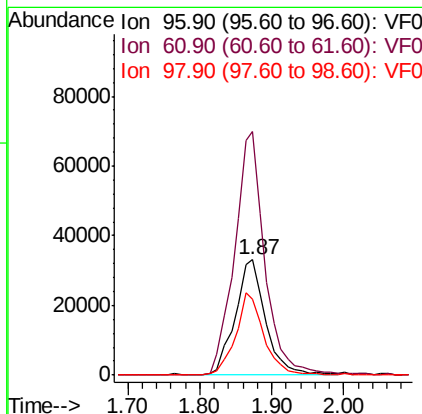
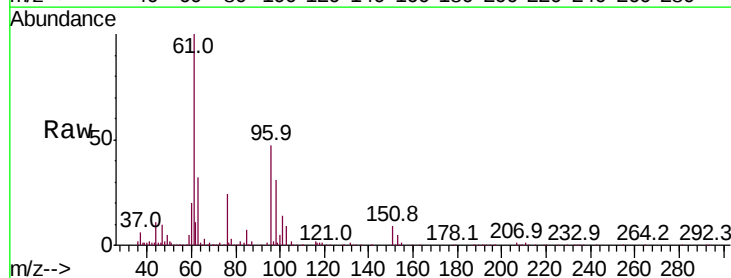
MMDadoda
 5/11/2019 3:54:03 PM

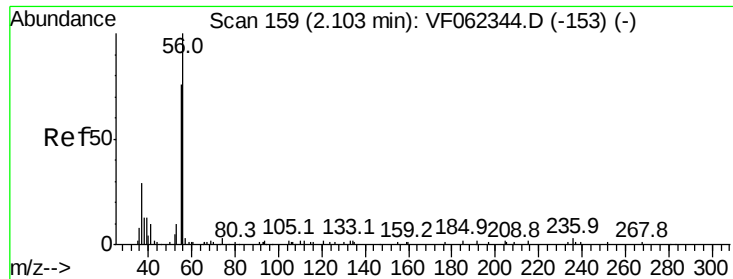


#12

1,1-Dichloroethene
 Concen: 38.289 ug/l
 RT: 1.87 min Scan# 136
 Delta R.T. -0.00 min
 Lab File: VF062415.D
 Acq: 10 May 2019 10:40

Tgt Ion	Ratio	Lower	Upper
96	100		
61	212.8	163.2	244.8
98	65.9	55.2	82.8





#13

Acrolein

Concen: 205.009 ug/l

RT: 2.10 min Scan# 159

Delta R.T. -0.00 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 22441

Ion Ratio Lower Upper

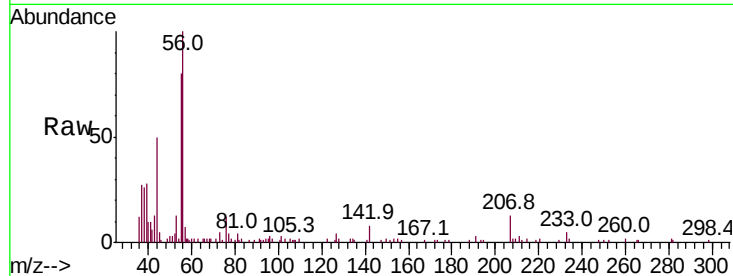
56 100

55 76.8 58.4 87.6

Manual Integrations
APPROVED

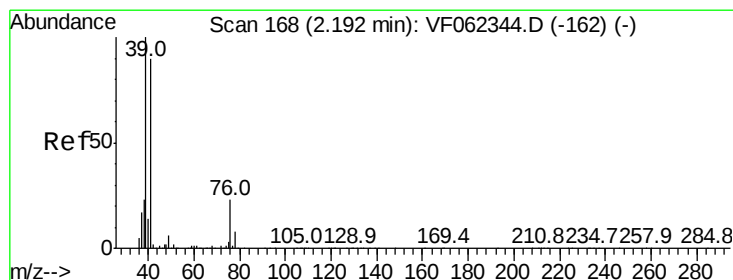
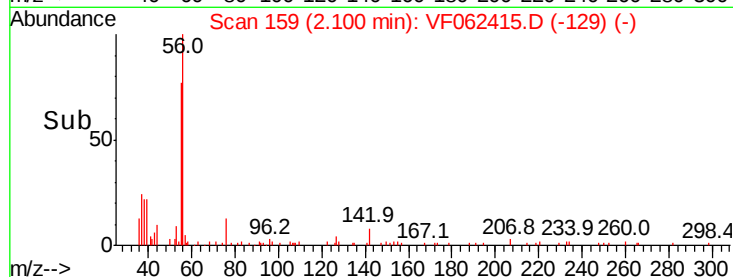
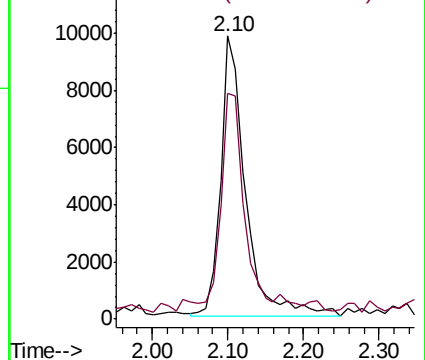
MMDadoda

5/11/2019 3:54:03 PM



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 70.934 ug/l

RT: 2.20 min Scan# 169

Delta R.T. 0.01 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

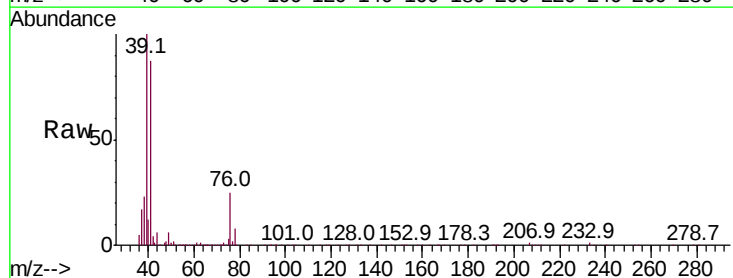
Tgt Ion: 41 Resp: 156385

Ion Ratio Lower Upper

41 100

39 115.1 90.8 136.2

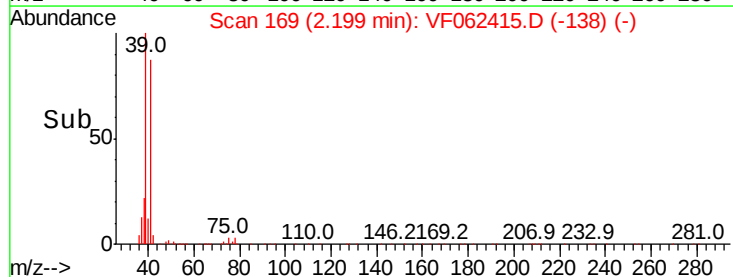
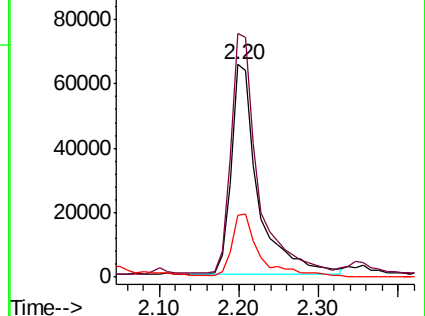
76 31.0 22.2 33.4

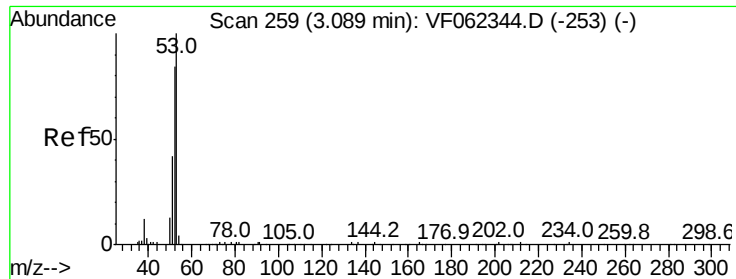


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 75.90 (75.60 to 76.60): VF0





#15

Acrylonitrile

Concen: 204.599 ug/l

RT: 3.09 min Scan# 259

Delta R.T. -0.00 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

Instrument :

MSVOA_F

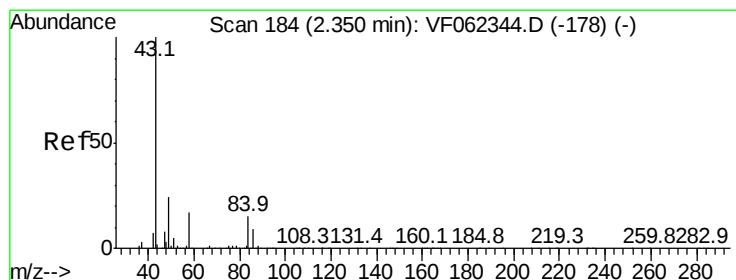
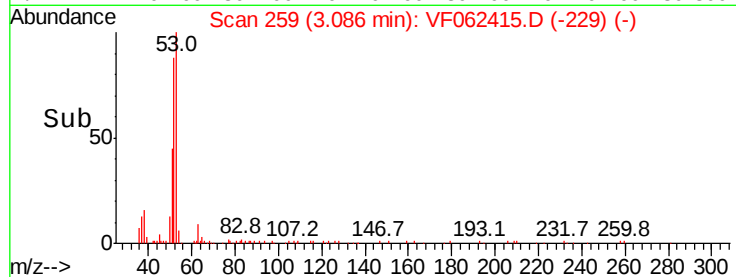
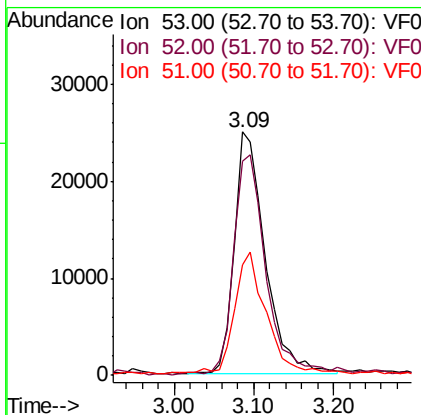
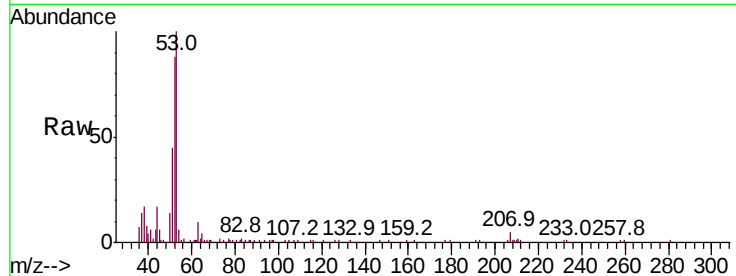
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	67385
Ion Ratio	Lower	Upper	
53	100		
52	97.1	77.2	115.8
51	52.1	40.6	61.0

Manual Integrations
APPROVED

MMDadoda
5/11/2019 3:54:03 PM



#16

Acetone

Concen: 288.007 ug/l

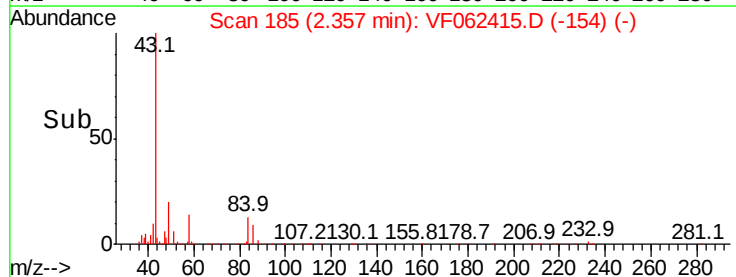
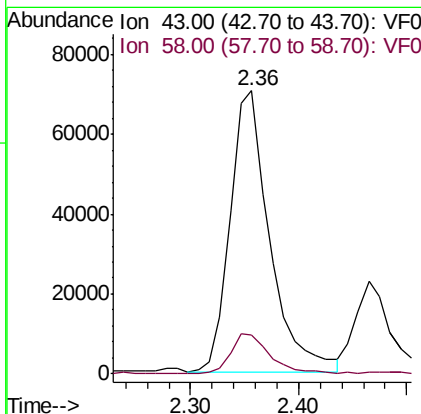
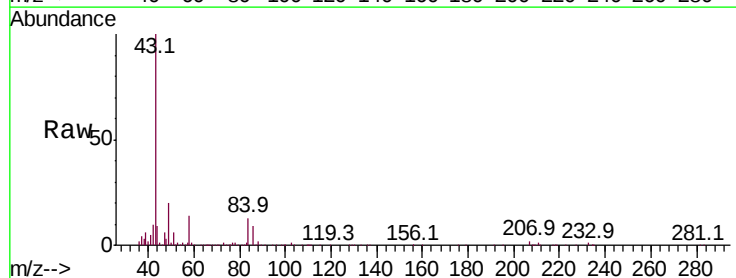
RT: 2.36 min Scan# 185

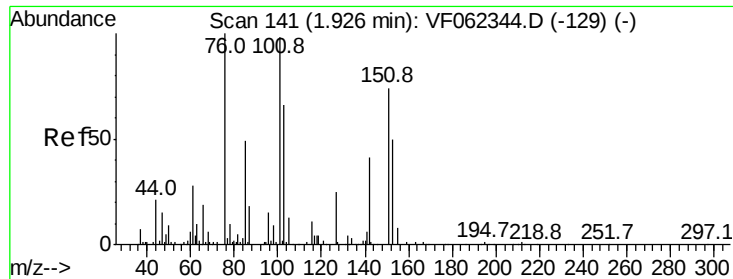
Delta R.T. 0.01 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

Tgt Ion:	43	Resp:	179235
Ion Ratio	Lower	Upper	
43	100		
58	14.0	13.1	19.7





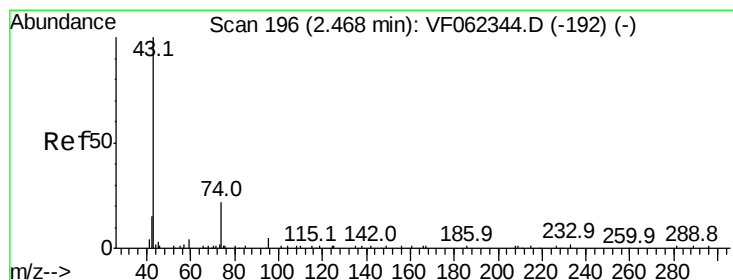
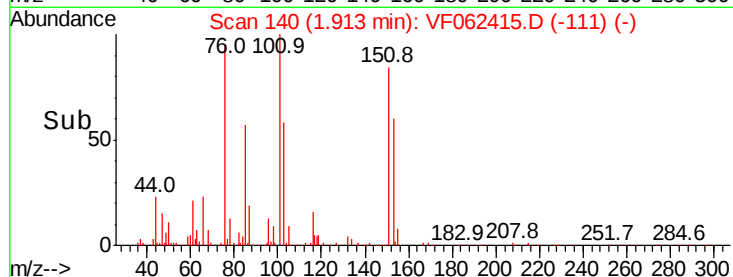
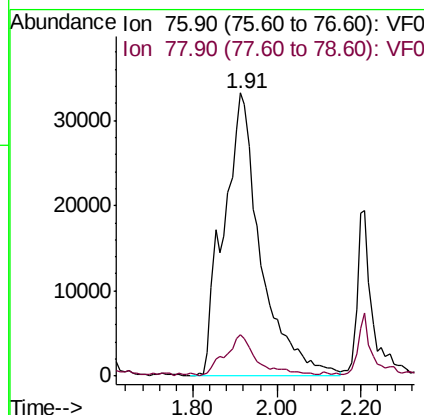
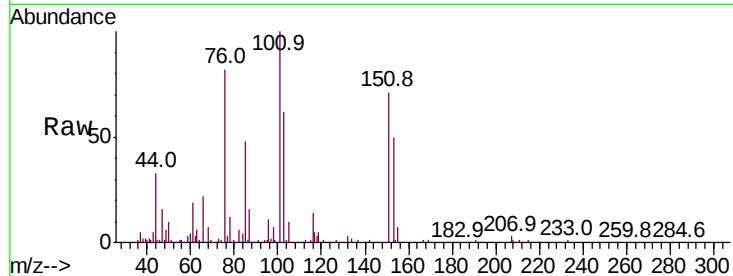
#17
Carbon Disulfide
Concen: 37.178 ug/l
RT: 1.91 min Scan# 140
Delta R.T. -0.01 min
Lab File: VF062415.D
Acq: 10 May 2019 10:40

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	14.1	9.0	13.4#

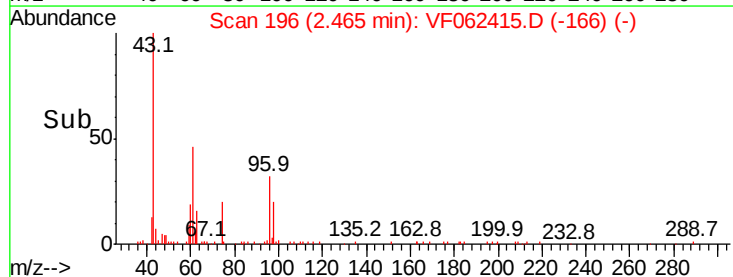
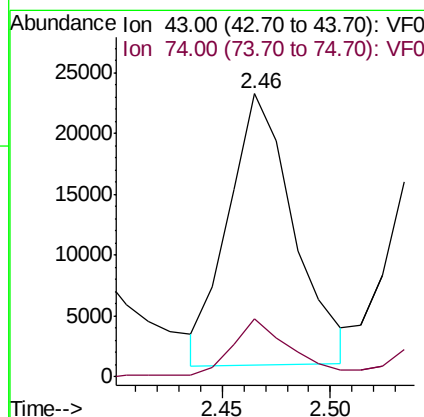
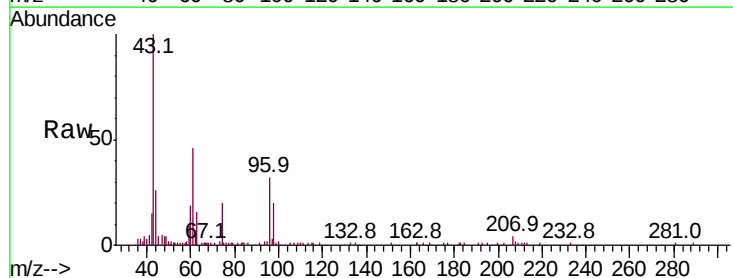
Manual Integrations
APPROVED

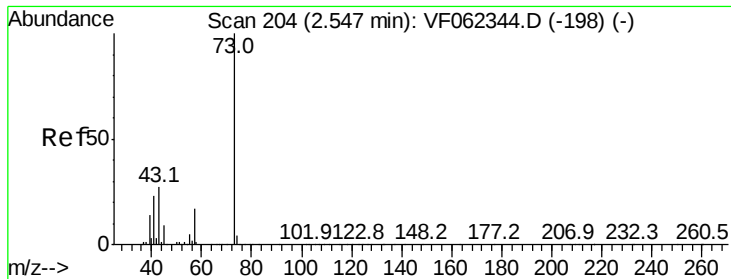
MMDadoda
5/11/2019 3:54:03 PM



#18
Methyl Acetate
Concen: 40.641 ug/l
RT: 2.46 min Scan# 196
Delta R.T. -0.00 min
Lab File: VF062415.D
Acq: 10 May 2019 10:40

Tgt Ion	Ratio	Lower	Upper
43	100		
74	19.8	15.0	22.4





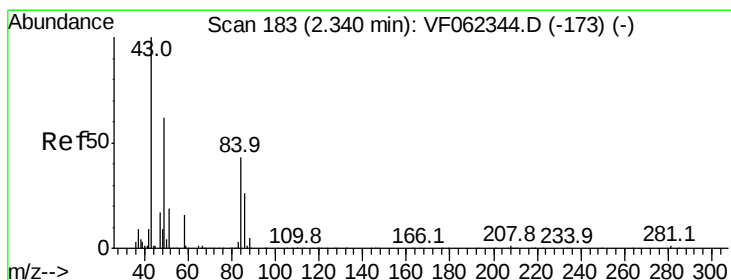
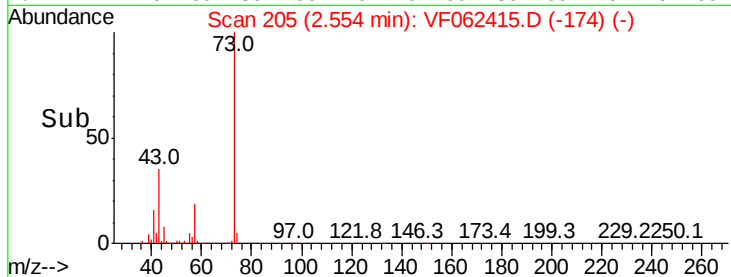
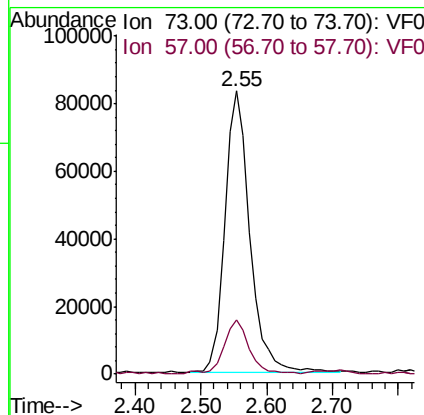
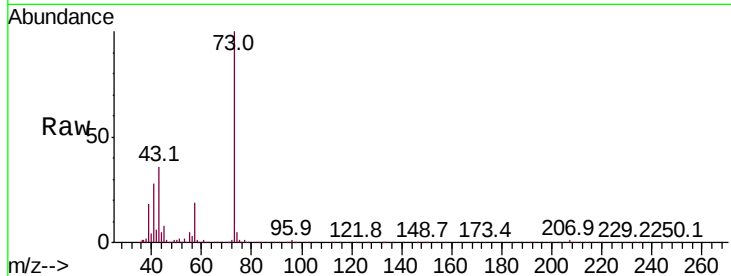
#19
Methyl tert-butyl Ether
Concen: 42.652 ug/l
RT: 2.55 min Scan# 205
Delta R.T. 0.01 min
Lab File: VF062415.D
Acq: 10 May 2019 10:40

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 219742
Ion Ratio Lower Upper
73 100
57 18.6 13.7 20.5

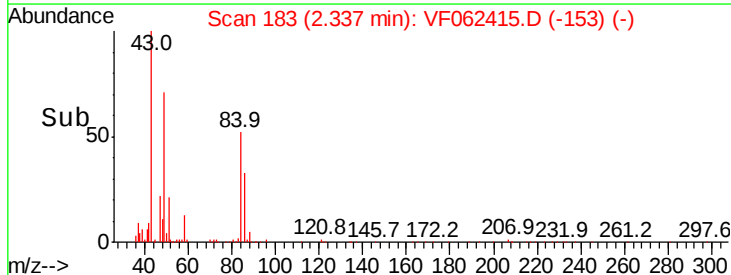
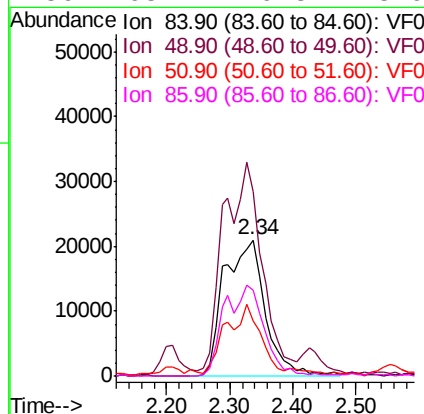
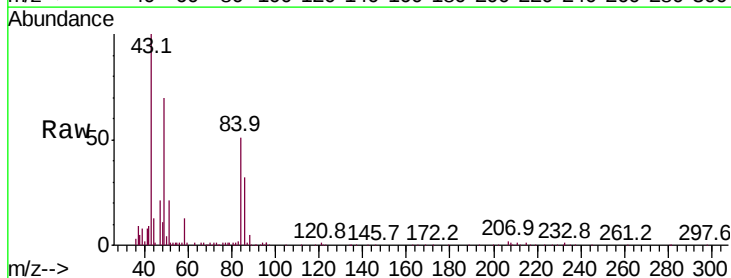
Manual Integrations
APPROVED

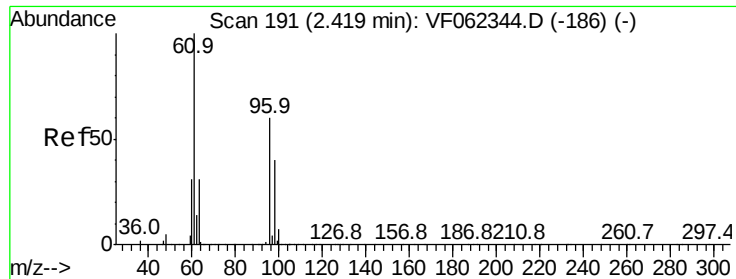
MMDadoda
5/11/2019 3:54:03 PM



#20
Methylene Chloride
Concen: 42.390 ug/l
RT: 2.34 min Scan# 183
Delta R.T. -0.00 min
Lab File: VF062415.D
Acq: 10 May 2019 10:40

Tgt Ion: 84 Resp: 95445
Ion Ratio Lower Upper
84 100
49 132.4 117.5 176.3
51 38.8 37.0 55.4
86 63.2 49.3 73.9





#21

trans-1,2-Dichloroethene

Concen: 42.368 ug/l

RT: 2.43 min Scan# 192

Delta R.T. 0.01 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

Instrument :

MSVOA_F

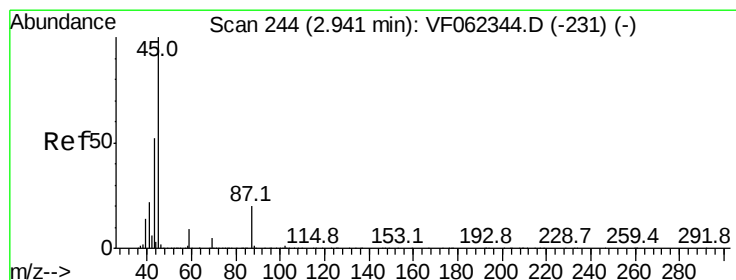
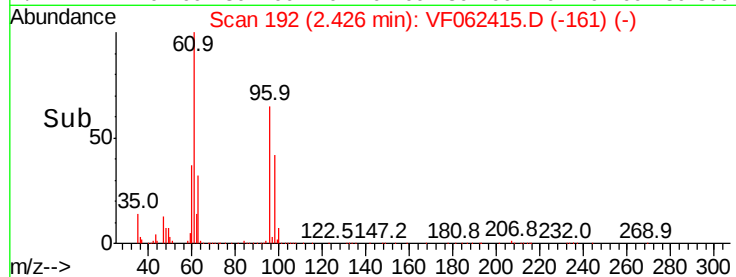
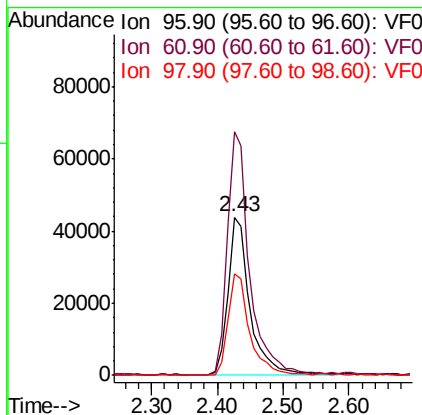
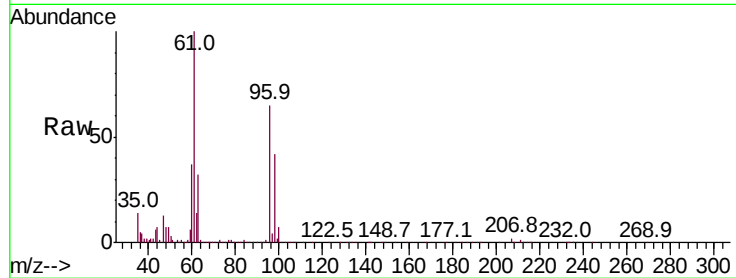
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	100746
Ion Ratio	Lower	Upper	
96	100		
61	154.8	133.2	199.8
98	64.1	53.1	79.7

Manual Integrations
APPROVED

MMDadoda
5/11/2019 3:54:03 PM



#22

Diisopropyl ether

Concen: 43.020 ug/l

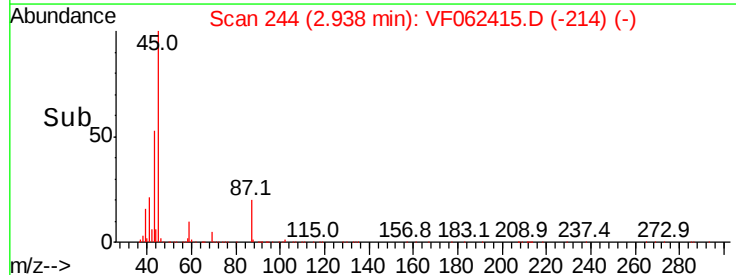
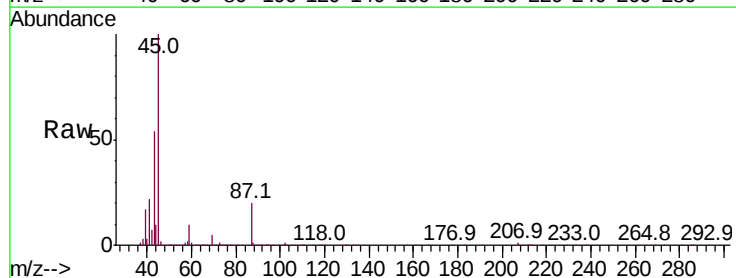
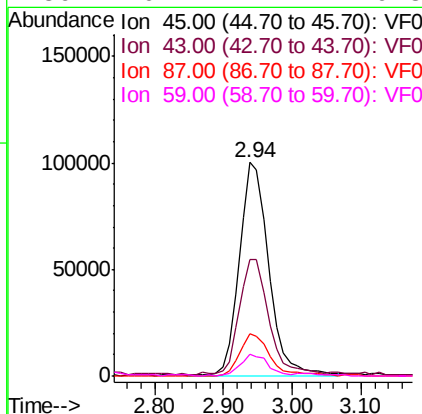
RT: 2.94 min Scan# 244

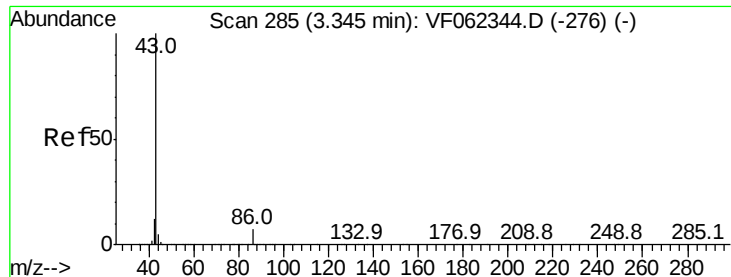
Delta R.T. -0.00 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

Tgt Ion:	45	Resp:	296431
Ion Ratio	Lower	Upper	
45	100		
43	53.7	41.4	62.0
87	19.7	15.8	23.6
59	10.1	7.2	10.8





#23

Vinyl Acetate

Concen: 214.635 ug/l

RT: 3.35 min Scan# 286

Delta R.T. 0.01 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 659150

Ion Ratio Lower Upper

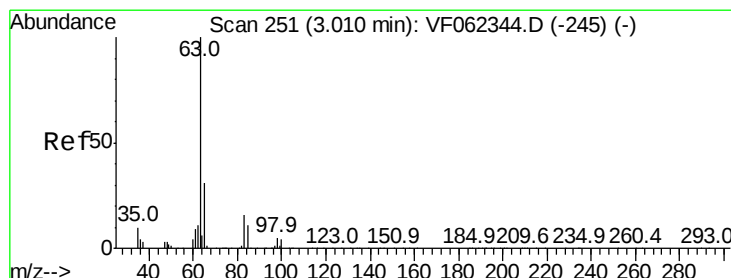
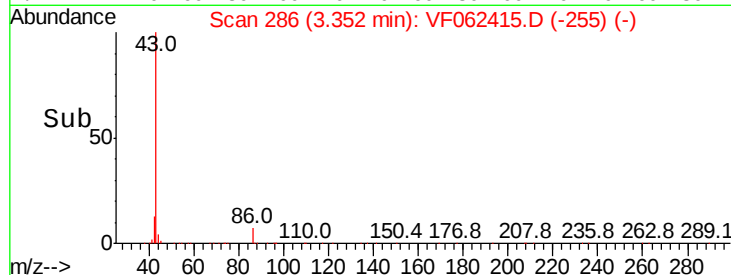
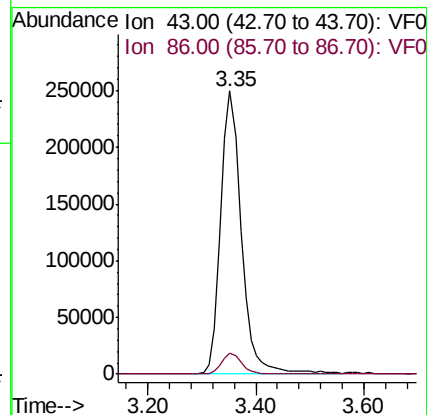
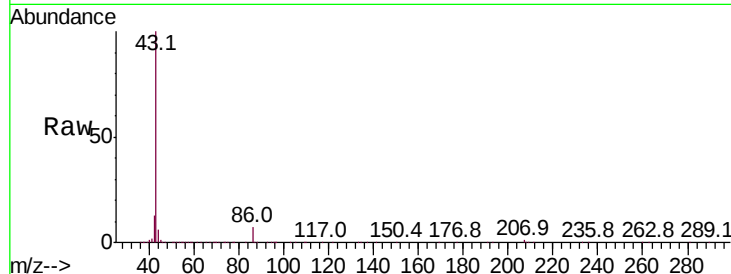
43 100

86 7.4 5.7 8.5

Manual Integrations
APPROVED

MMDadoda

5/11/2019 3:54:03 PM



#24

1,1-Dichloroethane

Concen: 46.702 ug/l

RT: 3.02 min Scan# 252

Delta R.T. 0.01 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

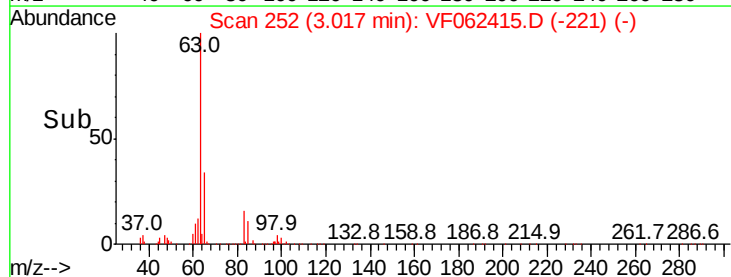
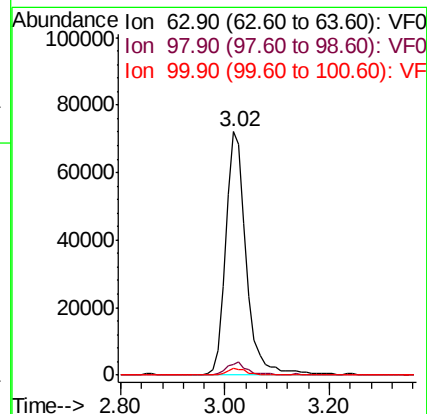
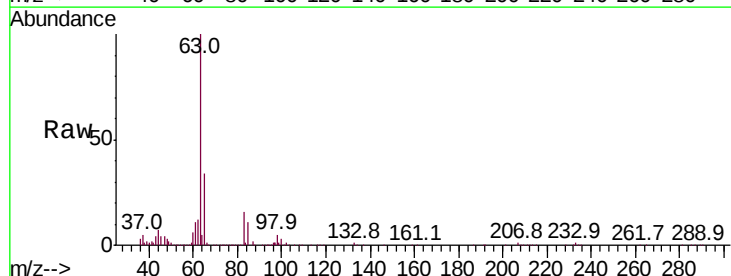
Tgt Ion: 63 Resp: 194491

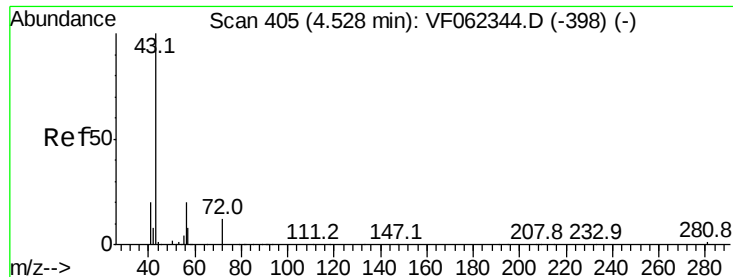
Ion Ratio Lower Upper

63 100

98 4.6 2.6 8.0

100 2.9 1.8 5.4





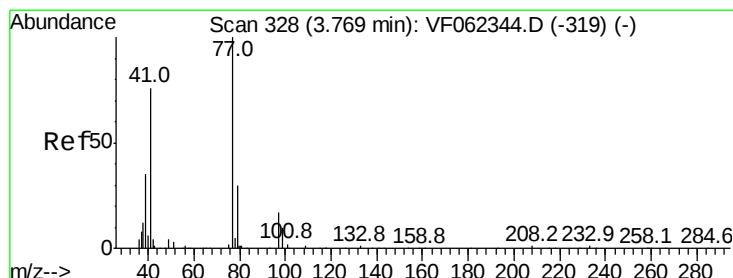
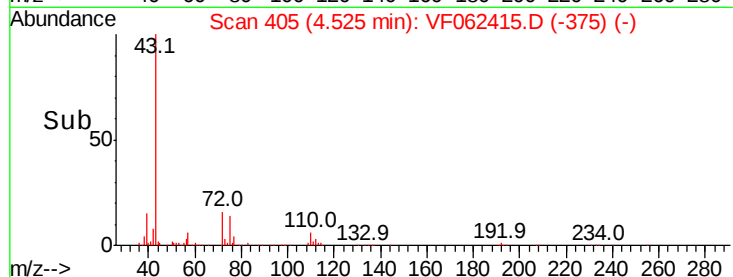
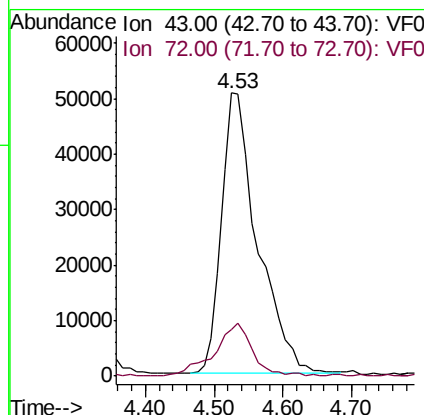
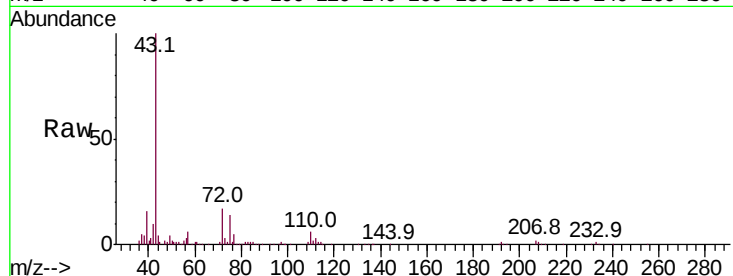
#25
2-Butanone
Concen: 235.171 ug/l
RT: 4.53 min Scan# 405
Delta R.T. -0.00 min
Lab File: VF062415.D
Acq: 10 May 2019 10:40

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
72	16.3	14.2	21.4

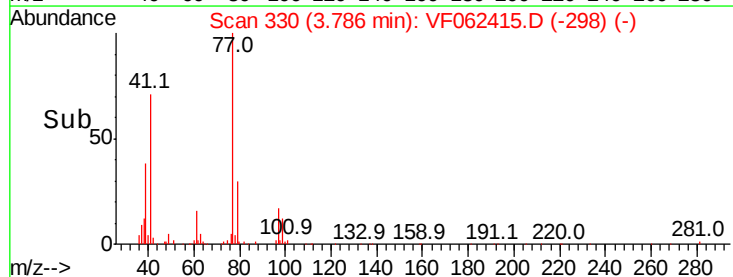
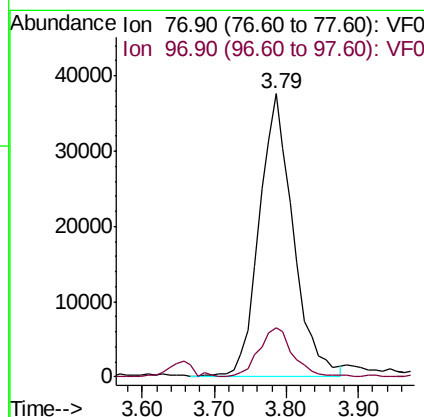
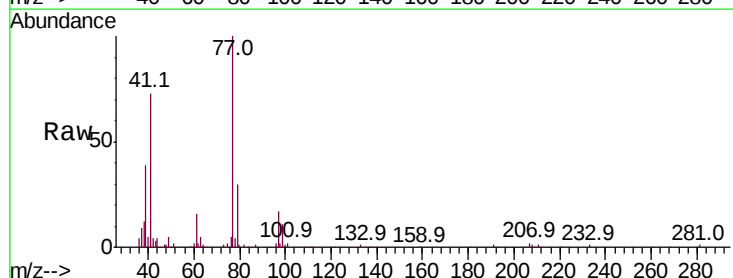
Manual Integrations
APPROVED

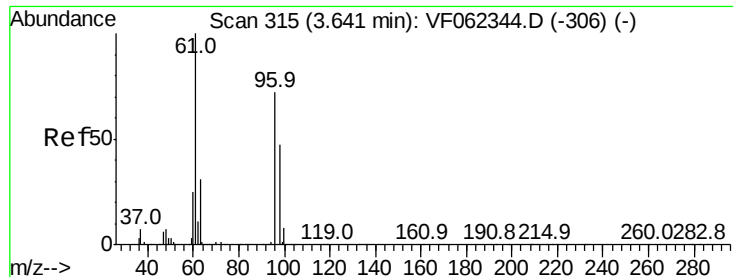
MMDadoda
5/11/2019 3:54:03 PM



#26
2,2-Dichloropropane
Concen: 52.749 ug/l
RT: 3.79 min Scan# 330
Delta R.T. 0.02 min
Lab File: VF062415.D
Acq: 10 May 2019 10:40

Tgt Ion	Ratio	Lower	Upper
77	100		
97	17.8	9.5	28.5





#27

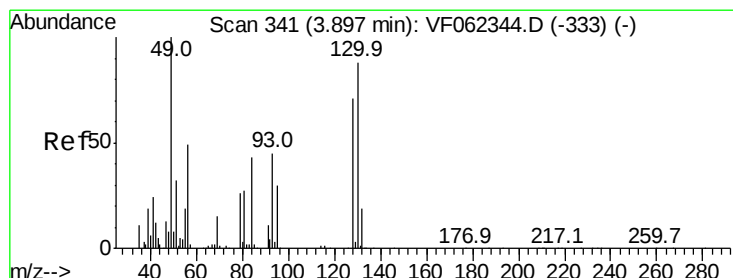
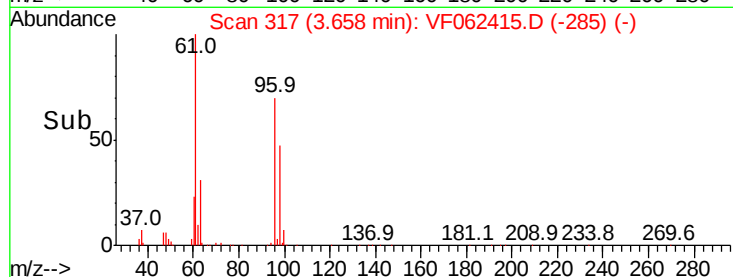
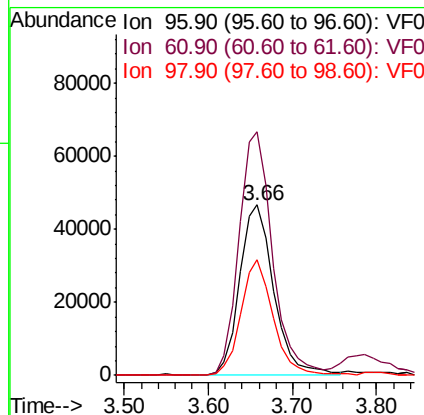
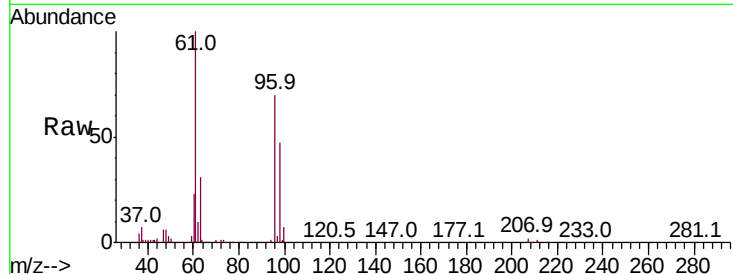
cis-1,2-Dichloroethene
Concen: 44.717 ug/l
RT: 3.66 min Scan# 317
Delta R.T. 0.02 min
Lab File: VF062415.D
Acq: 10 May 2019 10:40

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	132916		
61	139.7	0.0	263.0	
98	64.1	0.0	130.8	

Manual Integrations
APPROVED

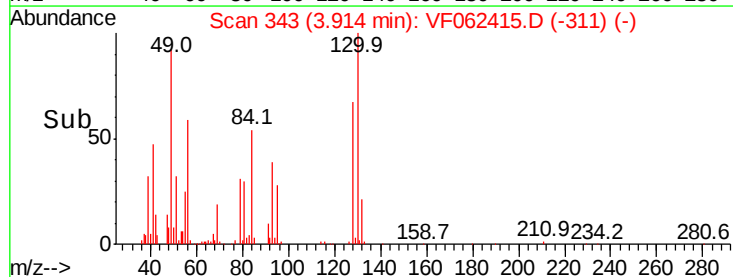
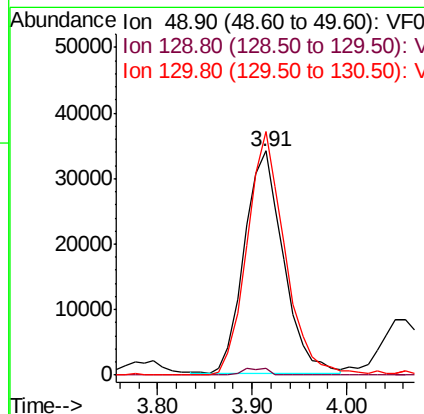
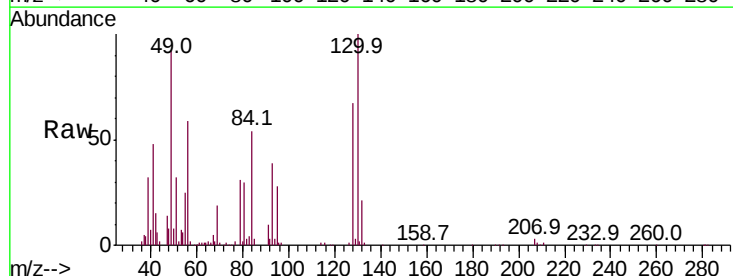
MMDadoda
5/11/2019 3:54:03 PM

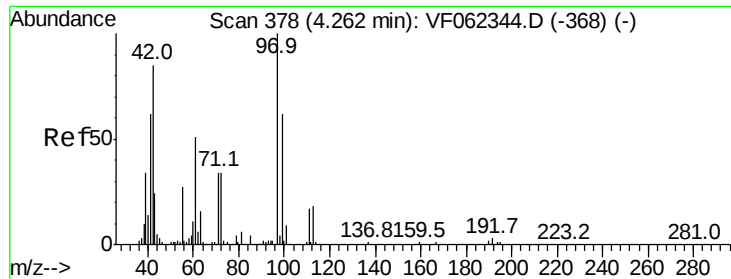


#28

Bromochloromethane
Concen: 51.274 ug/l
RT: 3.91 min Scan# 343
Delta R.T. 0.02 min
Lab File: VF062415.D
Acq: 10 May 2019 10:40

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	96841		
129	2.0	0.0	2.2	
130	107.2	79.4	119.0	





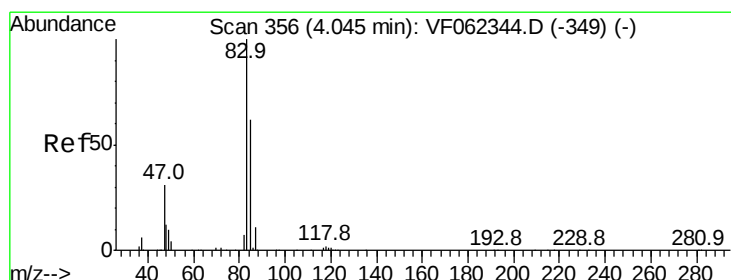
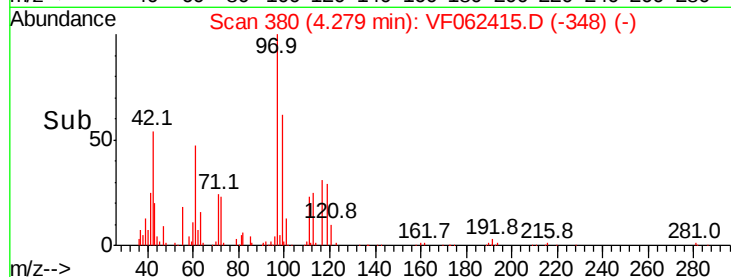
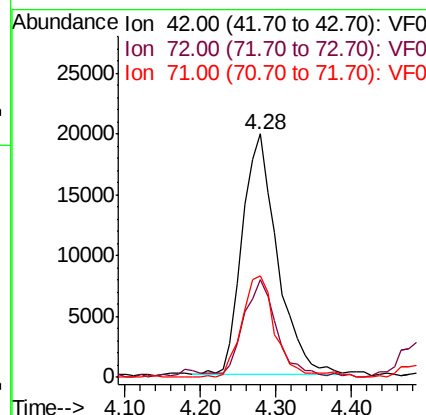
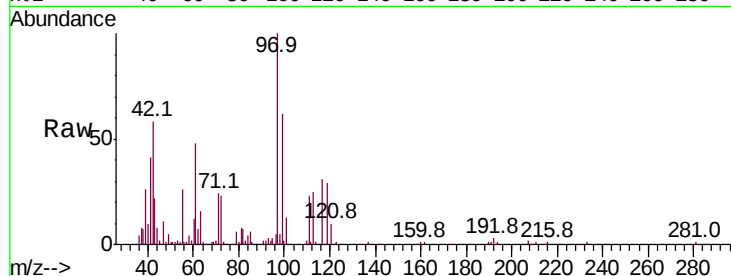
#29
Tetrahydrofuran
Concen: 176.157 ug/l
RT: 4.28 min Scan# 380
Delta R.T. 0.02 min
Lab File: VF062415.D
Acq: 10 May 2019 10:40

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.3	31.4	47.0
71	39.6	31.7	47.5

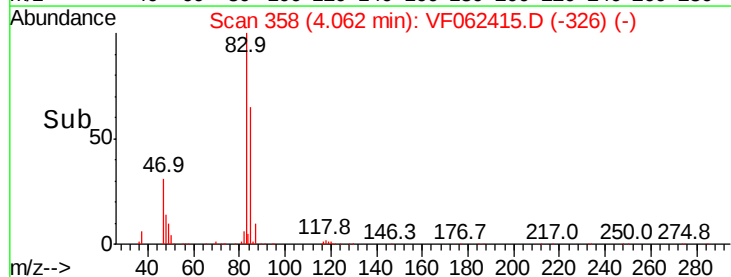
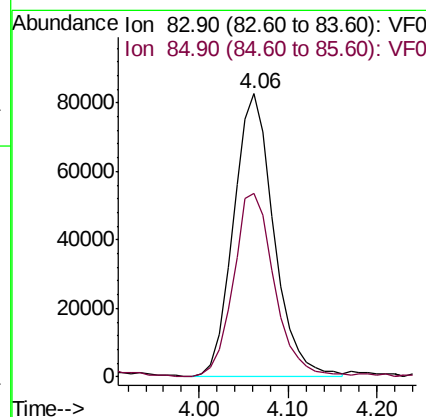
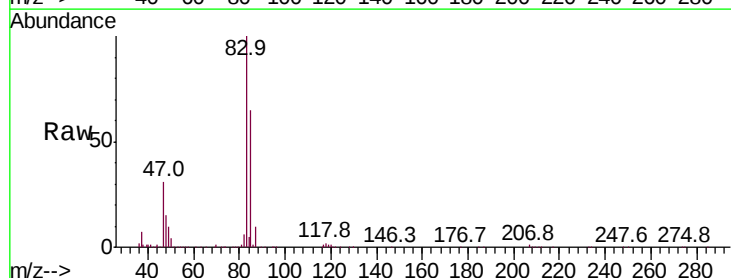
Manual Integrations
APPROVED

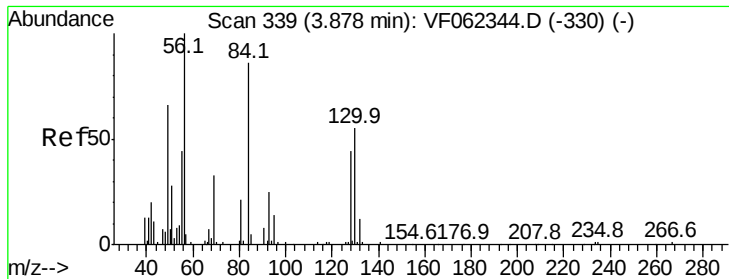
MMDadoda
5/11/2019 3:54:03 PM



#30
Chloroform
Concen: 46.298 ug/l
RT: 4.06 min Scan# 358
Delta R.T. 0.02 min
Lab File: VF062415.D
Acq: 10 May 2019 10:40

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.6	49.6	74.4





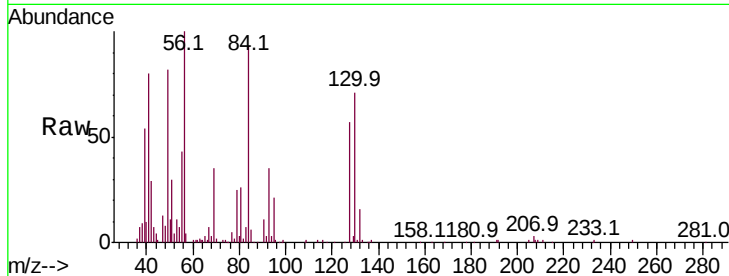
#31
Cyclohexane
Concen: 42.081 ug/l
RT: 3.89 min Scan# 341
Delta R.T. 0.02 min
Lab File: VF062415.D
Acq: 10 May 2019 10:40

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

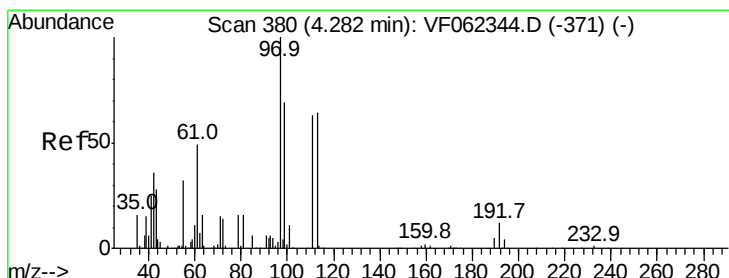
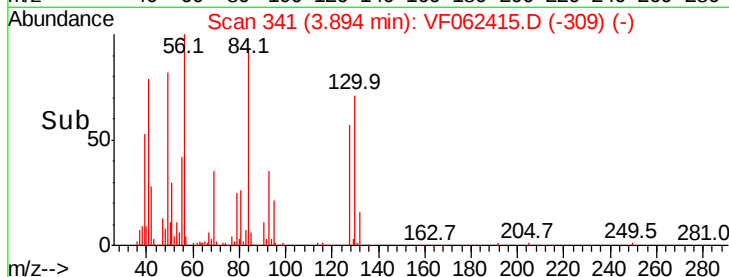
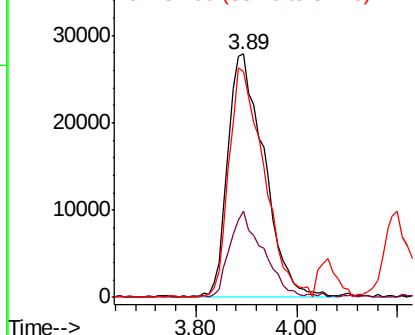
Tot Ion	Ratio	Lower	Upper
56	100		
69	35.2	26.4	39.6
84	92.5	69.0	103.6

Manual Integrations
APPROVED

MMDadoda
5/11/2019 3:54:03 PM

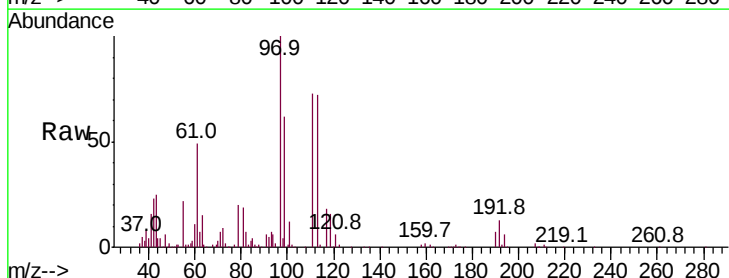


Abundance Ion 56.00 (55.70 to 56.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 84.00 (83.70 to 84.70): VF0

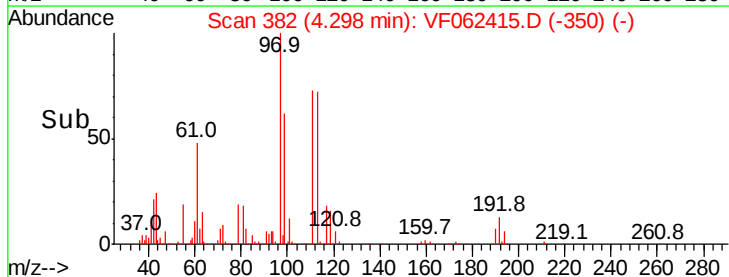
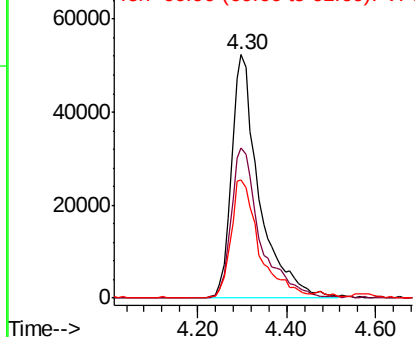


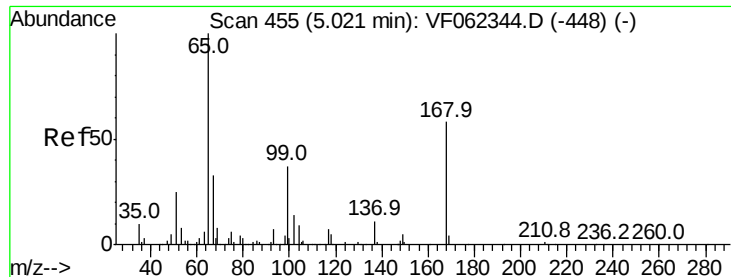
#32
1,1,1-Trichloroethane
Concen: 47.034 ug/l
RT: 4.30 min Scan# 382
Delta R.T. 0.02 min
Lab File: VF062415.D
Acq: 10 May 2019 10:40

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.1	52.6	78.8
61	50.3	39.4	59.0



Abundance Ion 96.90 (96.60 to 97.60): VF0
Ion 98.90 (98.60 to 99.60): VF0
Ion 60.90 (60.60 to 61.60): VF0





#33

1,2-Dichloroethane-d4

Concen: 51.838 ug/l

RT: 5.04 min Scan# 457

Delta R.T. 0.02 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 65 Resp: 159473

Ion Ratio Lower Upper

65 100

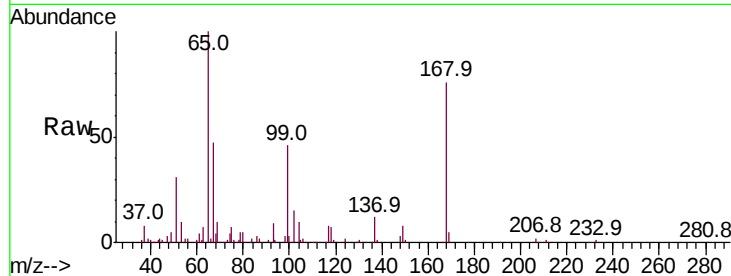
67 45.8 0.0 85.8

Manual Integrations

APPROVED

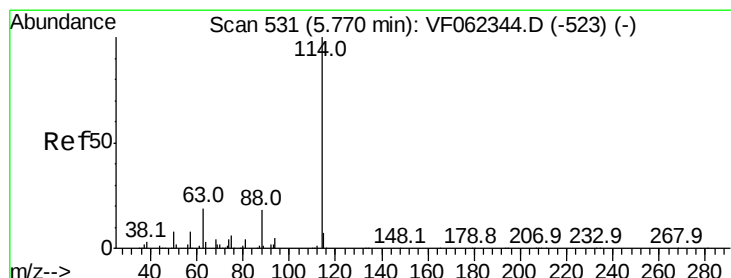
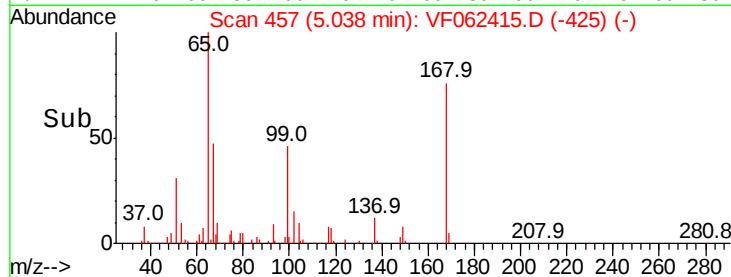
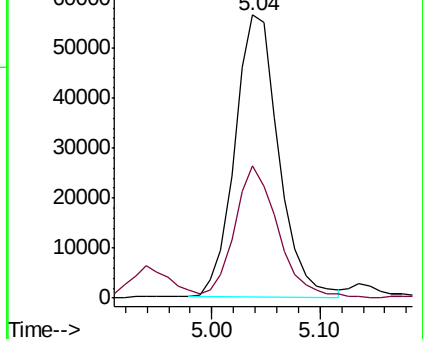
MMDadoda

5/11/2019 3:54:03 PM



Abundance Ion 64.90 (64.60 to 65.60): VF0

Ion 66.90 (66.60 to 67.60): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.79 min Scan# 533

Delta R.T. 0.02 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

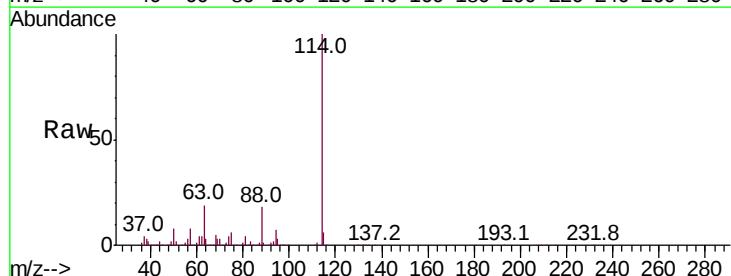
Tgt Ion:114 Resp: 407078

Ion Ratio Lower Upper

114 100

63 19.0 0.0 37.4

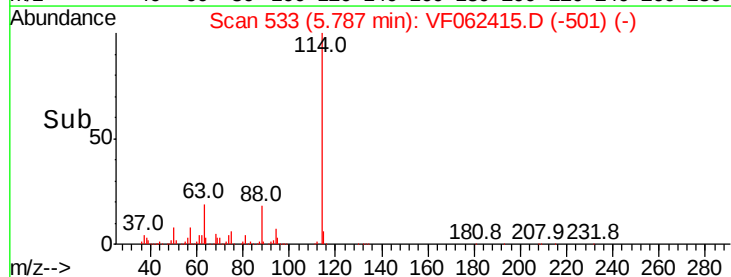
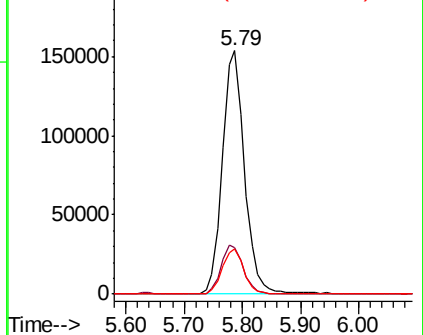
88 18.3 0.0 36.4

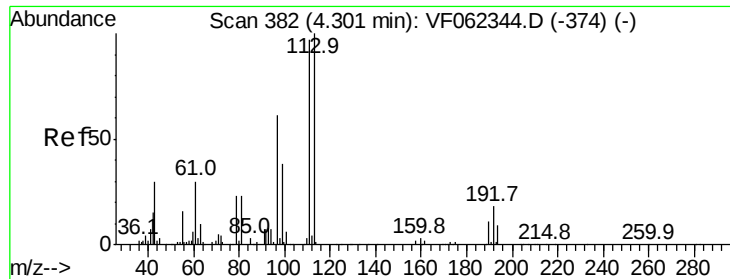


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 87.90 (87.60 to 88.60): VF0





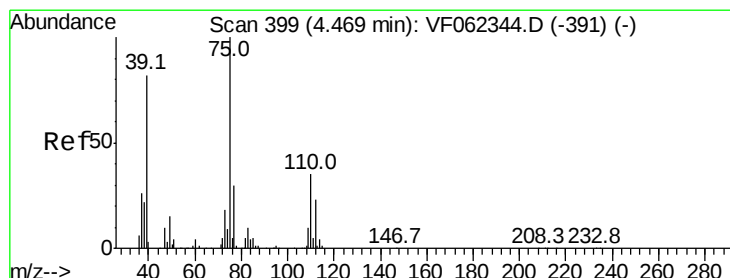
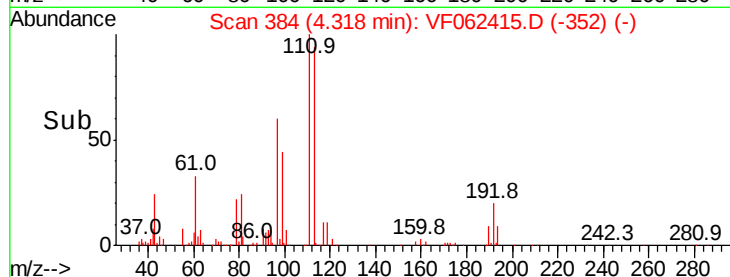
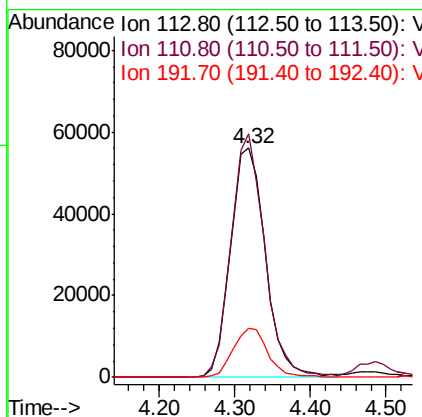
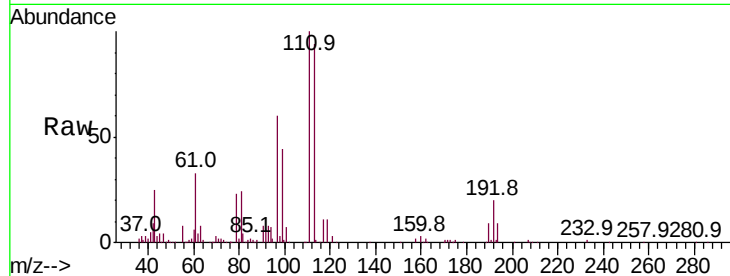
#35
 Dibromofluoromethane
 Concen: 55.576 ug/l
 RT: 4.32 min Scan# 384
 Delta R.T. 0.02 min
 Lab File: VF062415.D
 Acq: 10 May 2019 10:40

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	180239		
111	101.7	79.4	119.0	
192	21.3	16.0	24.0	

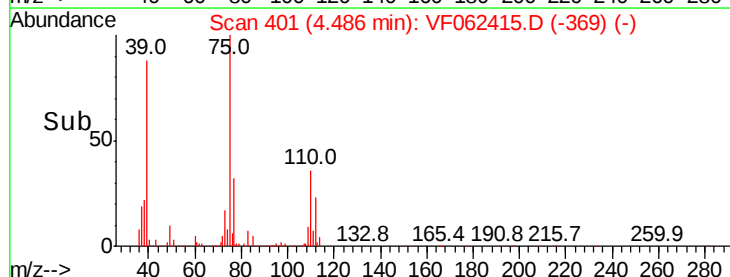
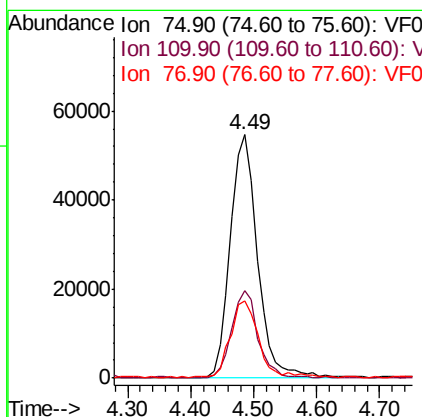
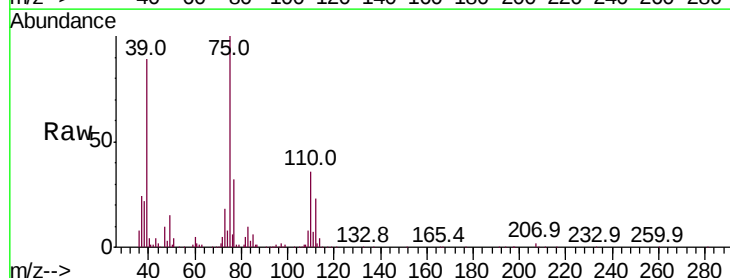
Manual Integrations
 APPROVED

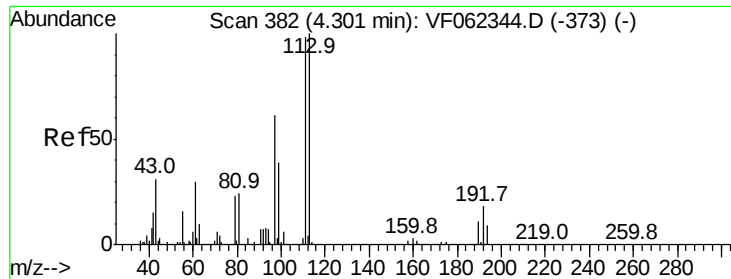
MMDadoda
 5/11/2019 3:54:03 PM



#36
 1,1-Dichloropropene
 Concen: 46.845 ug/l
 RT: 4.49 min Scan# 401
 Delta R.T. 0.02 min
 Lab File: VF062415.D
 Acq: 10 May 2019 10:40

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	163816		
110	34.9	17.2	51.5	
77	32.7	25.2	37.8	





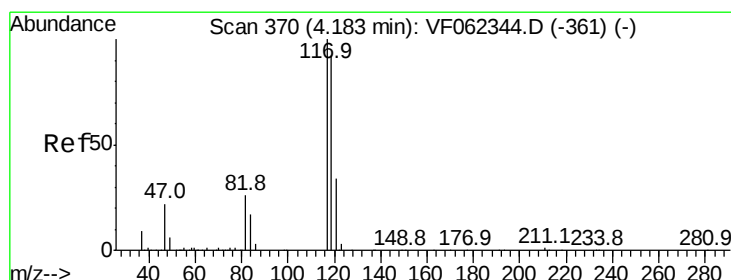
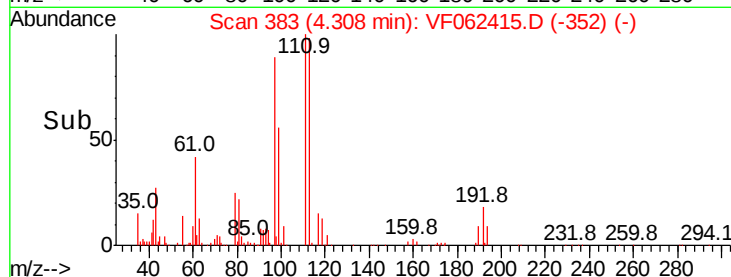
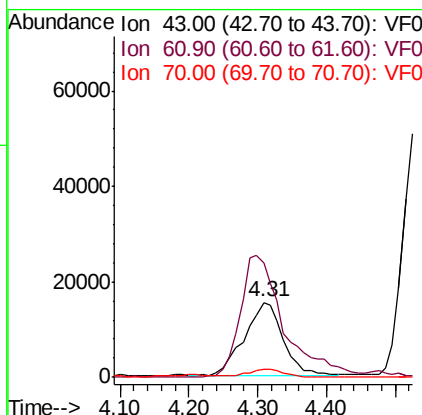
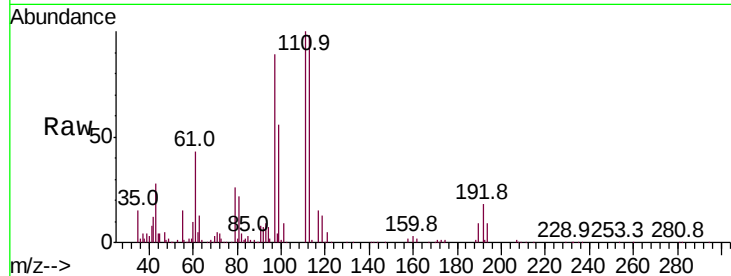
#37
Ethyl Acetate
Concen: 44.377 ug/l
RT: 4.31 min Scan# 383
Delta R.T. 0.01 min
Lab File: VF062415.D
Acq: 10 May 2019 10:40

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	186.3	0.0	0.0#
70	9.9	8.2	12.2

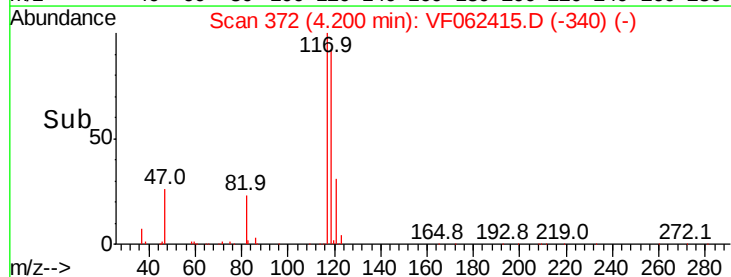
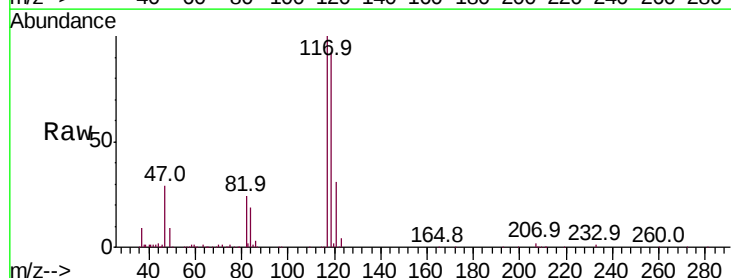
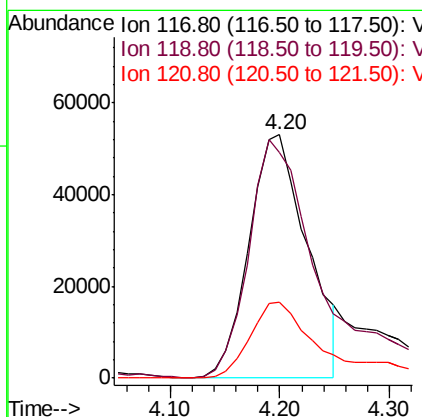
Manual Integrations
APPROVED

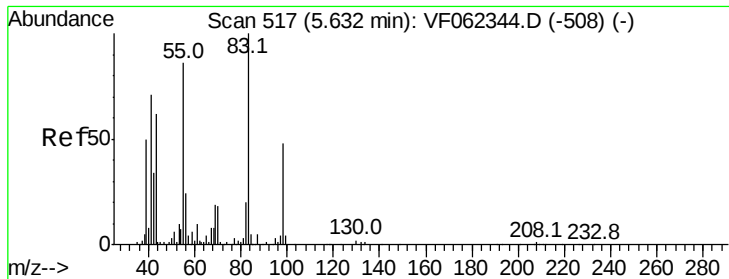
MMDadoda
5/11/2019 3:54:03 PM



#38
Carbon Tetrachloride
Concen: 54.453 ug/l m
RT: 4.20 min Scan# 372
Delta R.T. 0.02 min
Lab File: VF062415.D
Acq: 10 May 2019 10:40

Tgt Ion	Ratio	Lower	Upper
117	100		
119	92.4	73.4	110.2
121	31.2	27.4	41.0





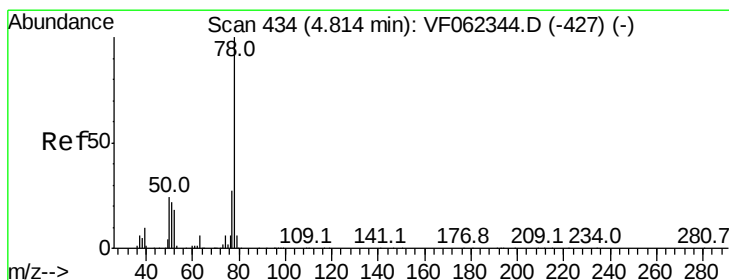
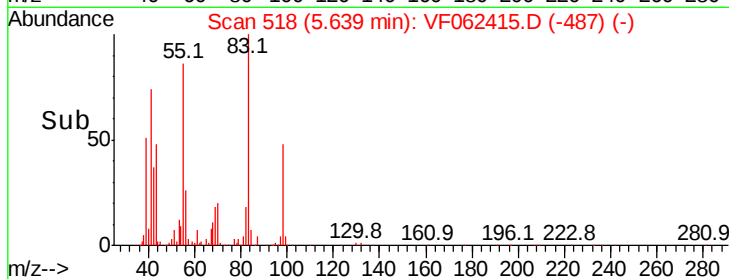
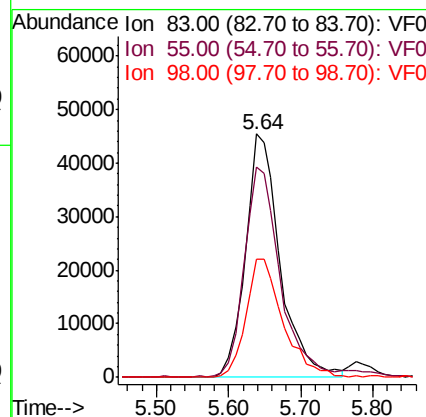
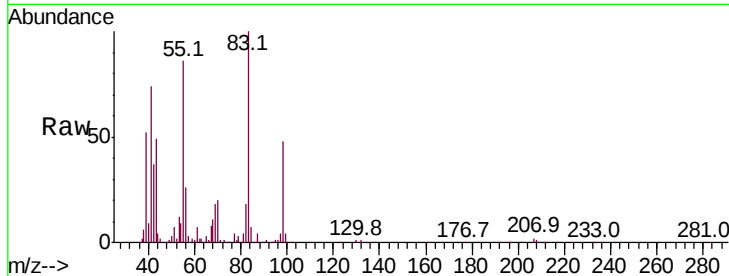
#39
Methvlcvclohexane
Concen: 43.408 ug/l
RT: 5.64 min Scan# 518
Delta R.T. 0.01 min
Lab File: VF062415.D
Acq: 10 May 2019 10:40

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	86.0	69.0	103.6
98	48.4	38.6	58.0

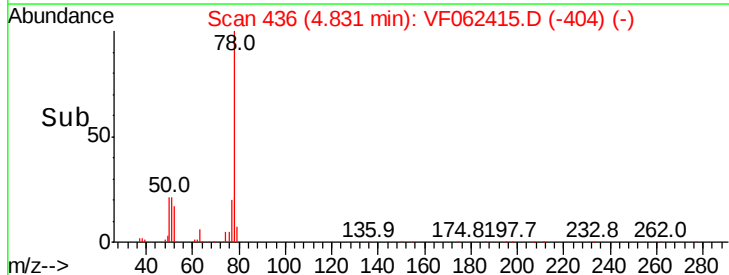
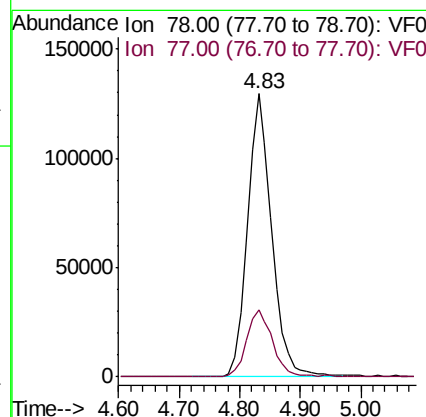
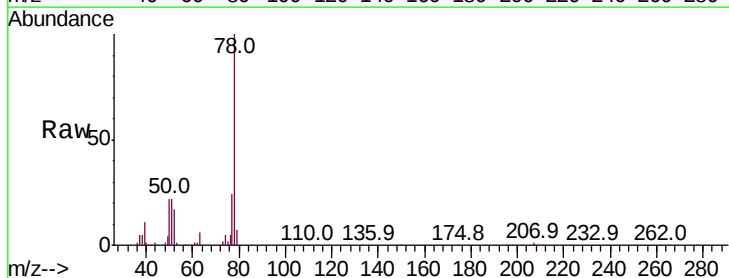
Manual Integrations
APPROVED

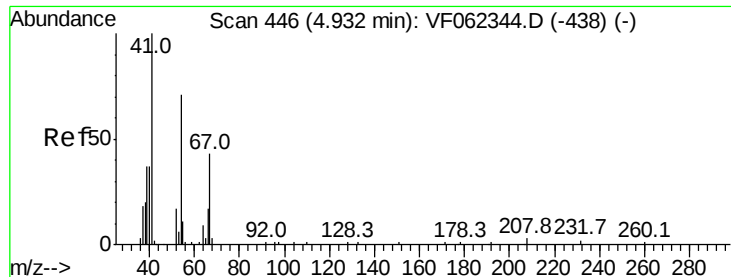
MMDadoda
5/11/2019 3:54:03 PM



#40
Benzene
Concen: 46.397 ug/l
RT: 4.83 min Scan# 436
Delta R.T. 0.02 min
Lab File: VF062415.D
Acq: 10 May 2019 10:40

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	21.6	32.4





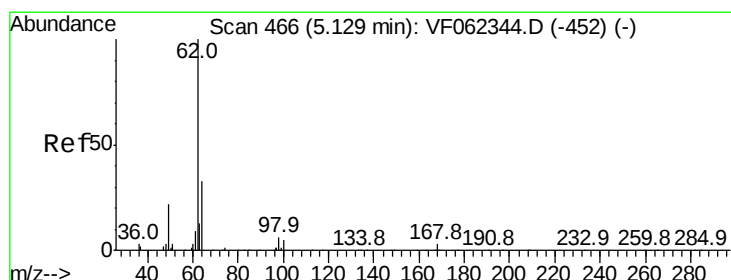
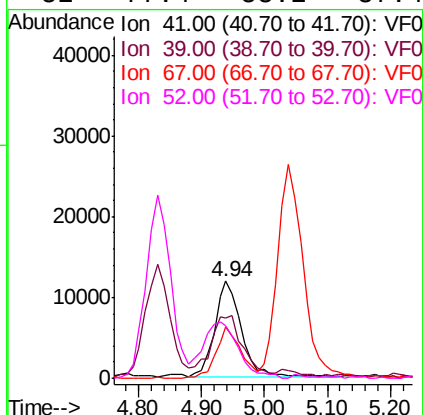
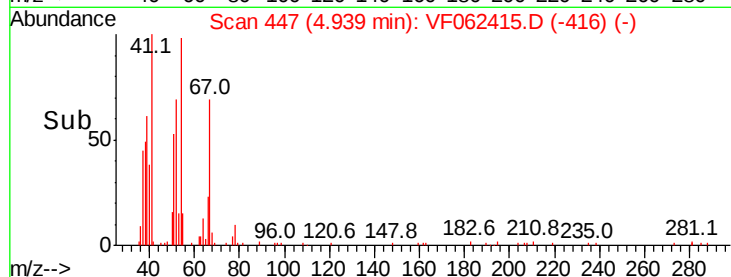
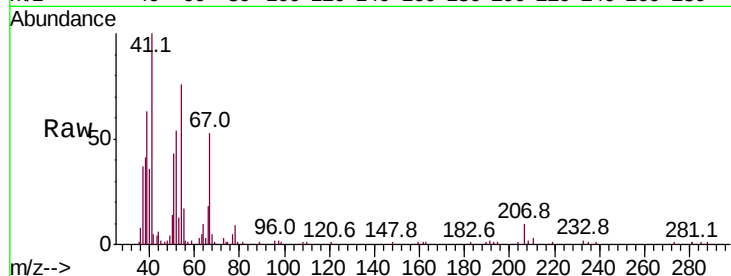
#41
Methacrylonitrile
Concen: 41.987 ug/l
RT: 4.94 min Scan# 447
Delta R.T. 0.01 min
Lab File: VF062415.D
Acq: 10 May 2019 10:40

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	41	Resp	35206
Ion	Ratio	Lower	Upper
41	100		
39	75.3	54.3	81.5
67	50.1	37.8	56.8
52	77.4	58.2	87.4

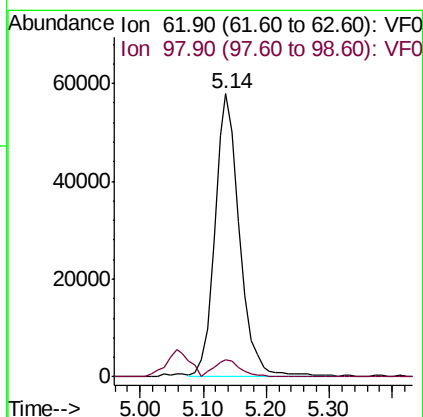
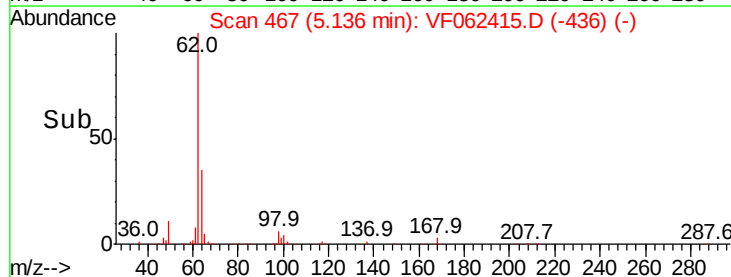
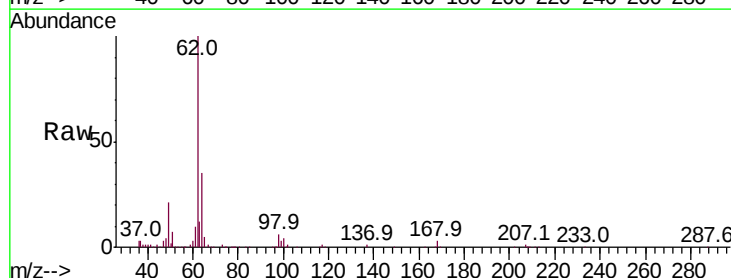
Manual Integrations
APPROVED

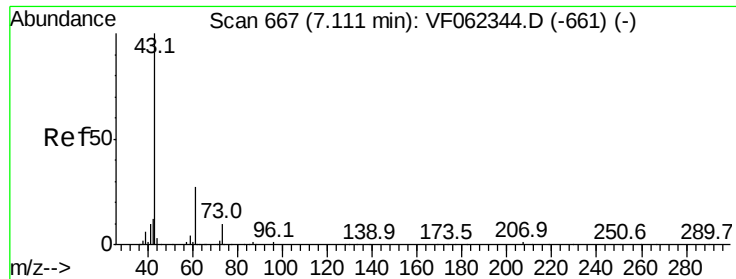
MMDadoda
5/11/2019 3:54:03 PM



#42
1,2-Dichloroethane
Concen: 48.694 ug/l
RT: 5.14 min Scan# 467
Delta R.T. 0.01 min
Lab File: VF062415.D
Acq: 10 May 2019 10:40

Tgt Ion	62	Resp	156826
Ion	Ratio	Lower	Upper
62	100		
98	6.8	0.0	12.4





#43

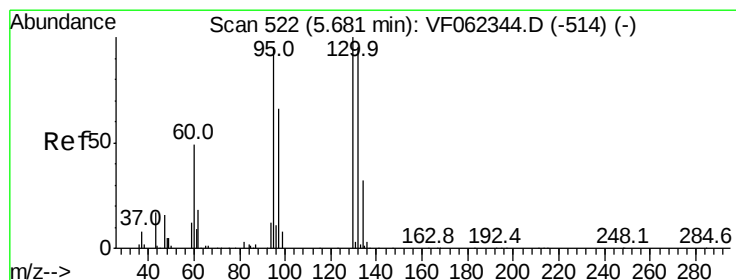
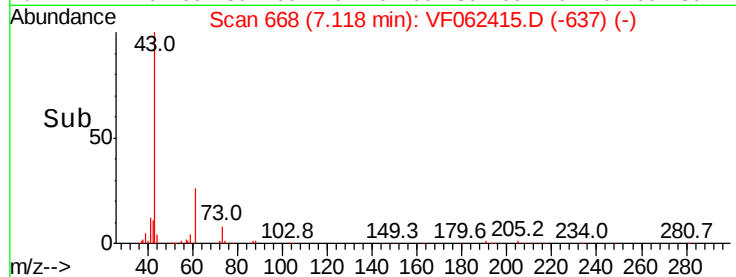
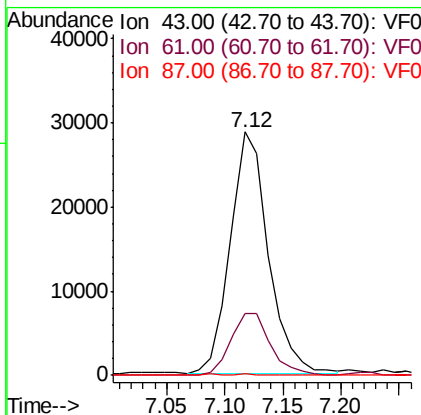
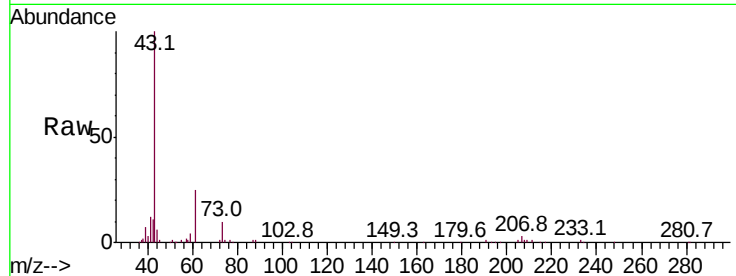
Isopropyl Acetate
 Concen: 41.049 ug/l
 RT: 7.12 min Scan# 668
 Delta R.T. 0.01 min
 Lab File: VF062415.D
 Acq: 10 May 2019 10:40

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	26.8	22.8	34.2
87	0.2	0.6	1.0

Manual Integrations
 APPROVED

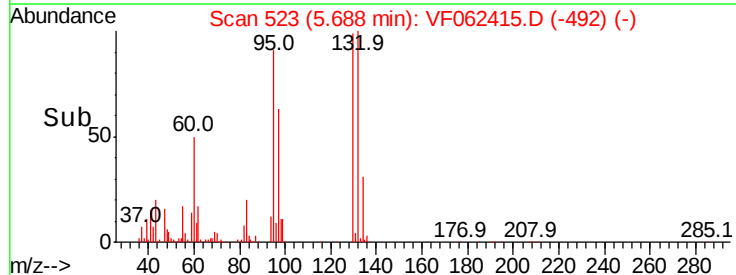
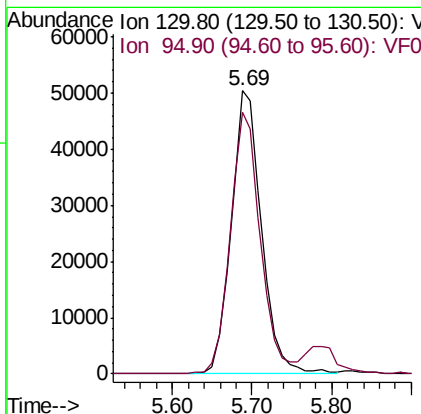
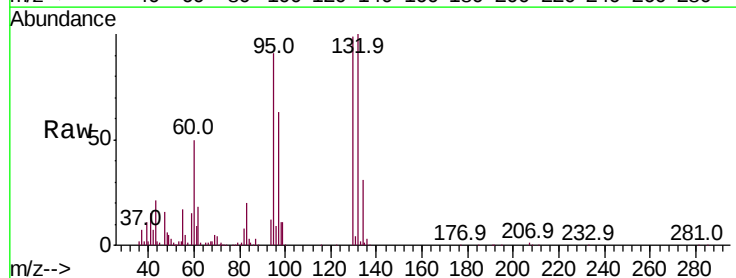
MMDadoda
 5/11/2019 3:54:03 PM

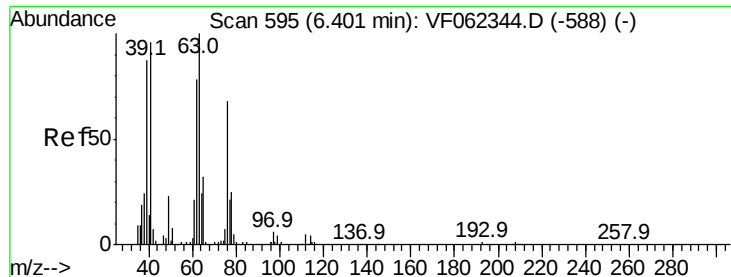


#44

Trichloroethene
 Concen: 46.893 ug/l
 RT: 5.69 min Scan# 523
 Delta R.T. 0.01 min
 Lab File: VF062415.D
 Acq: 10 May 2019 10:40

Tgt Ion	Ratio	Lower	Upper
130	100		
95	92.4	0.0	189.0





#45

1,2-Dichloropropane

Concen: 49.747 ug/l

RT: 6.42 min Scan# 597

Delta R.T. 0.02 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 86768

Ion Ratio Lower Upper

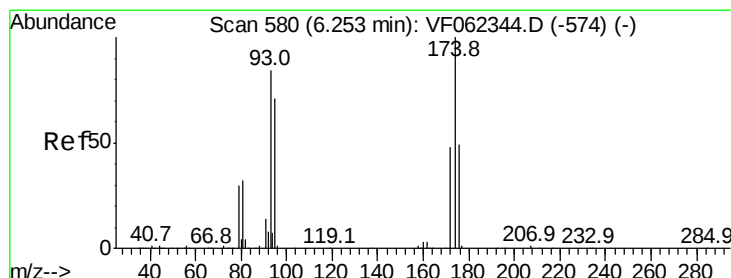
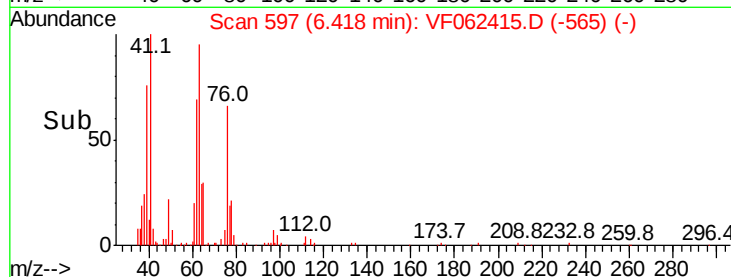
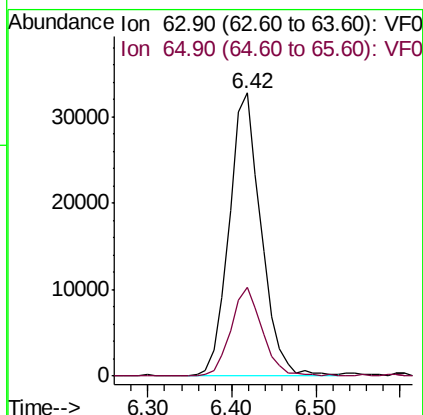
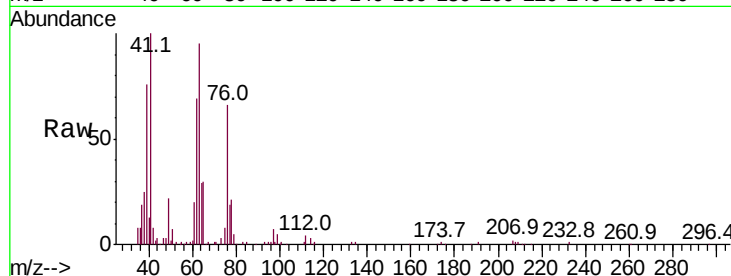
63 100

65 31.4 25.6 38.4

Manual Integrations
APPROVED

MMDadoda

5/11/2019 3:54:03 PM



#46

Dibromomethane

Concen: 48.036 ug/l

RT: 6.27 min Scan# 582

Delta R.T. 0.02 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

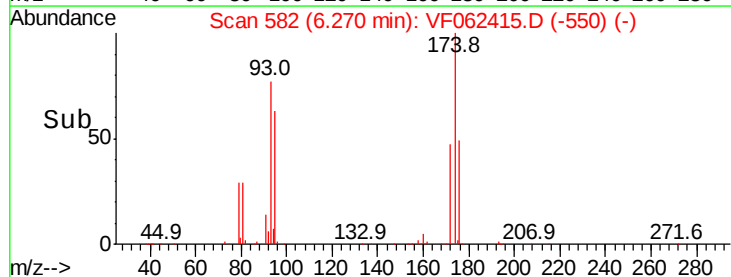
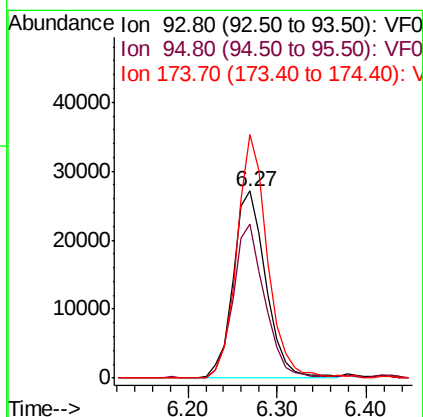
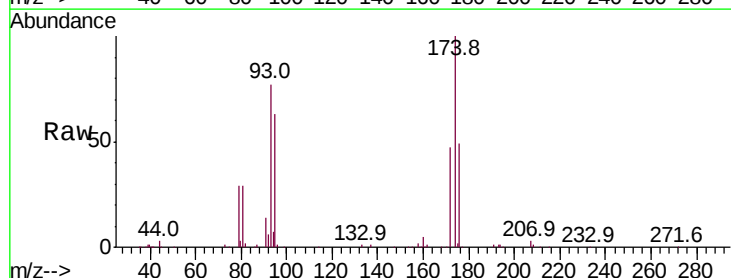
Tgt Ion: 93 Resp: 69467

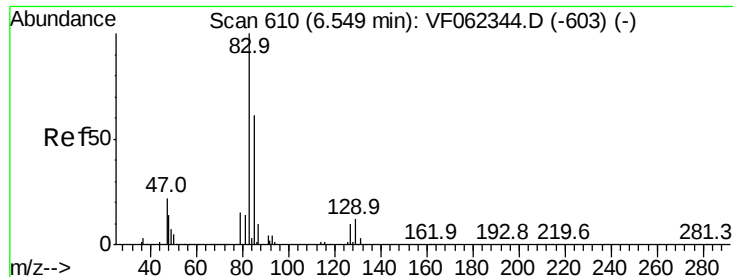
Ion Ratio Lower Upper

93 100

95 79.6 68.4 102.6

174 120.6 99.6 149.4





#47

Bromodichloromethane

Concen: 50.703 ug/l

RT: 6.56 min Scan# 611

Delta R.T. 0.01 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

Instrument :

MSVOA_F

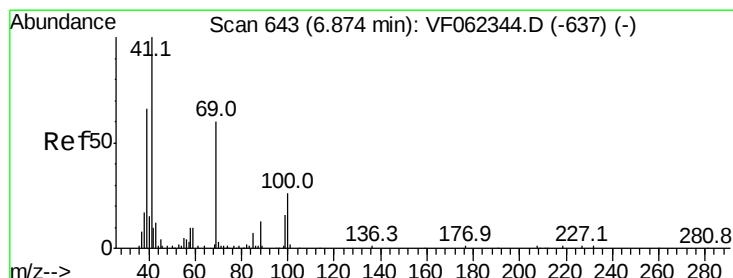
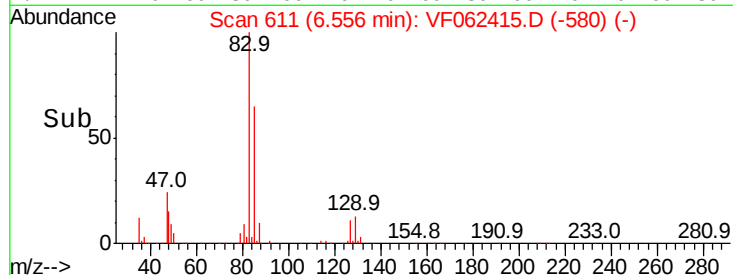
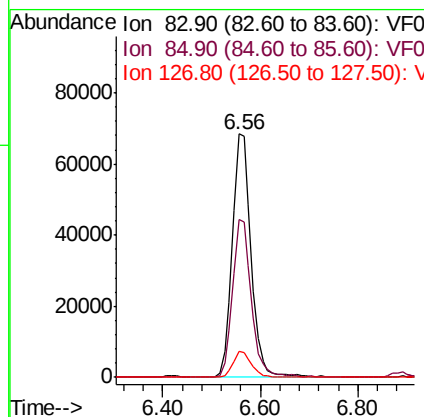
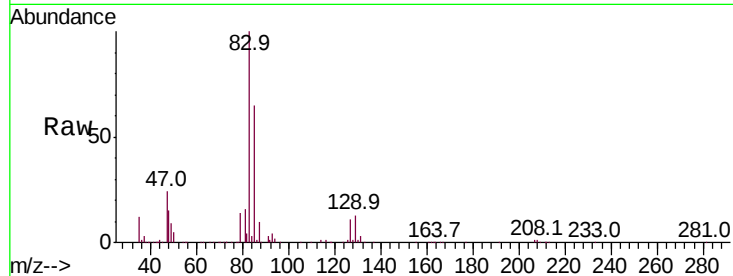
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	183322
Ion Ratio	Lower	Upper	
83	100		
85	65.0	49.1	73.7
127	10.8	7.8	11.8

Manual Integrations
APPROVED

MMDadoda
5/11/2019 3:54:03 PM



#48

Methyl methacrylate

Concen: 45.376 ug/l

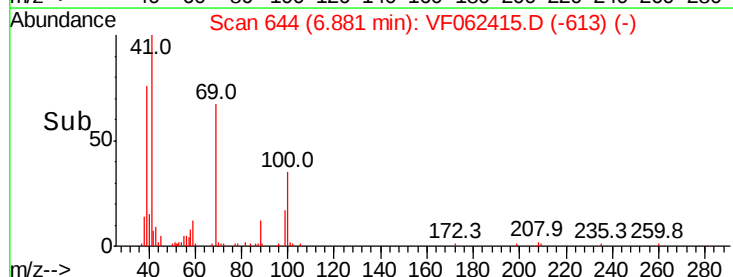
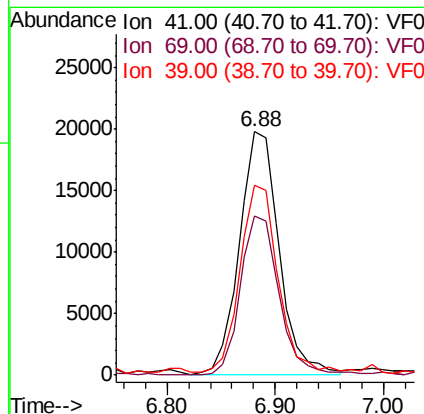
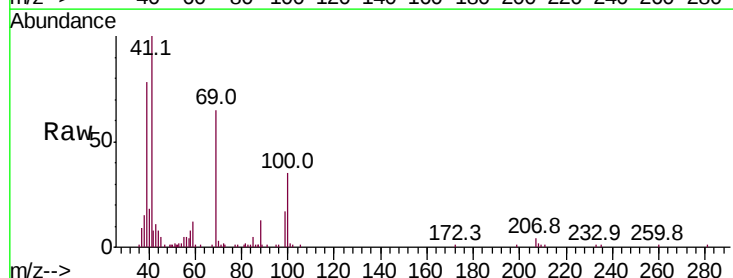
RT: 6.88 min Scan# 644

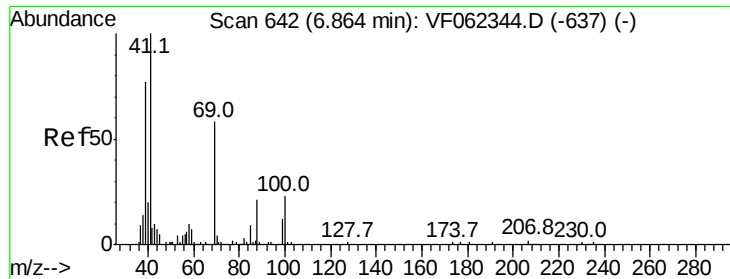
Delta R.T. 0.01 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

Tgt Ion:	41	Resp:	51005
Ion Ratio	Lower	Upper	
41	100		
69	63.3	48.6	72.8
39	72.9	56.1	84.1





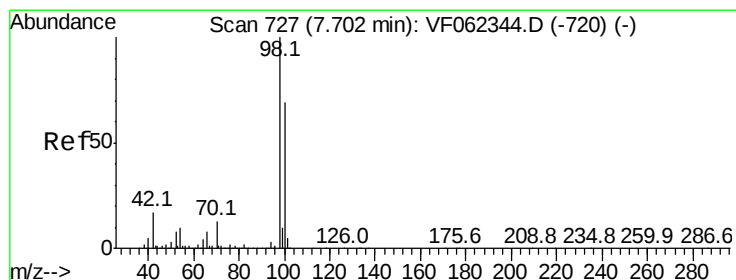
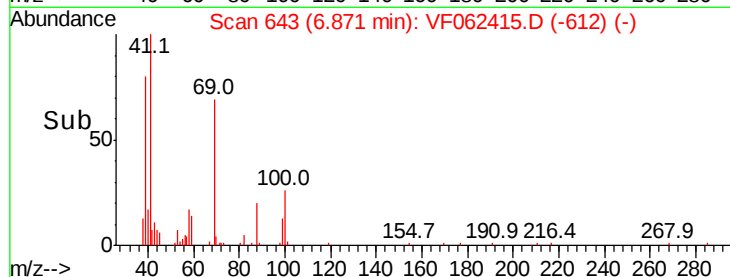
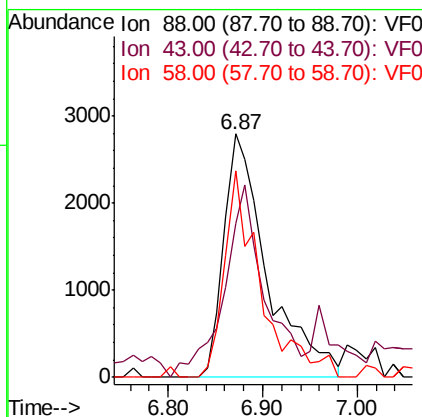
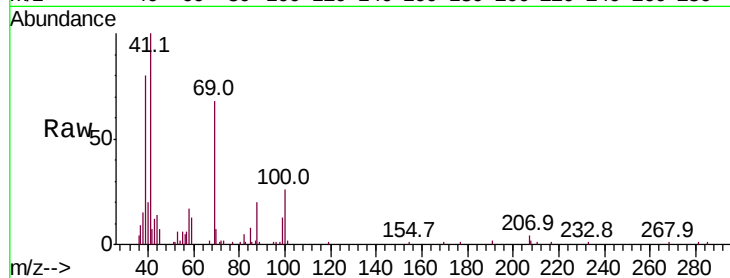
#49
1,4-Dioxane
Concen: 766.106 ug/l
RT: 6.87 min Scan# 643
Delta R.T. 0.01 min
Lab File: VF062415.D
Acq: 10 May 2019 10:40

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	73.5	55.6	83.4
58	70.5	52.8	79.2

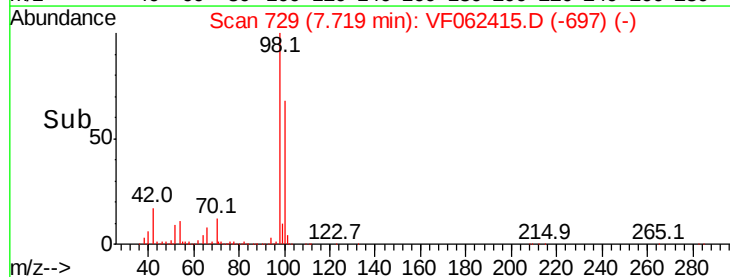
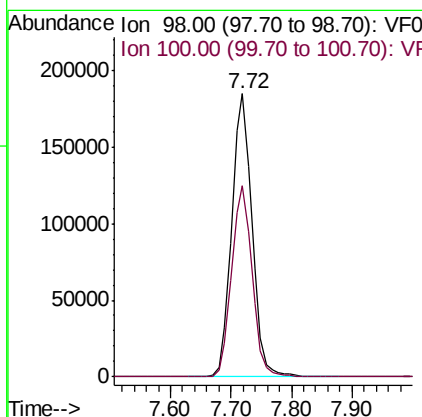
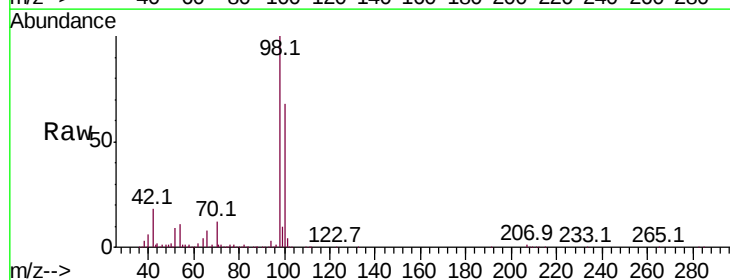
Manual Integrations
APPROVED

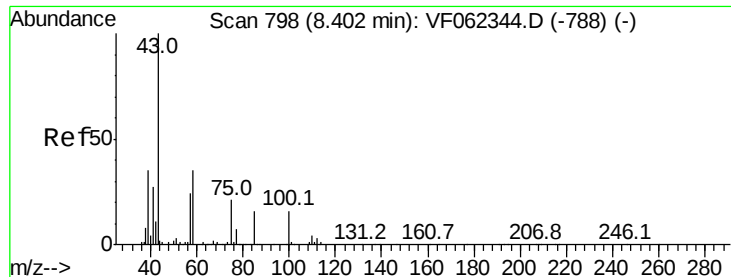
MMDadoda
5/11/2019 3:54:03 PM



#50
Toluene-d8
Concen: 54.996 ug/l
RT: 7.72 min Scan# 729
Delta R.T. 0.02 min
Lab File: VF062415.D
Acq: 10 May 2019 10:40

Tgt Ion	Ratio	Lower	Upper
98	100		
100	67.8	53.3	79.9





#51

4-Methyl-2-Pentanone

Concen: 233.421 ug/l

RT: 8.41 min Scan# 799

Delta R.T. 0.01 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 281332

Ion Ratio Lower Upper

43 100

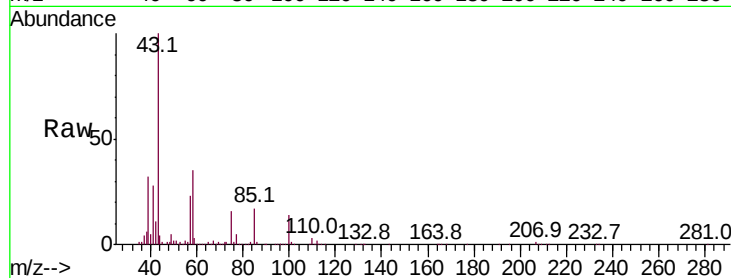
58 34.8 27.8 41.6

Manual Integrations

APPROVED

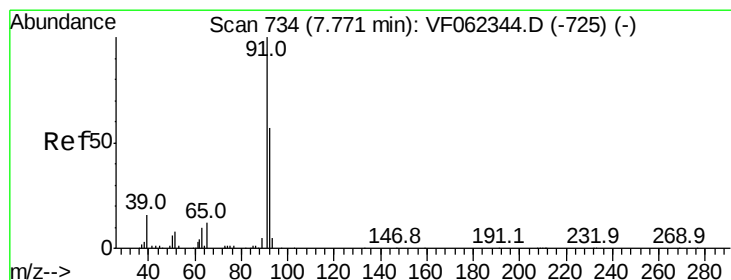
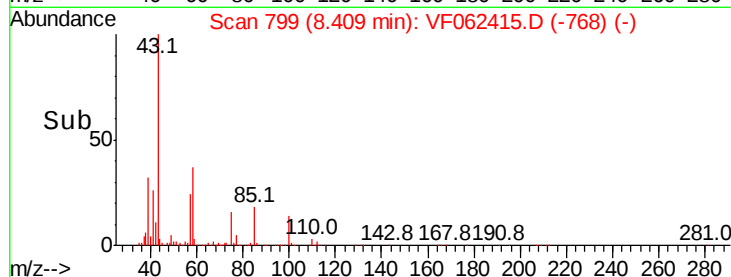
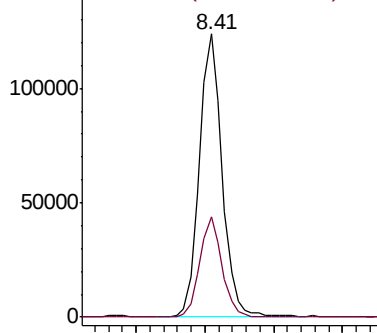
MMDadoda

5/11/2019 3:54:03 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 48.136 ug/l

RT: 7.79 min Scan# 736

Delta R.T. 0.02 min

Lab File: VF062415.D

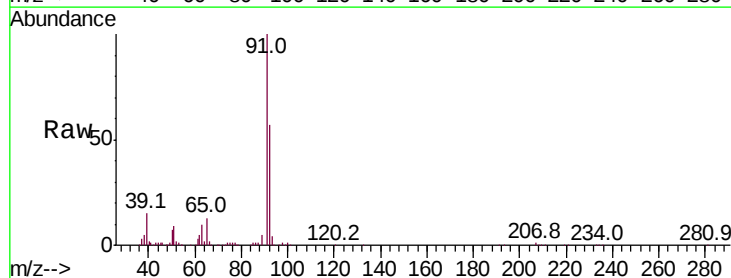
Acq: 10 May 2019 10:40

Tgt Ion: 92 Resp: 228671

Ion Ratio Lower Upper

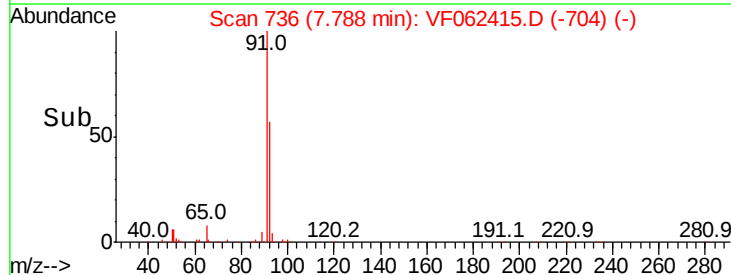
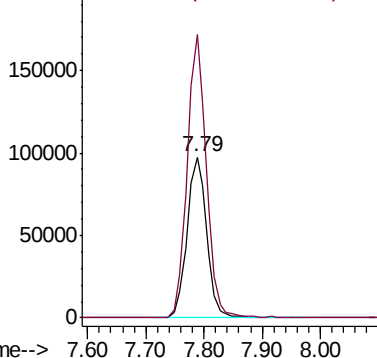
92 100

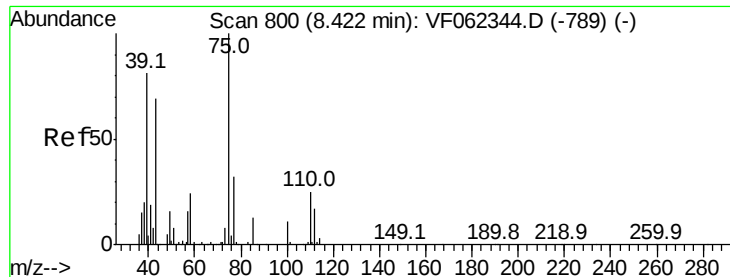
91 171.2 138.7 208.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 51.033 ug/l

RT: 8.43 min Scan# 801

Delta R.T. 0.01 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 139554

Ion Ratio Lower Upper

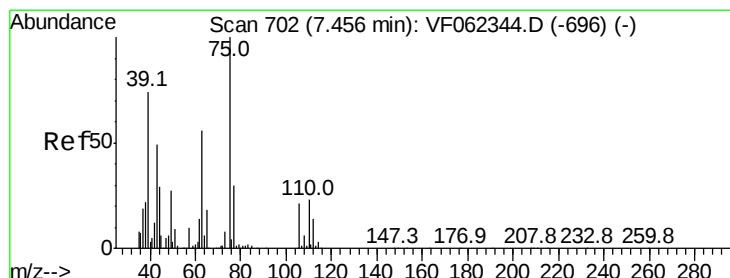
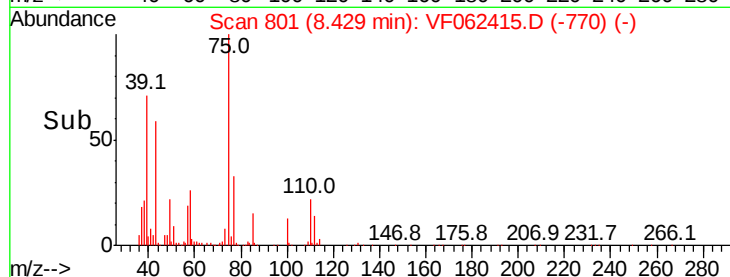
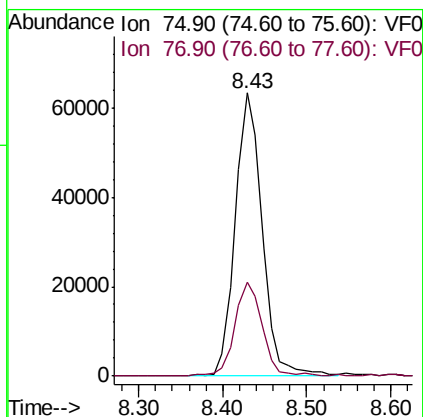
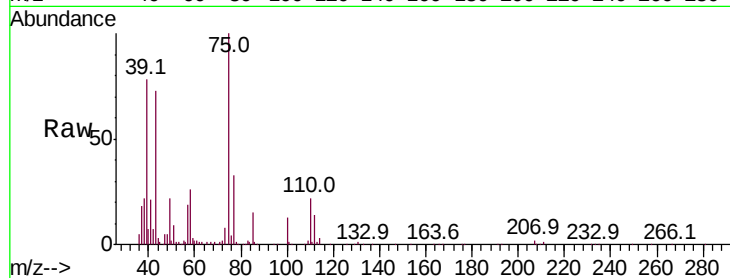
75 100

77 32.9 25.4 38.0

Manual Integrations
APPROVED

MMDadoda

5/11/2019 3:54:03 PM



#54

cis-1,3-Dichloropropene

Concen: 50.058 ug/l

RT: 7.46 min Scan# 703

Delta R.T. 0.01 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

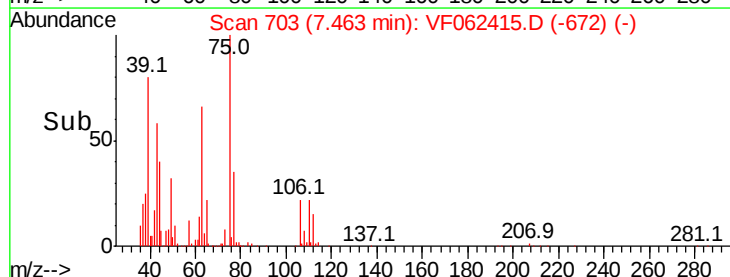
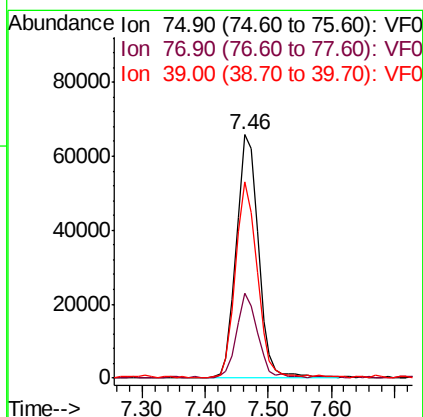
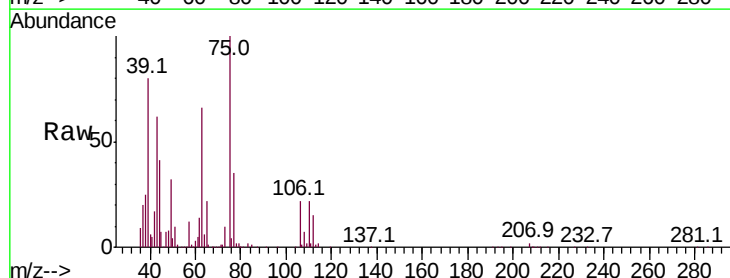
Tgt Ion: 75 Resp: 159312

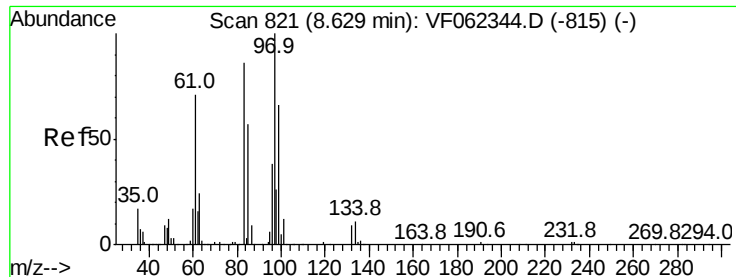
Ion Ratio Lower Upper

75 100

77 34.9 24.0 36.0

39 80.1 58.7 88.1





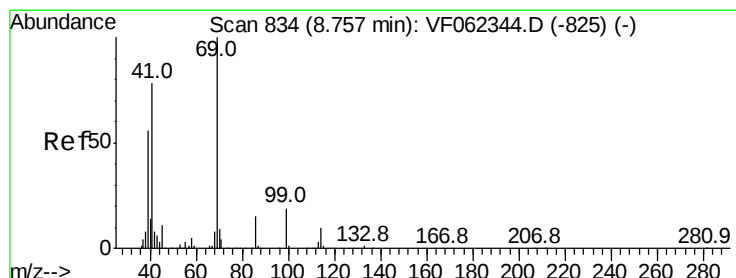
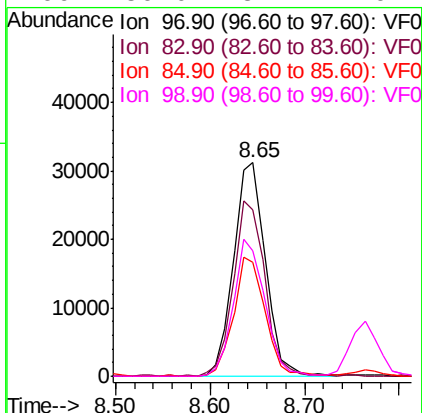
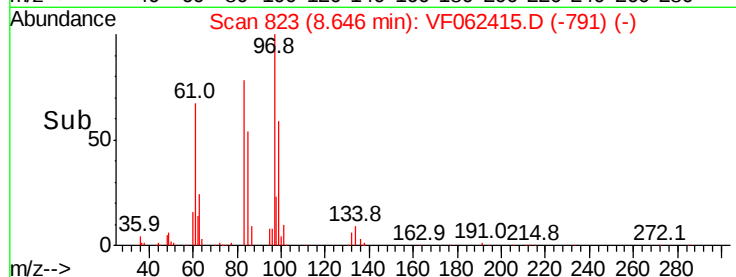
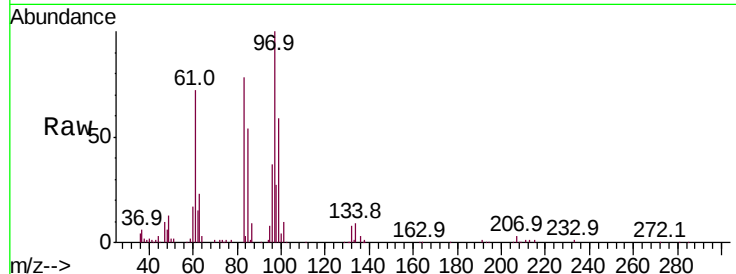
#55
 1,1,2-Trichloroethane
 Concen: 48.313 ug/l
 RT: 8.65 min Scan# 823
 Delta R.T. 0.02 min
 Lab File: VF062415.D
 Acq: 10 May 2019 10:40

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		72859		
83	78.2	68.5	102.7		
85	53.6	45.4	68.2		
99	59.0	52.7	79.1		

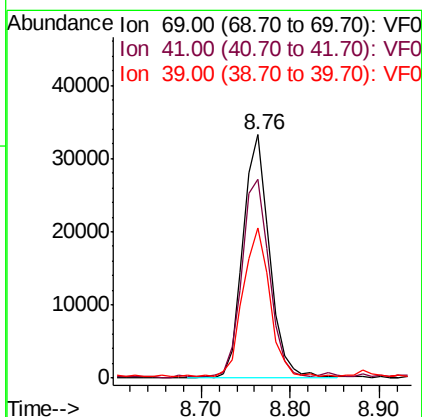
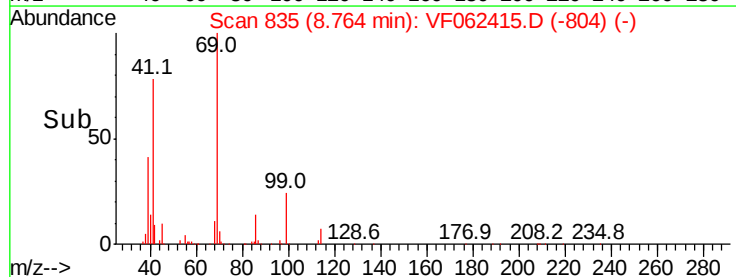
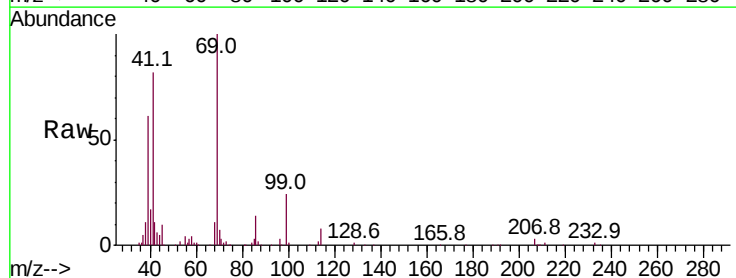
Manual Integrations
 APPROVED

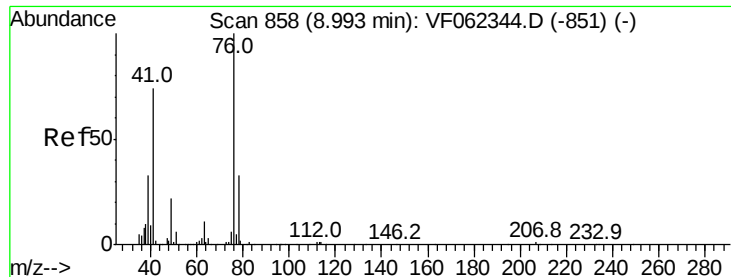
MMDadoda
 5/11/2019 3:54:03 PM



#56
 Ethyl methacrylate
 Concen: 43.197 ug/l
 RT: 8.76 min Scan# 835
 Delta R.T. 0.01 min
 Lab File: VF062415.D
 Acq: 10 May 2019 10:40

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		68765		
41	82.6	66.3	99.5		
39	61.2	50.1	75.1		





#57

1,3-Dichloropropane

Concen: 49.920 ug/l

RT: 9.00 min Scan# 859

Delta R.T. 0.01 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 113715

Ion Ratio Lower Upper

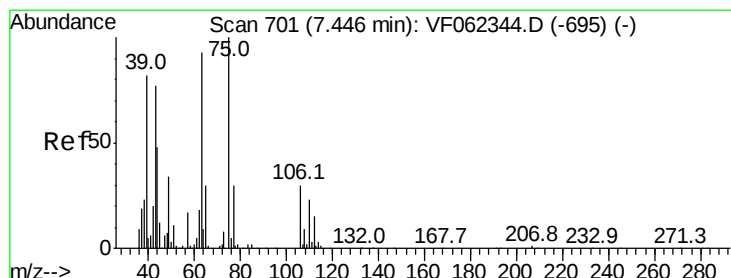
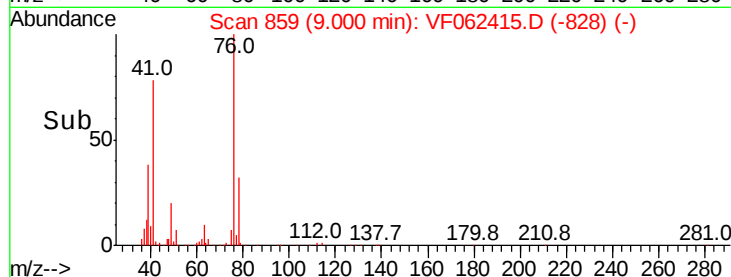
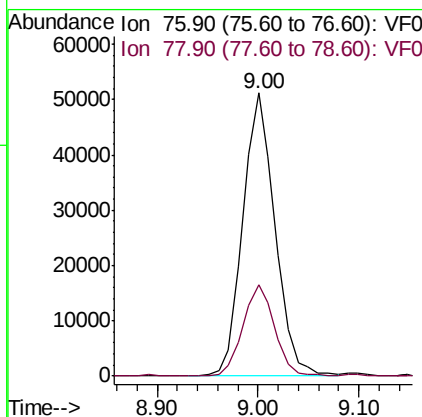
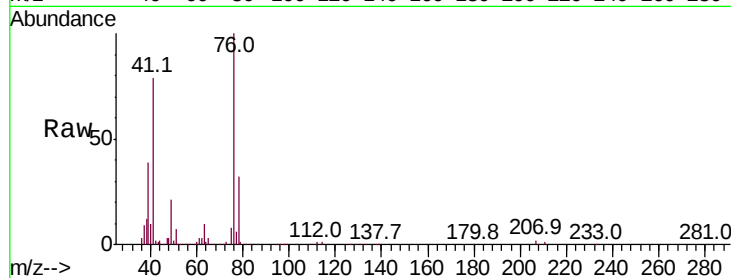
76 100

78 32.0 26.4 39.6

Manual Integrations
APPROVED

MMDadoda

5/11/2019 3:54:03 PM



#58

2-Chloroethyl Vinyl ether

Concen: 228.763 ug/l

RT: 7.45 min Scan# 702

Delta R.T. 0.01 min

Lab File: VF062415.D

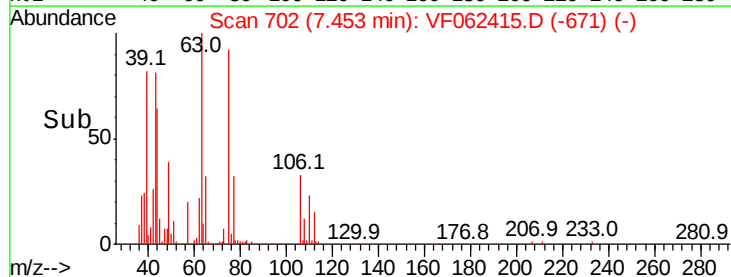
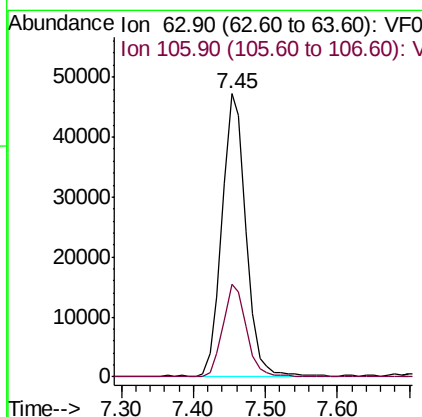
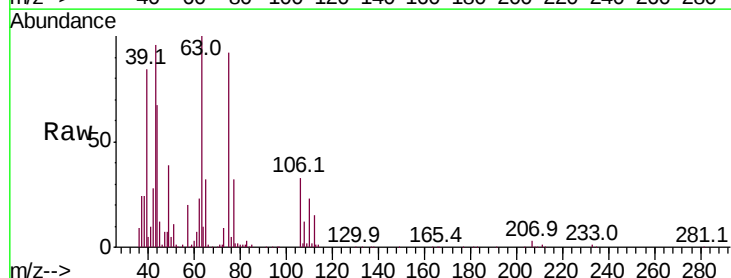
Acq: 10 May 2019 10:40

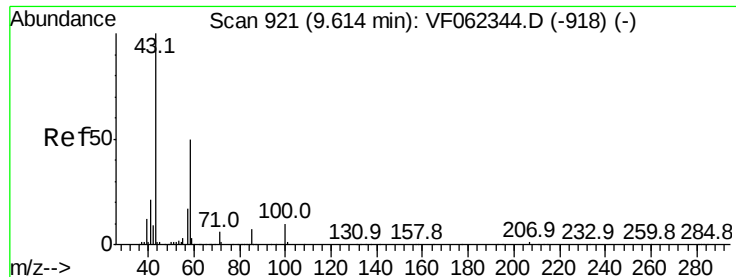
Tgt Ion: 63 Resp: 109485

Ion Ratio Lower Upper

63 100

106 31.9 25.8 38.8





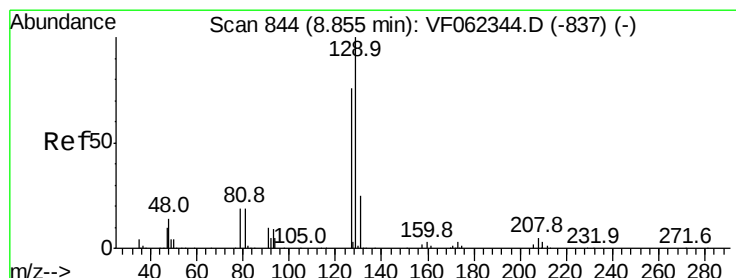
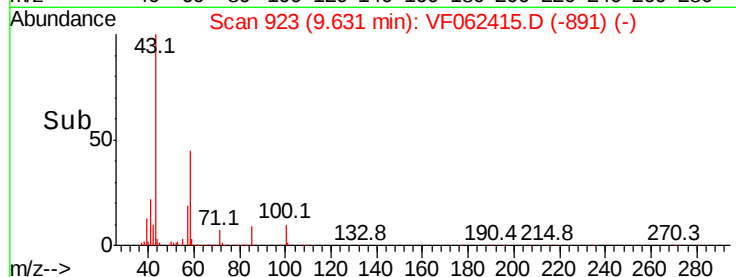
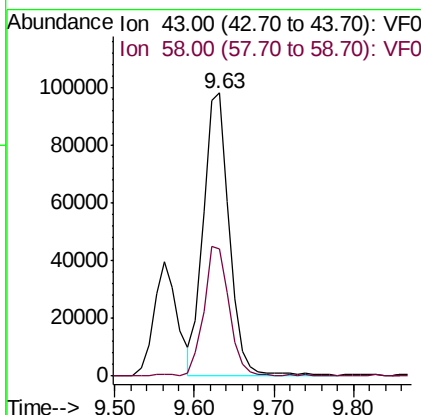
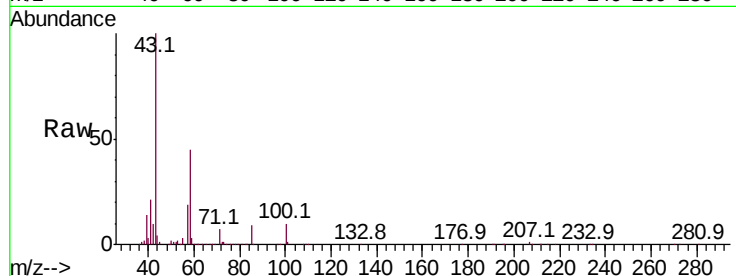
#59
2-Hexanone
Concen: 267.128 ug/l
RT: 9.63 min Scan# 923
Delta R.T. 0.02 min
Lab File: VF062415.D
Acq: 10 May 2019 10:40

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 222666
Ion Ratio Lower Upper
43 100
58 45.5 24.3 73.0

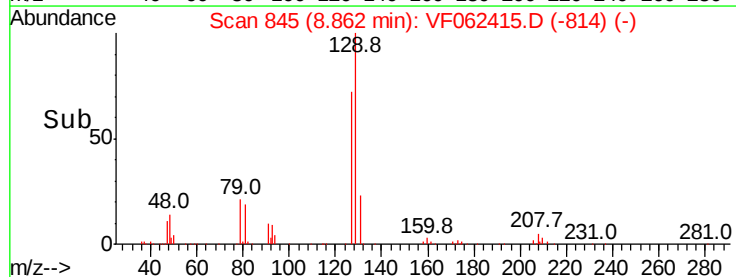
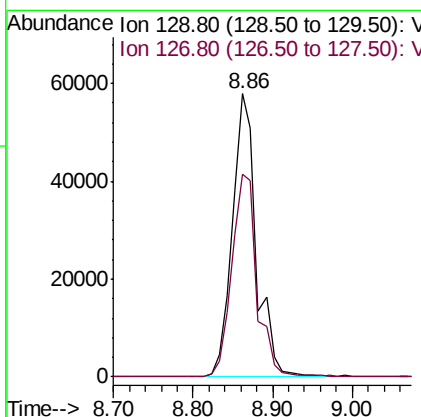
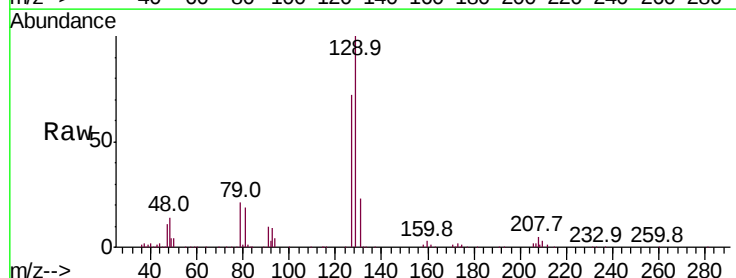
Manual Integrations
APPROVED

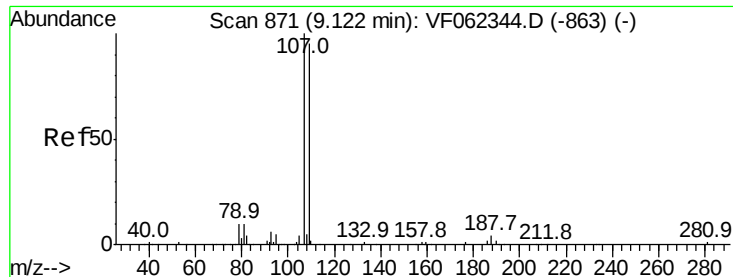
MMDadoda
5/11/2019 3:54:03 PM



#60
Dibromochloromethane
Concen: 49.438 ug/l
RT: 8.86 min Scan# 845
Delta R.T. 0.01 min
Lab File: VF062415.D
Acq: 10 May 2019 10:40

Tgt Ion: 129 Resp: 121936
Ion Ratio Lower Upper
129 100
127 75.4 38.5 115.3





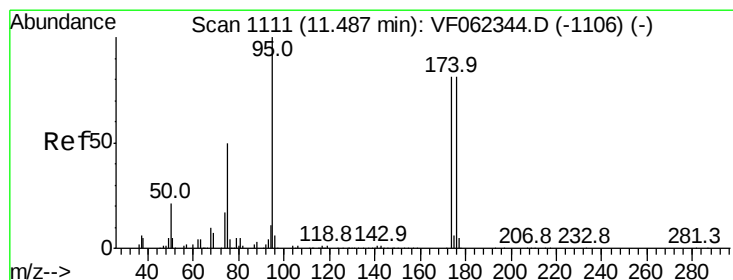
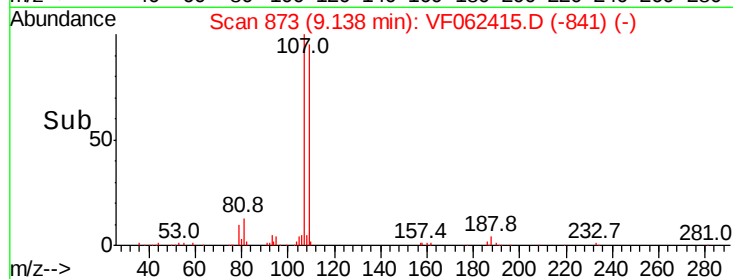
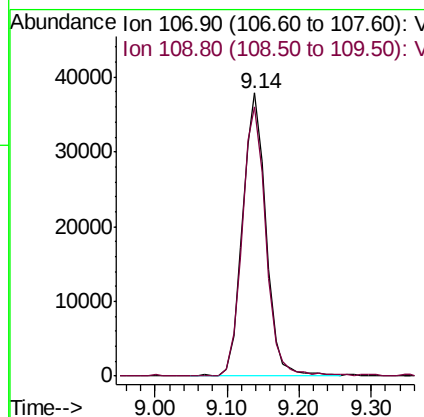
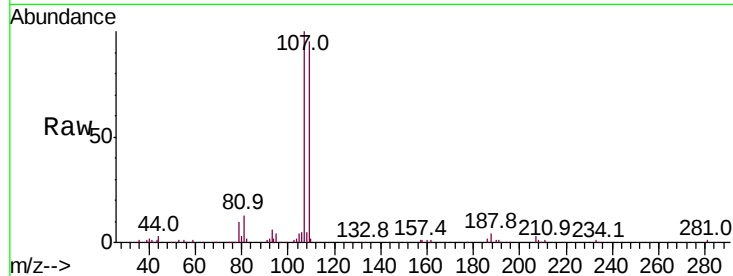
#61
 1,2-Dibromoethane
 Concen: 48.397 ug/l
 RT: 9.14 min Scan# 873
 Delta R.T. 0.02 min
 Lab File: VF062415.D
 Acq: 10 May 2019 10:40

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
107	100		
109	96.4	75.2	112.8

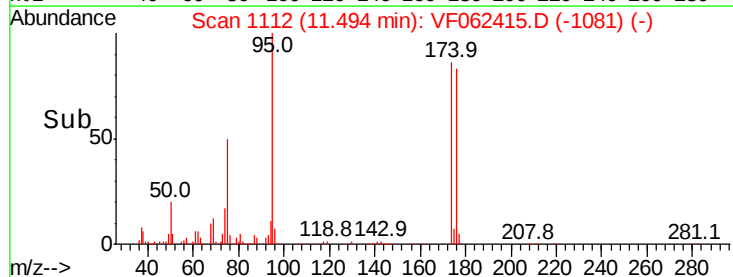
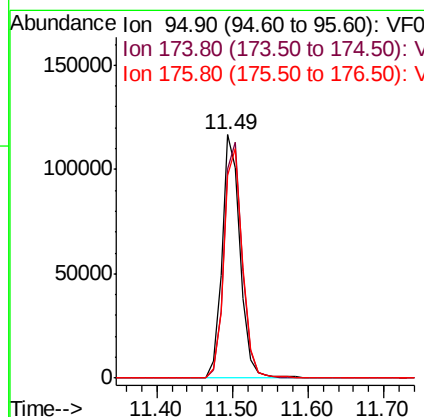
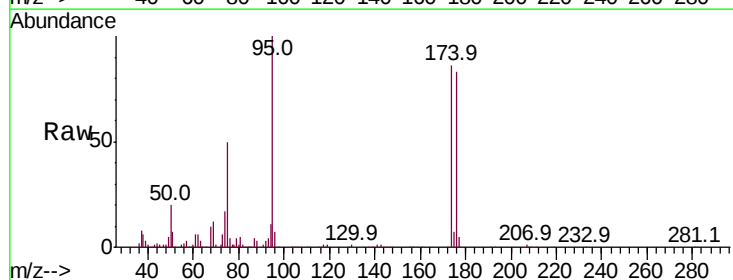
Manual Integrations
 APPROVED

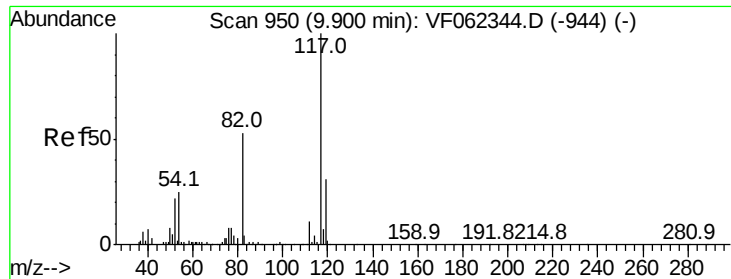
MMDadoda
 5/11/2019 3:54:03 PM



#62
 4-Bromofluorobenzene
 Concen: 55.271 ug/l
 RT: 11.49 min Scan# 1112
 Delta R.T. 0.01 min
 Lab File: VF062415.D
 Acq: 10 May 2019 10:40

Tgt Ion	Ratio	Lower	Upper
95	100		
174	97.3	0.0	191.8
176	95.5	0.0	193.2





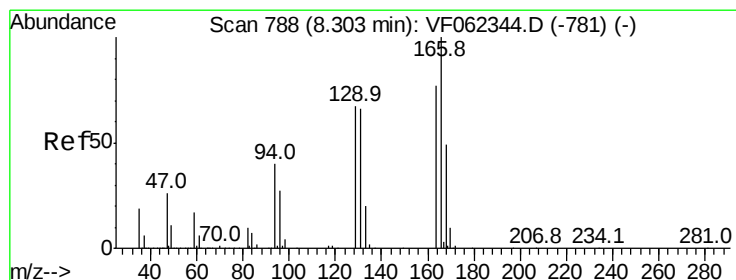
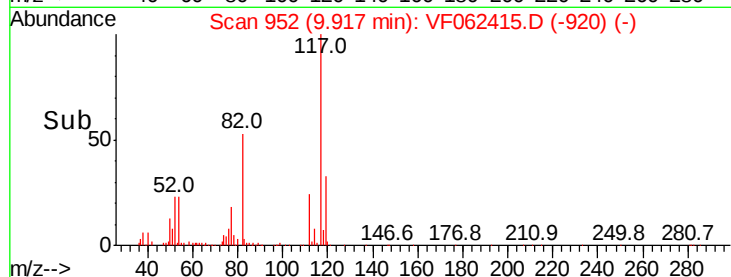
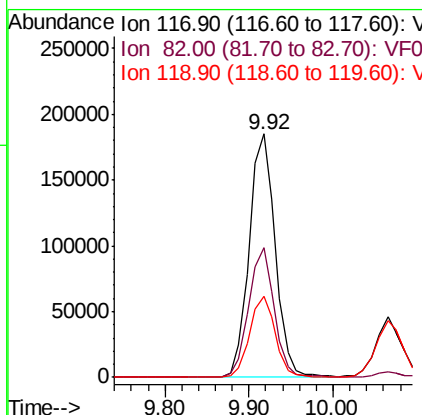
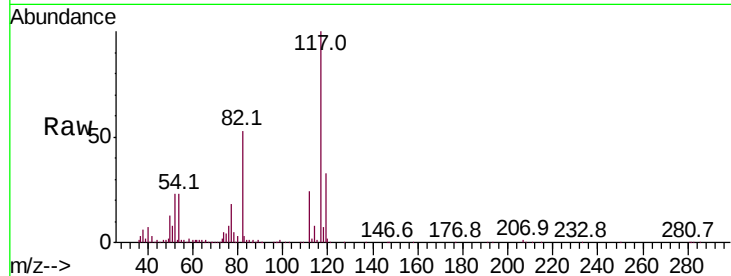
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 952
Delta R.T. 0.02 min
Lab File: VF062415.D
Acq: 10 May 2019 10:40

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp Lower	Upper
117	100		
82	53.2	42.2	63.2
119	33.3	25.0	37.4

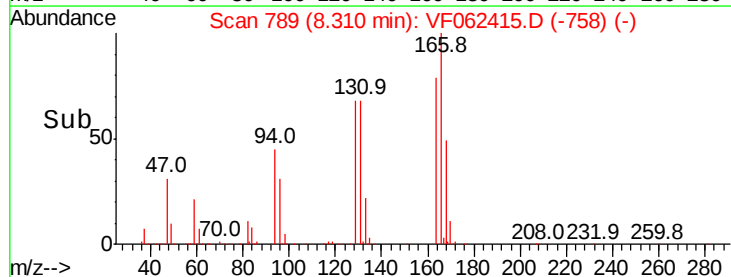
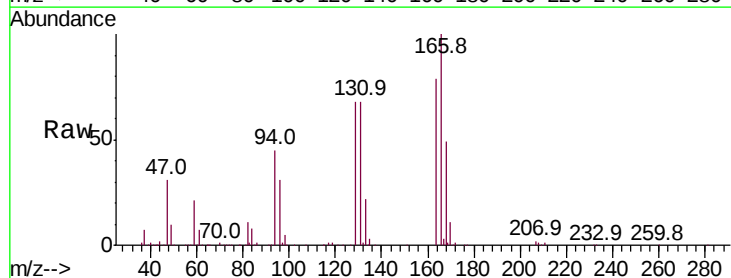
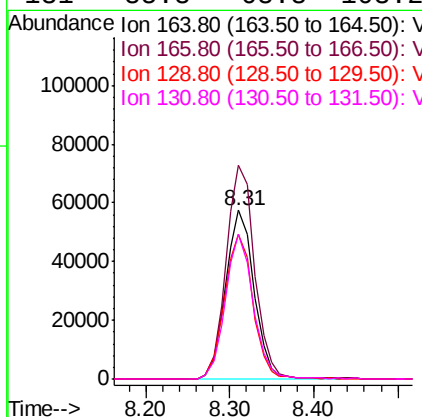
Manual Integrations
APPROVED

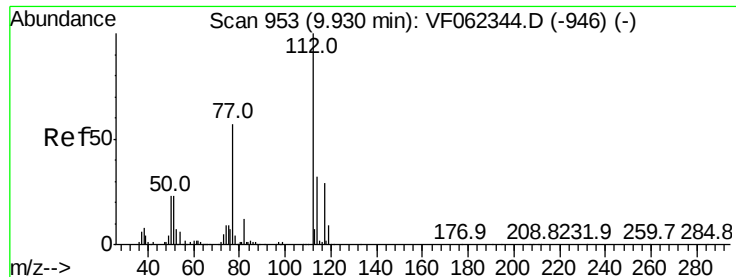
MMDadoda
5/11/2019 3:54:03 PM



#64
Tetrachloroethene
Concen: 41.402 ug/l
RT: 8.31 min Scan# 789
Delta R.T. 0.01 min
Lab File: VF062415.D
Acq: 10 May 2019 10:40

Tgt Ion	Ratio	Resp Lower	Upper
164	100		
166	126.3	104.2	156.4
129	86.0	69.6	104.4
131	85.8	68.8	103.2





#65

Chlorobenzene

Concen: 46.432 ug/l

RT: 9.94 min Scan# 954

Delta R.T. 0.01 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:112 Resp: 309599

Ion Ratio Lower Upper

112 100

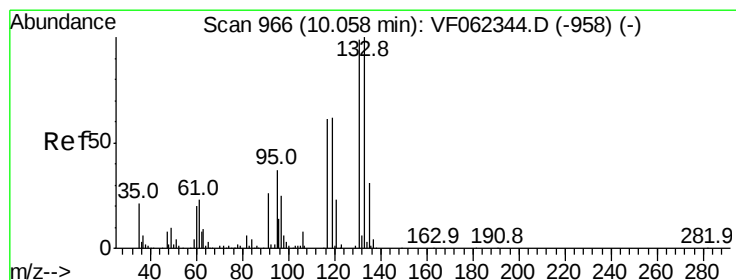
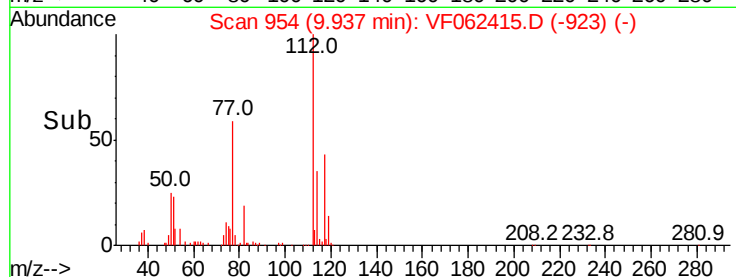
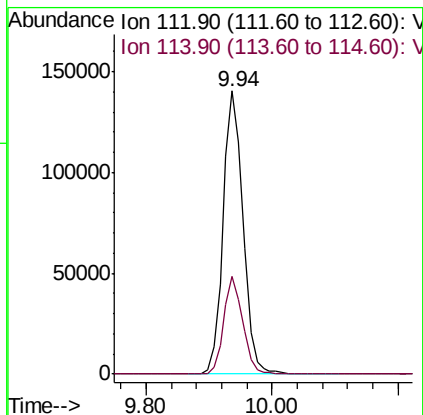
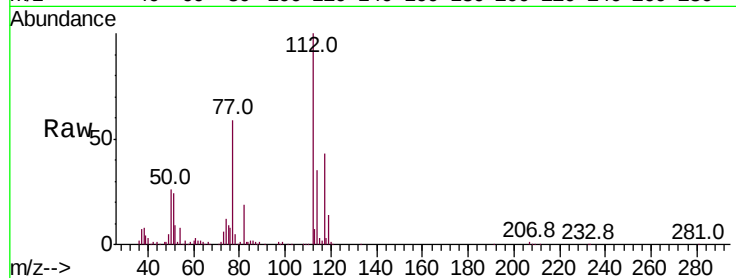
114 34.7 25.4 38.0

Manual Integrations

APPROVED

MMDadoda

5/11/2019 3:54:03 PM



#66

1,1,1,2-Tetrachloroethane

Concen: 44.018 ug/l

RT: 10.06 min Scan# 967

Delta R.T. 0.01 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

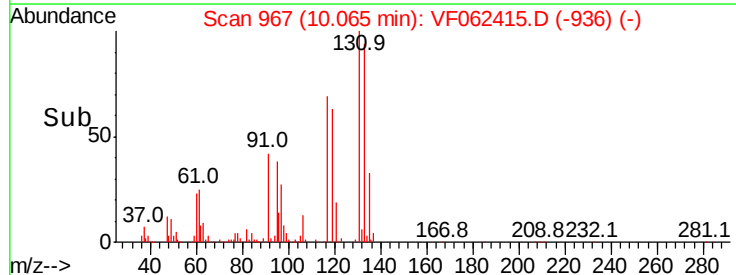
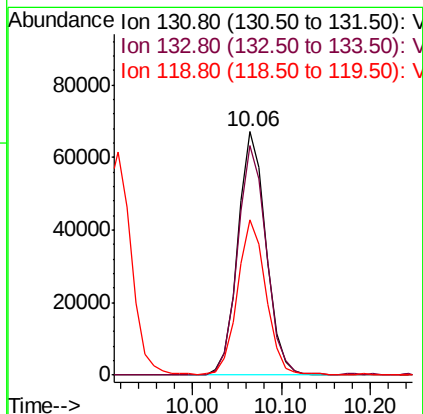
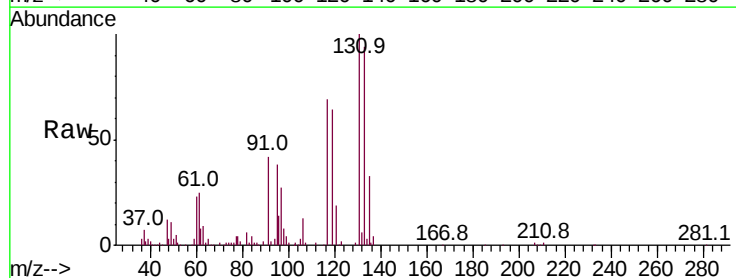
Tgt Ion:131 Resp: 148062

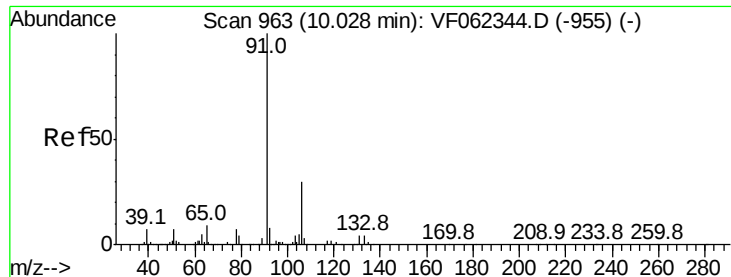
Ion Ratio Lower Upper

131 100

133 95.9 50.2 150.7

119 63.8 31.6 95.0





#67

Ethyl Benzene

Concen: 44.946 ug/l

RT: 10.04 min Scan# 964

Delta R.T. 0.01 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 524784

Ion Ratio Lower Upper

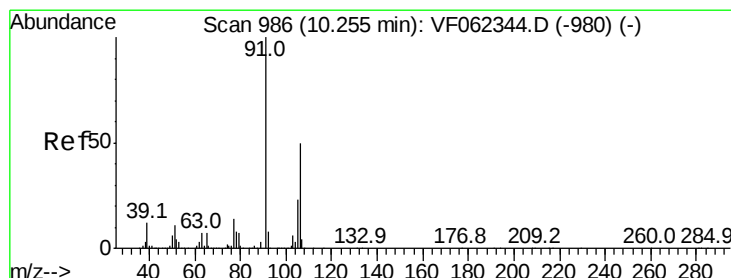
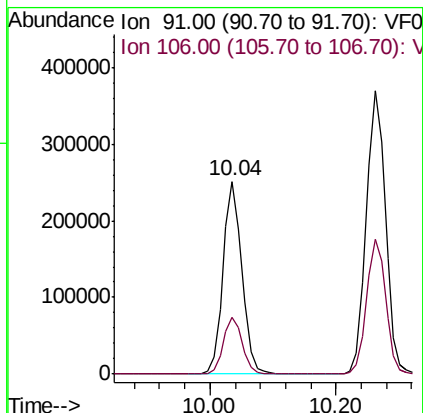
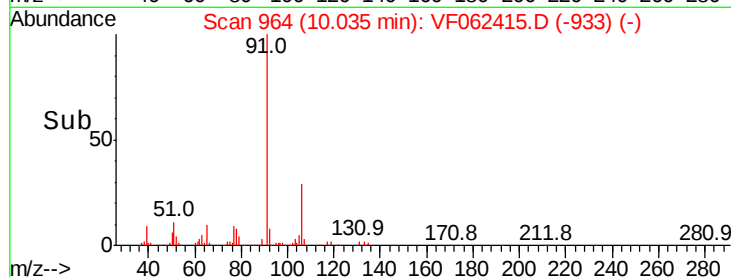
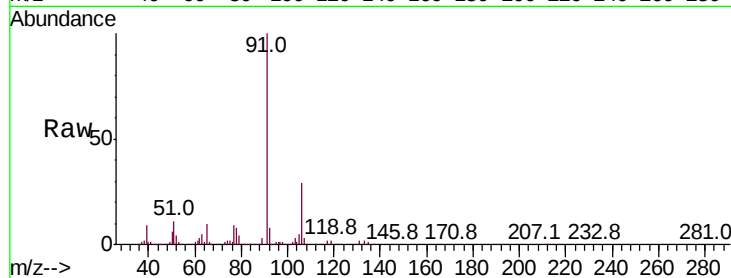
91 100

106 29.4 24.1 36.1

Manual Integrations
APPROVED

MMDadoda

5/11/2019 3:54:03 PM



#68

m/p-Xylenes

Concen: 86.246 ug/l

RT: 10.26 min Scan# 987

Delta R.T. 0.01 min

Lab File: VF062415.D

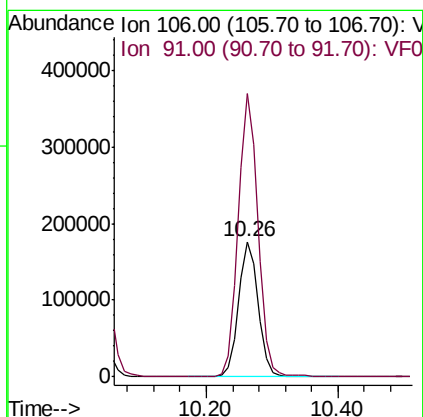
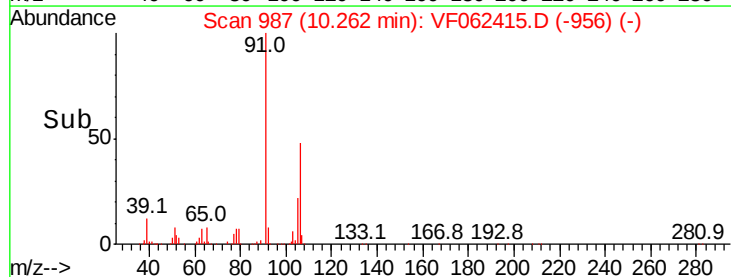
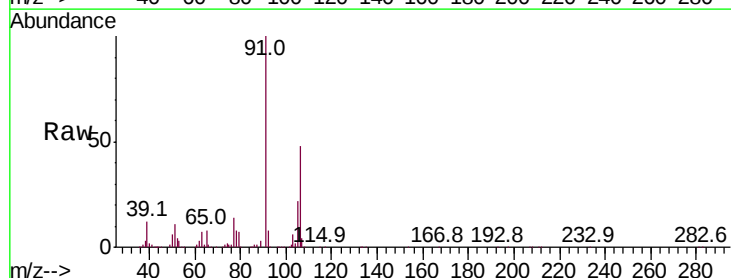
Acq: 10 May 2019 10:40

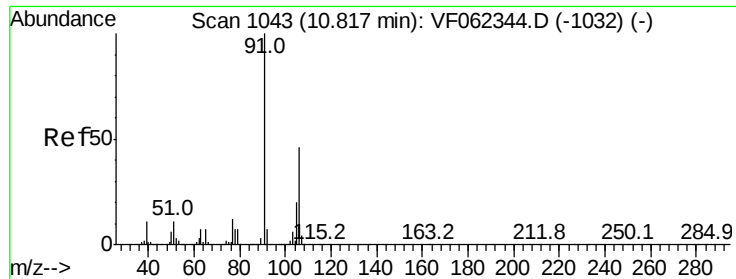
Tgt Ion: 106 Resp: 371543

Ion Ratio Lower Upper

106 100

91 210.8 167.4 251.2





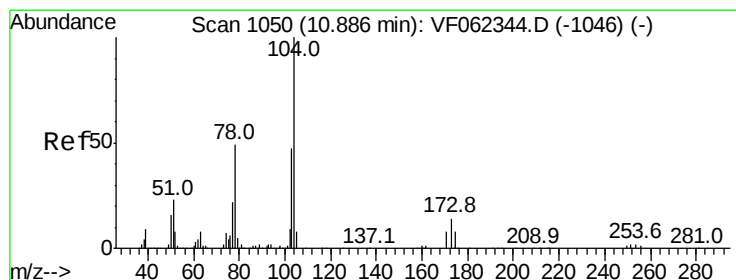
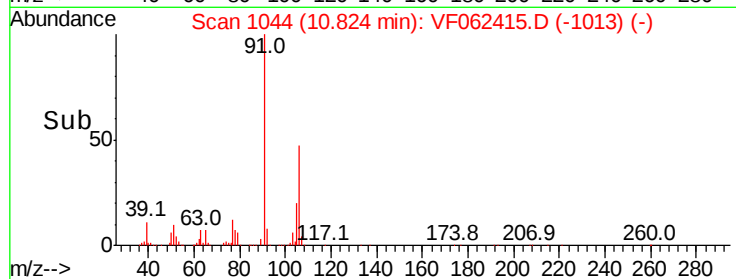
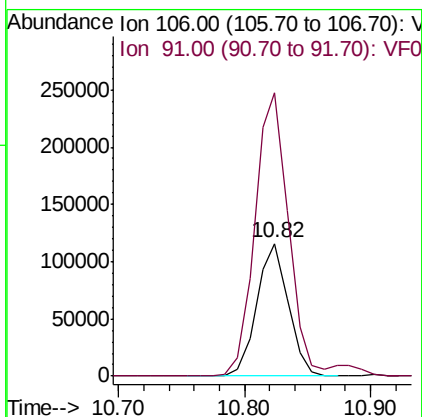
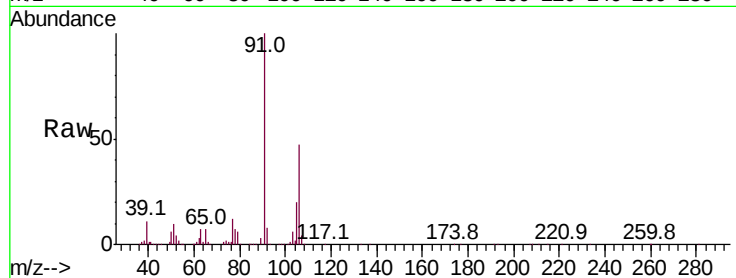
#69
o-Xylene
Concen: 43.471 ug/l
RT: 10.82 min Scan# 1044
Delta R.T. 0.01 min
Lab File: VF062415.D
Acq: 10 May 2019 10:40

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
106	100		
91	224.7	111.3	333.8

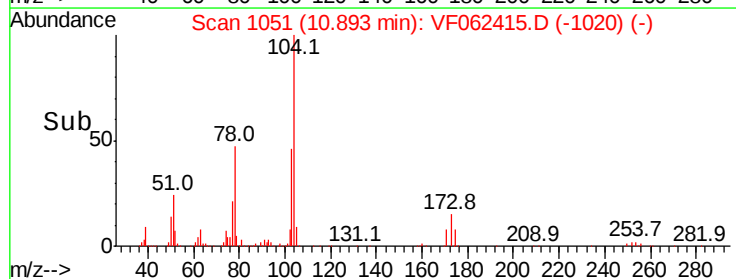
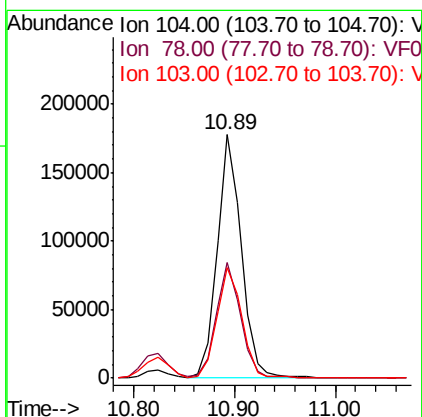
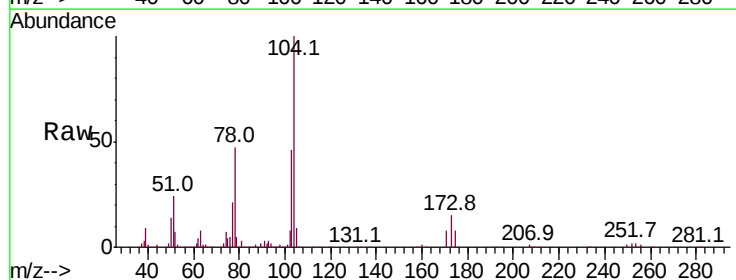
Manual Integrations
APPROVED

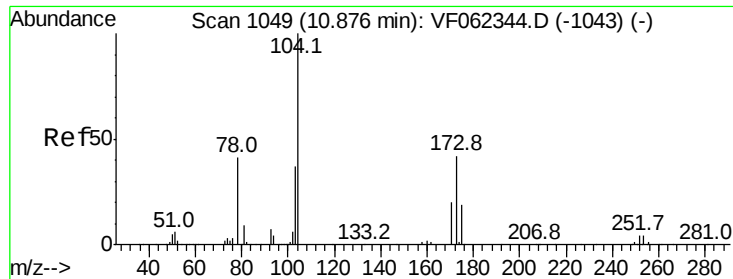
MMDadoda
5/11/2019 3:54:03 PM



#70
Styrene
Concen: 42.143 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. 0.01 min
Lab File: VF062415.D
Acq: 10 May 2019 10:40

Tgt Ion	Ratio	Lower	Upper
104	100		
78	48.1	39.5	59.3
103	47.2	38.4	57.6





#71

Bromoform

Concen: 41.671 ug/l

RT: 10.88 min Scan# 1050

Delta R.T. 0.01 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:173 Resp: 76792

Ion Ratio Lower Upper

173 100

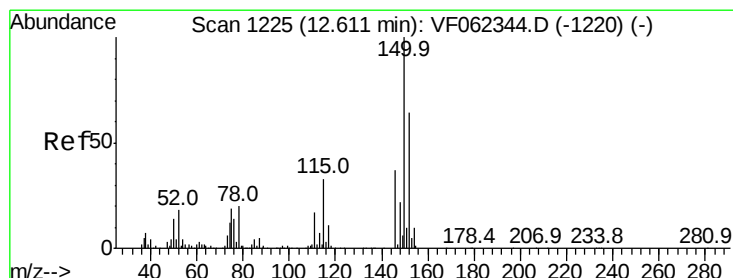
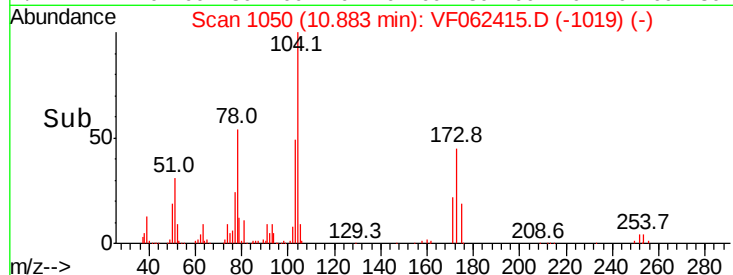
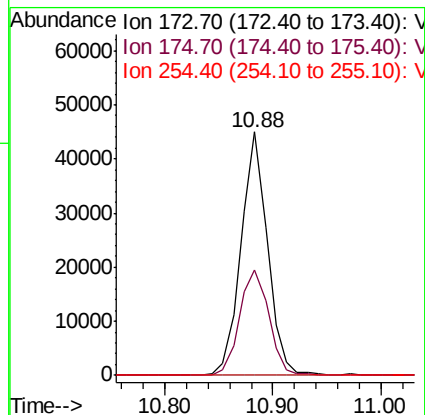
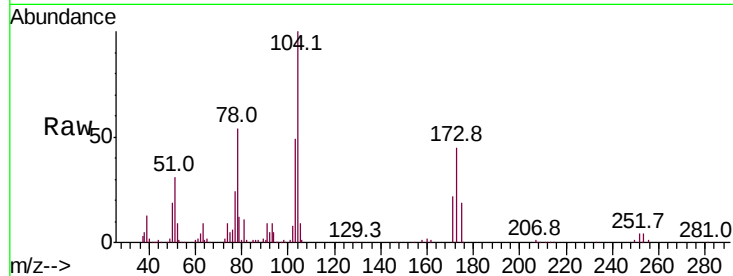
175 48.2 23.8 71.2

254 0.1 0.1 0.1

Manual Integrations
APPROVED

MMDadoda

5/11/2019 3:54:03 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1226

Delta R.T. 0.01 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

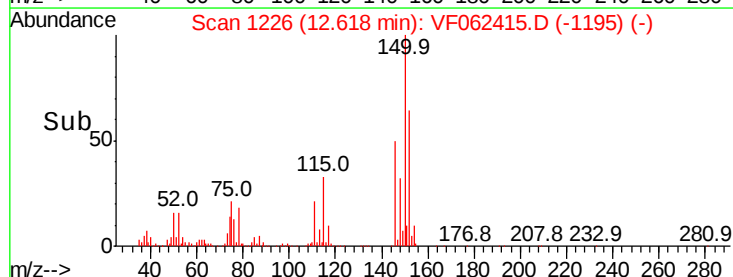
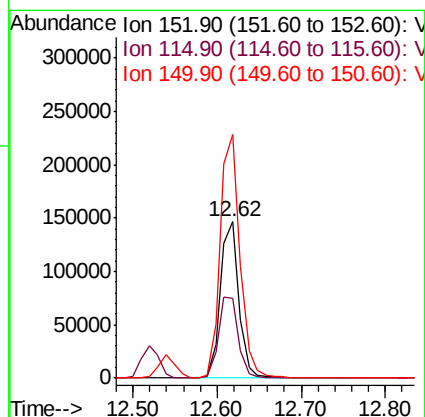
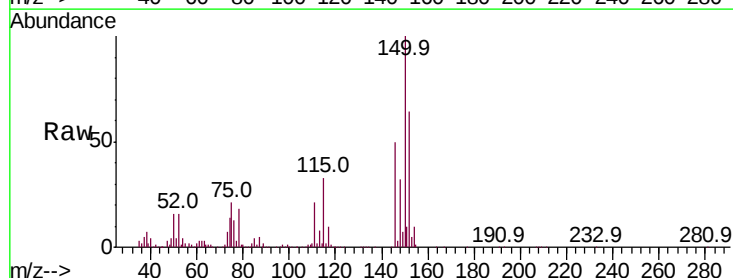
Tgt Ion:152 Resp: 223332

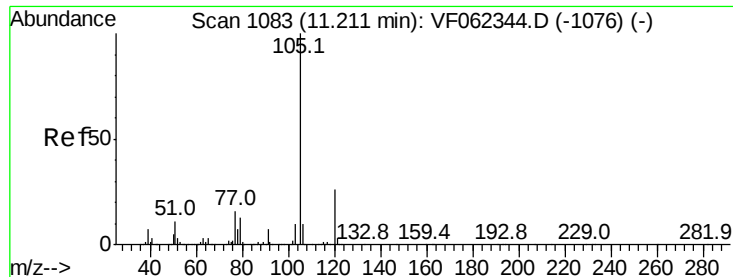
Ion Ratio Lower Upper

152 100

115 54.7 26.4 79.2

150 167.2 0.0 335.0





#73

Isopropylbenzene

Concen: 46.153 ug/l

RT: 11.22 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 611059

Ion Ratio Lower Upper

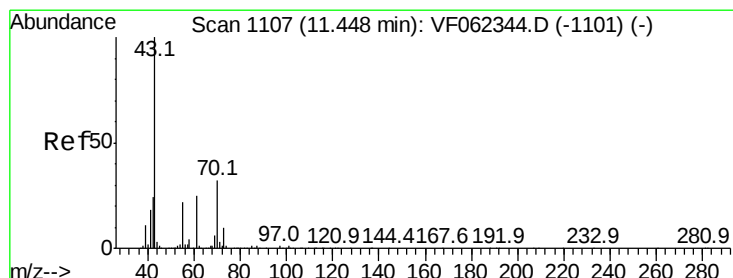
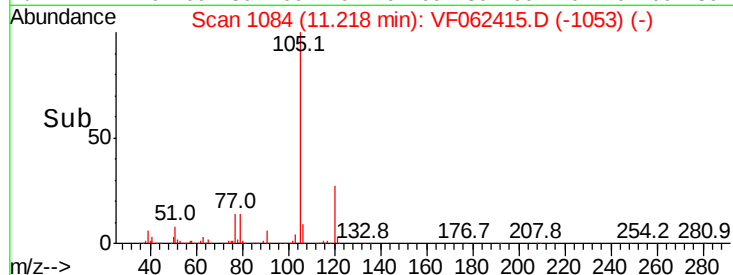
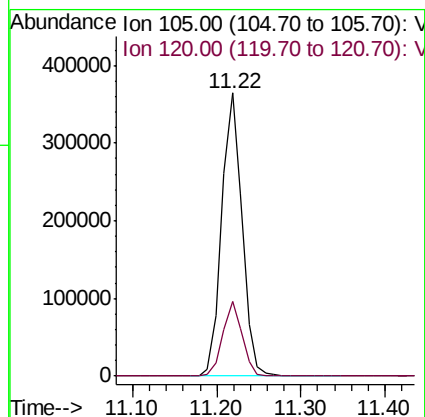
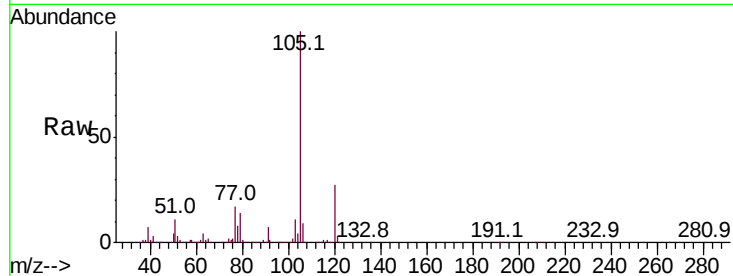
105 100

120 25.2 12.7 38.0

Manual Integrations
APPROVED

MMDadoda

5/11/2019 3:54:03 PM



#74

N-ethyl acetate

Concen: 38.221 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. 0.01 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

Tgt Ion: 43 Resp: 108642

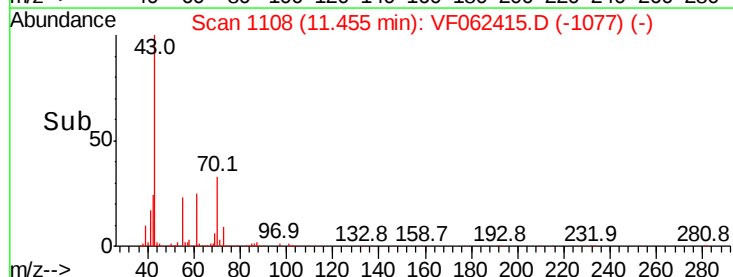
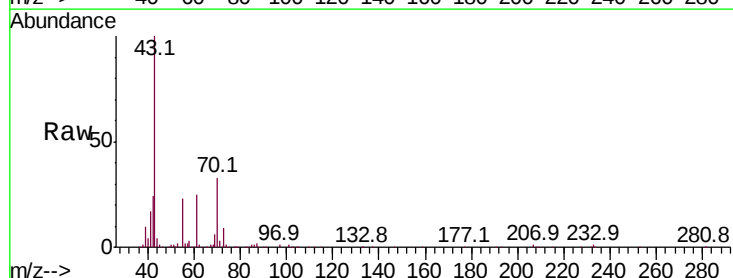
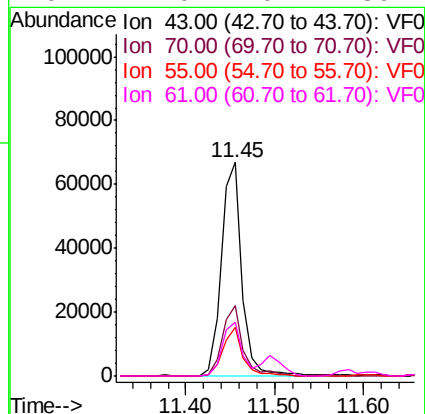
Ion Ratio Lower Upper

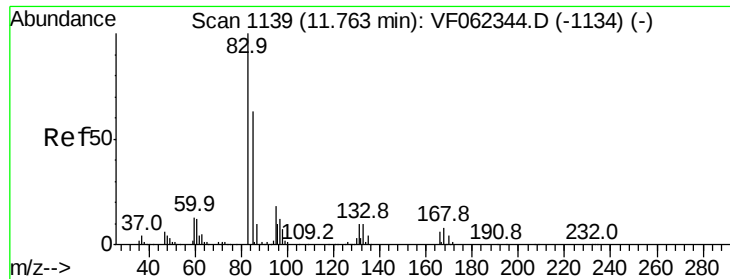
43 100

70 32.8 26.5 39.7

55 22.2 17.8 26.6

61 24.0 20.2 30.2





#75

1,1,2,2-Tetrachloroethane

Concen: 45.102 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. 0.01 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

Instrument :

MSVOA_F

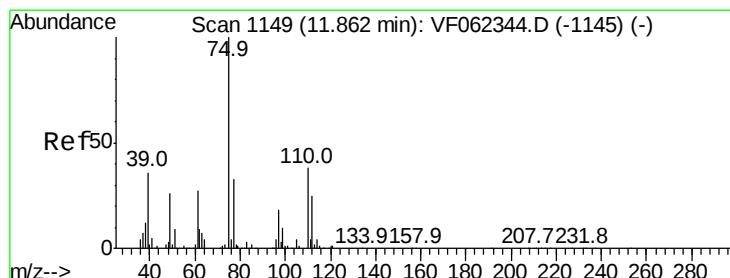
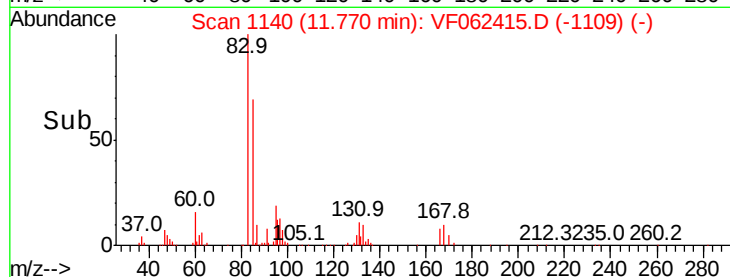
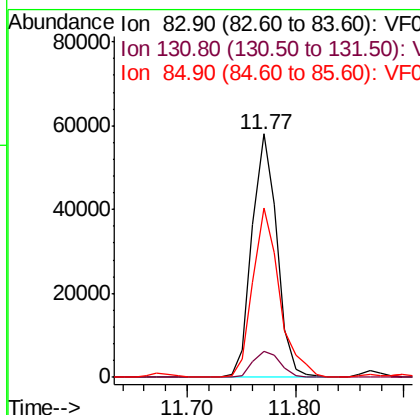
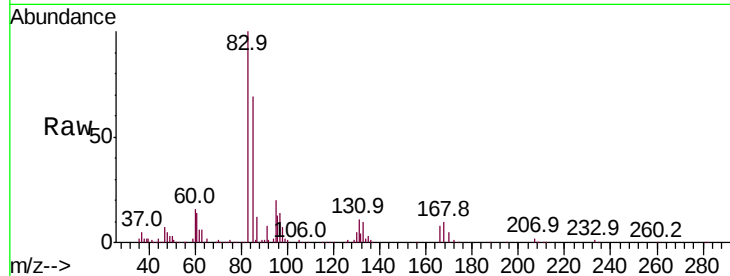
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	93498
Ion Ratio	Lower	Upper	
83	100		
131	11.6	5.8	17.4
85	74.9	35.3	105.7

Manual Integrations
APPROVED

MMDadoda
5/11/2019 3:54:03 PM



#76

1,2,3-Trichloropropane

Concen: 44.062 ug/l

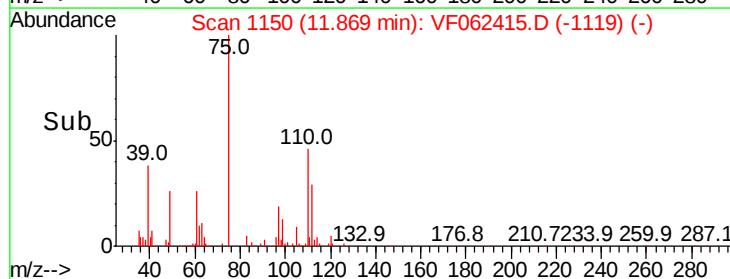
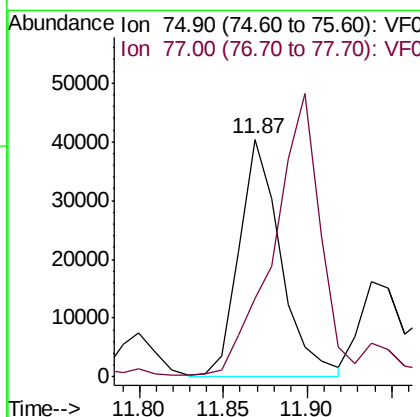
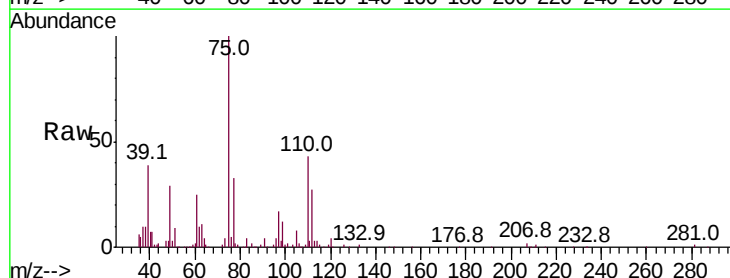
RT: 11.87 min Scan# 1150

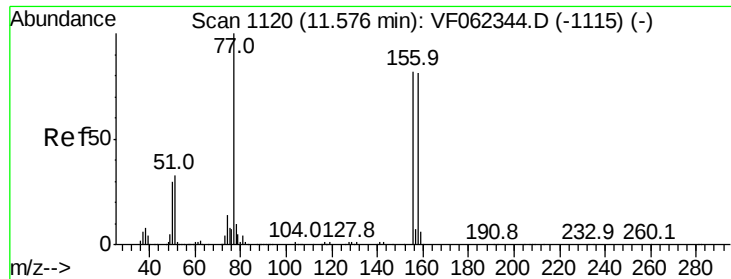
Delta R.T. 0.01 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

Tgt Ion:	75	Resp:	69689
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 46.146 ug/l

RT: 11.58 min Scan# 1121

Delta R.T. 0.01 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

Instrument :

MSVOA_F

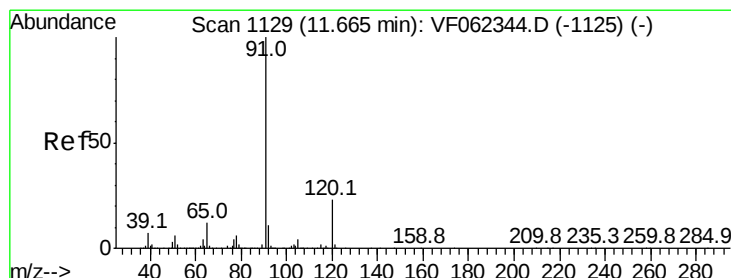
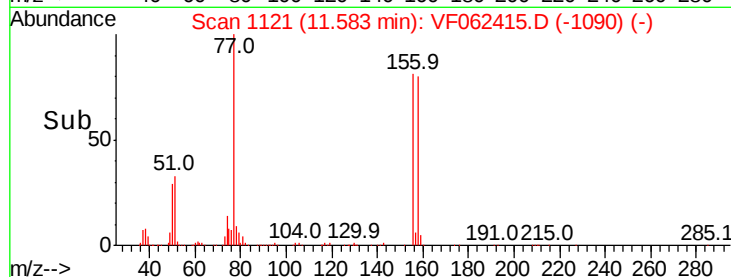
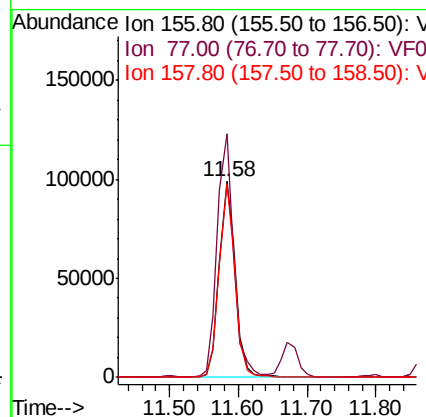
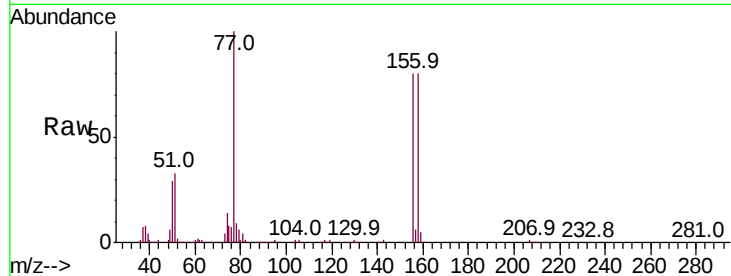
ClientSampleId :

VSTDCCC050

Tot Ion:	156	Resp:	160347
Ion Ratio	Lower	Upper	
156	100		
77	126.6	64.8	194.3
158	96.6	49.1	147.3

Manual Integrations
APPROVED

MMDadoda
5/11/2019 3:54:03 PM



#78

n-propylbenzene

Concen: 47.131 ug/l

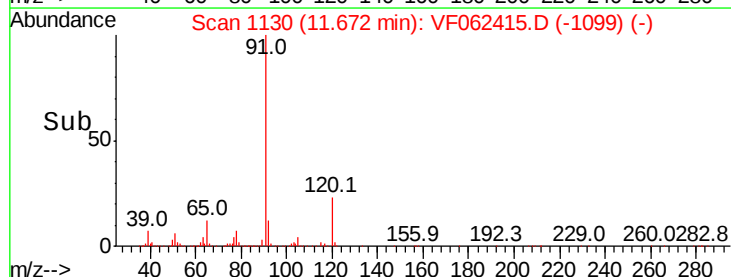
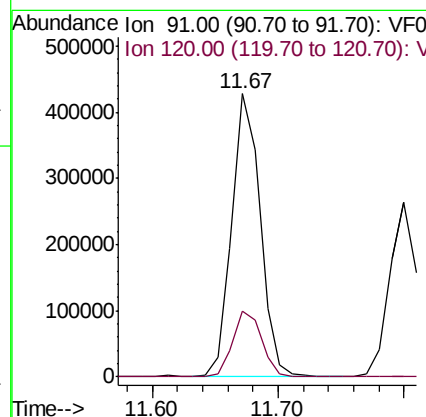
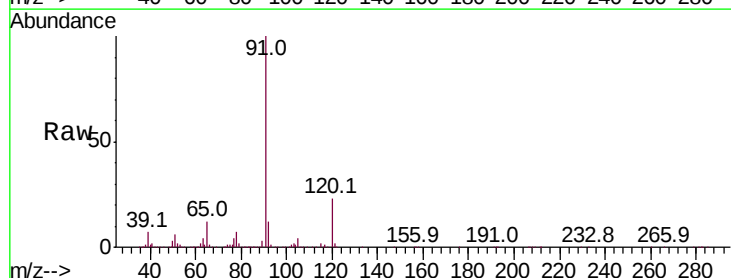
RT: 11.67 min Scan# 1130

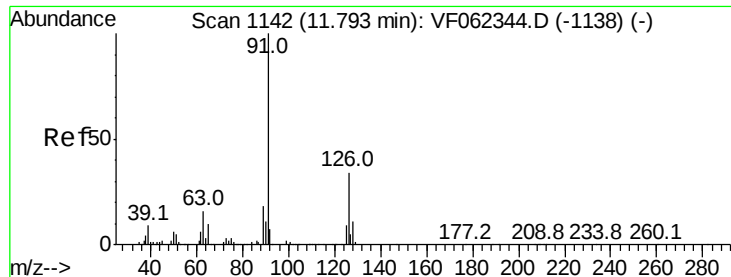
Delta R.T. 0.01 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

Tgt Ion:	91	Resp:	664364
Ion Ratio	Lower	Upper	
91	100		
120	24.0	11.9	35.5





#79

2-Chlorotoluene

Concen: 46.635 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. 0.01 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 408760

Ion Ratio Lower Upper

91 100

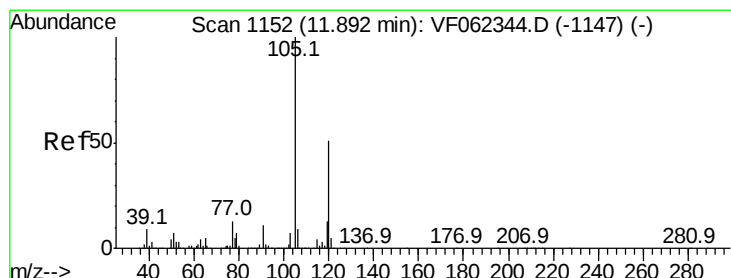
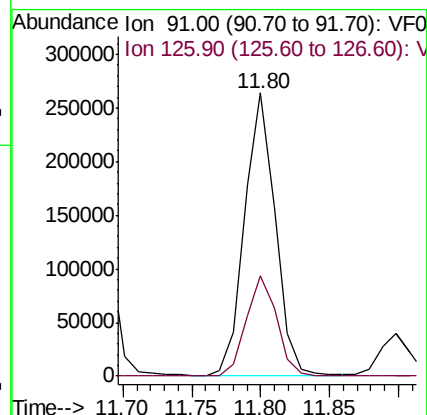
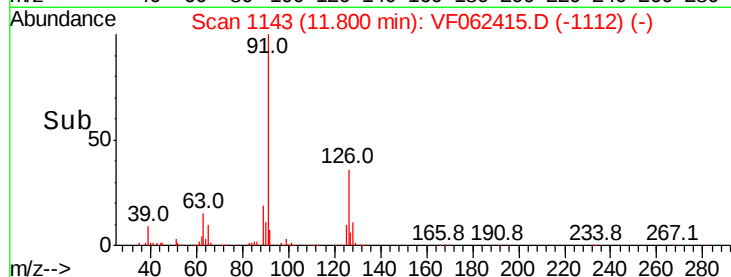
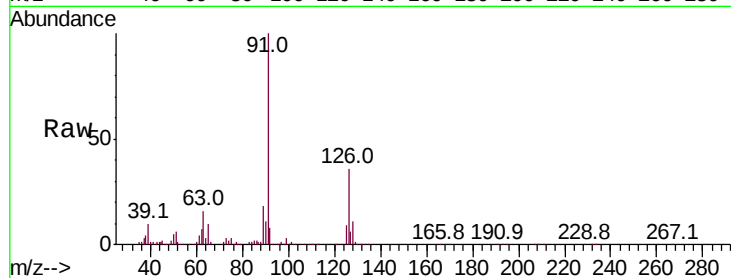
126 35.7 17.8 53.4

Manual Integrations

APPROVED

MMDadoda

5/11/2019 3:54:03 PM



#80

1,3,5-Trimethylbenzene

Concen: 47.113 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. 0.01 min

Lab File: VF062415.D

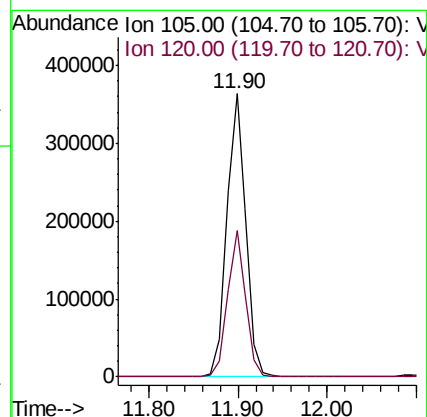
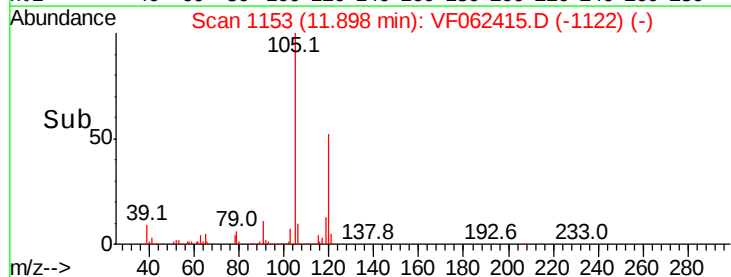
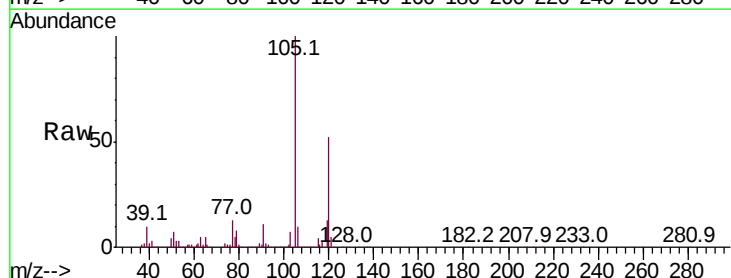
Acq: 10 May 2019 10:40

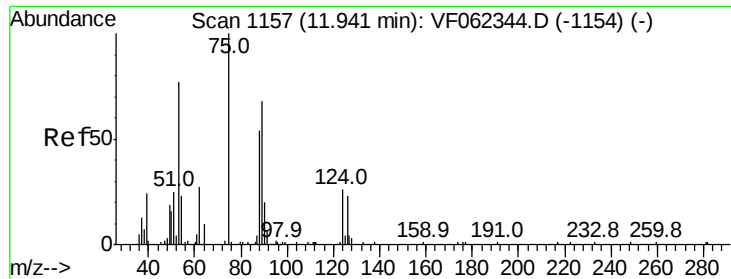
Tgt Ion: 105 Resp: 546732

Ion Ratio Lower Upper

105 100

120 49.7 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 45.347 ug/l m

RT: 11.94 min Scan# 1157

Delta R.T. -0.00 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

Instrument :

MSVOA_F

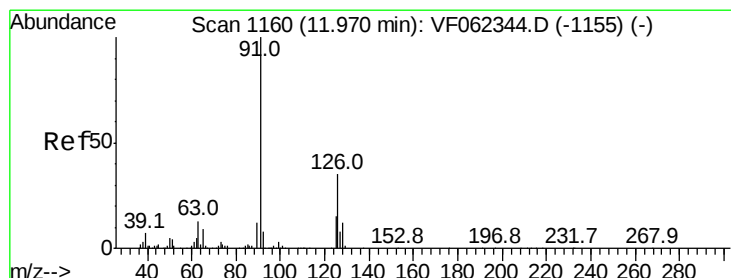
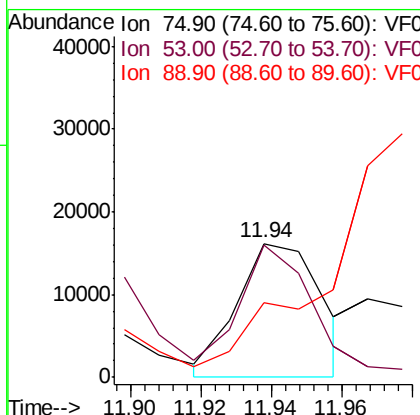
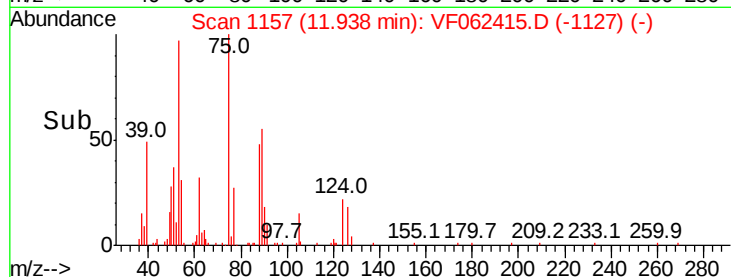
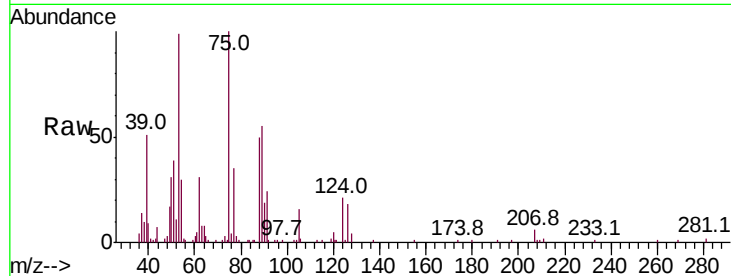
ClientSampleId :

VSTDCCC050

Tot Ion:	75	Resp:	26959
Ion	Ratio	Lower	Upper
75	100		
53	92.6	71.9	107.9
89	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
5/11/2019 3:54:03 PM



#82

4-Chlorotoluene

Concen: 47.467 ug/l

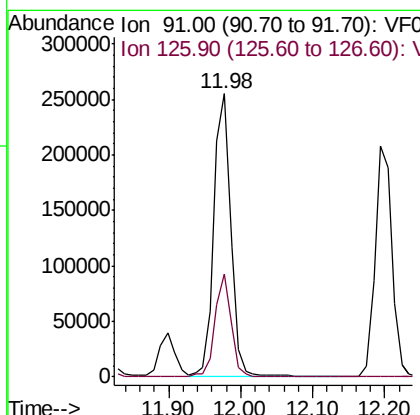
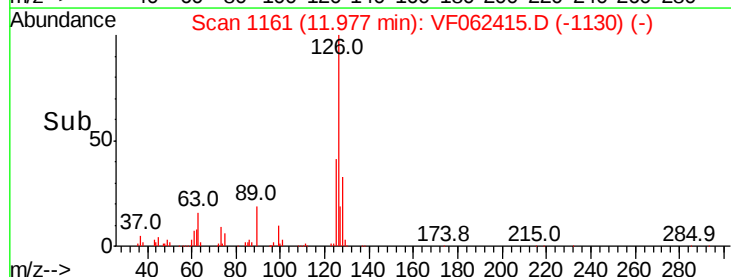
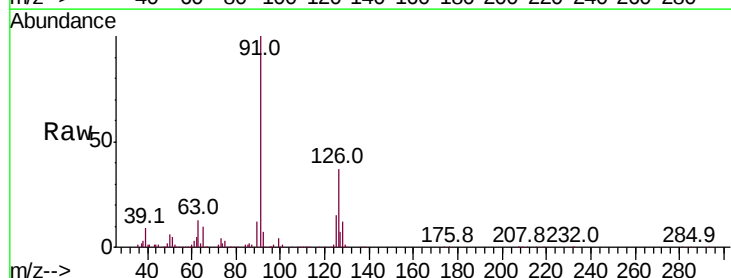
RT: 11.98 min Scan# 1161

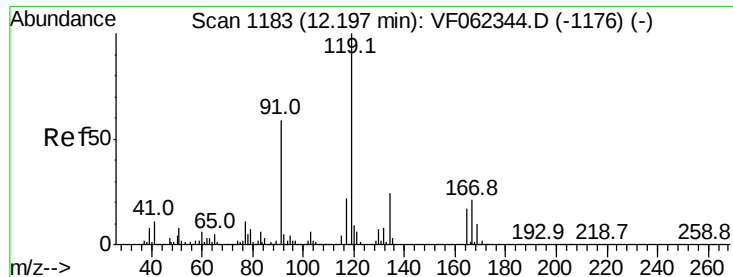
Delta R.T. 0.01 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

Tgt Ion:	91	Resp:	410925
Ion	Ratio	Lower	Upper
91	100		
126	34.4	17.7	53.1





#83

tert-Butylbenzene

Concen: 45.694 ug/l

RT: 12.20 min Scan# 1184

Delta R.T. 0.01 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

Instrument :

MSVOA_F

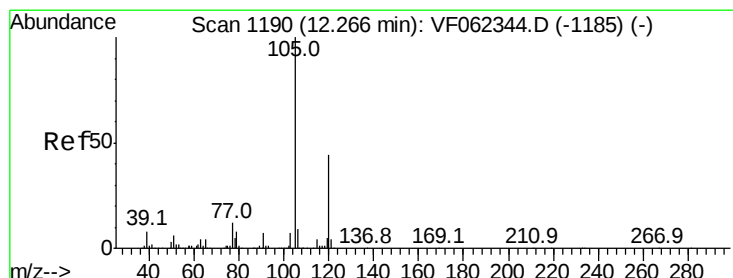
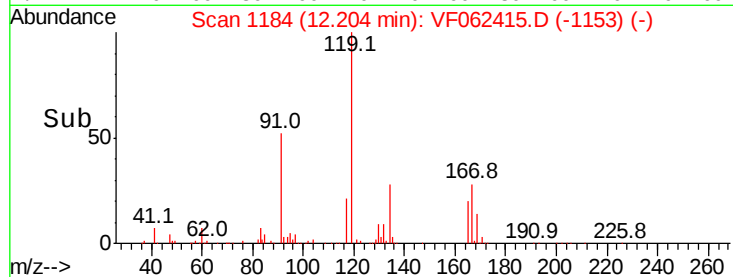
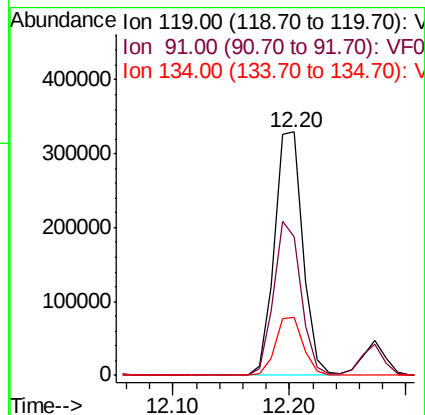
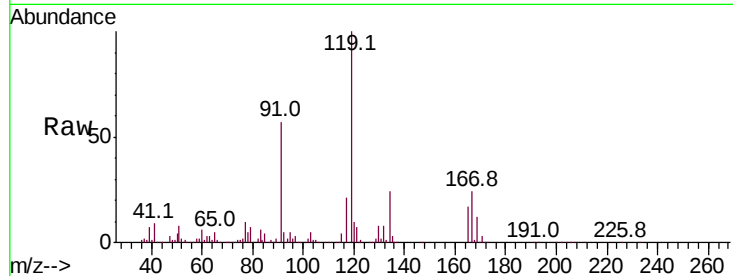
ClientSampleId :

VSTDCCC050

Tot Ion:	119	Resp:	557282
Ion Ratio	Lower	Upper	
119	100		
91	60.8	30.4	91.3
134	23.5	11.9	35.7

Manual Integrations
APPROVED

MMDadoda
5/11/2019 3:54:03 PM



#84

1,2,4-Trimethylbenzene

Concen: 46.526 ug/l

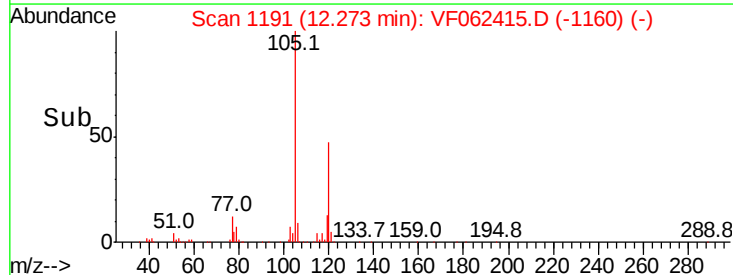
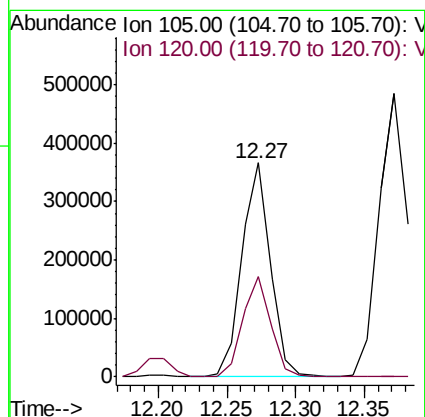
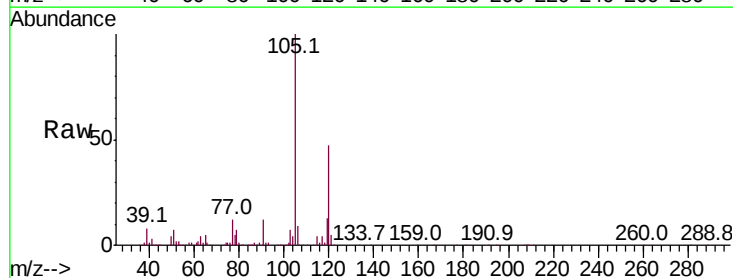
RT: 12.27 min Scan# 1191

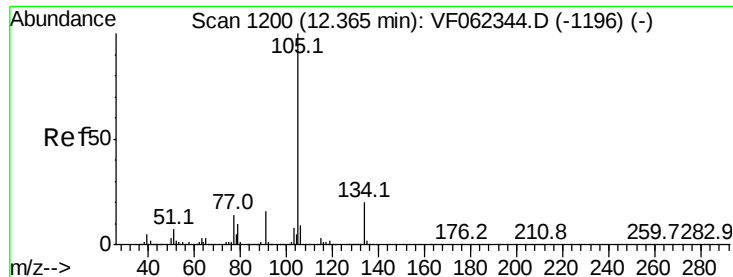
Delta R.T. 0.01 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

Tgt Ion:	105	Resp:	528372
Ion Ratio	Lower	Upper	
105	100		
120	46.2	22.6	67.7





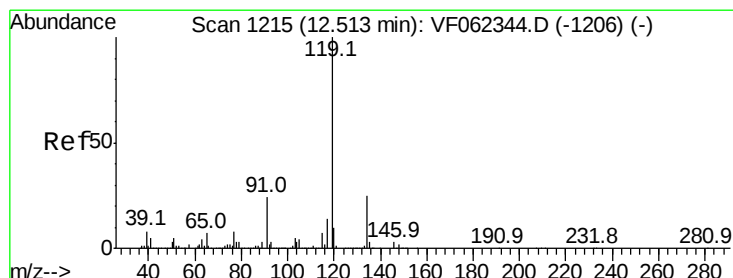
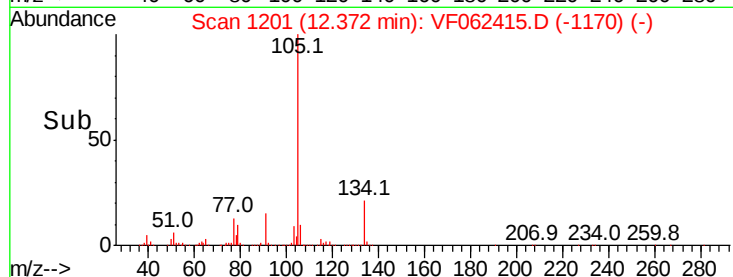
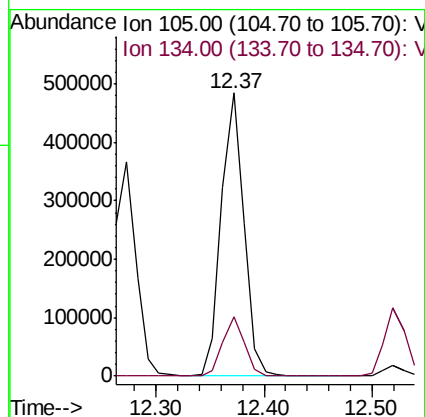
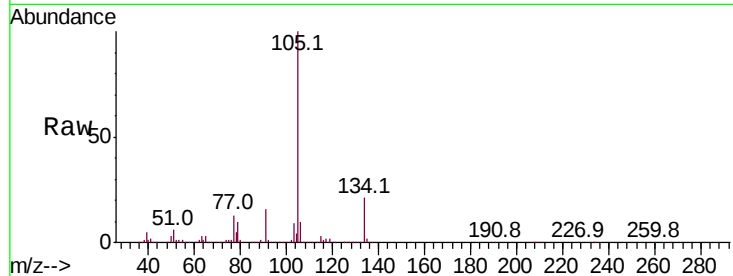
#85
 sec-Butylbenzene
 Concen: 47.700 ug/l
 RT: 12.37 min Scan# 1201
 Delta R.T. 0.01 min
 Lab File: VF062415.D
 Acq: 10 May 2019 10:40

Instrument :
 MSVOA_F
 ClientSampleID :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
105	100	708097		
134	20.3	9.8	29.5	

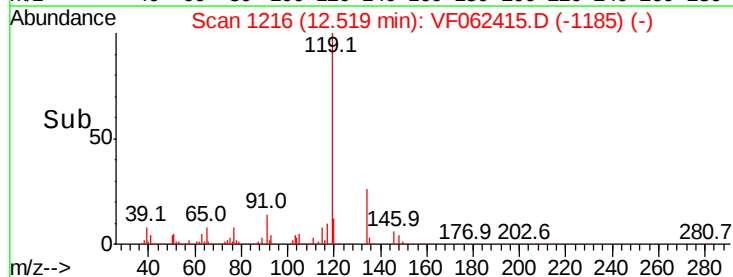
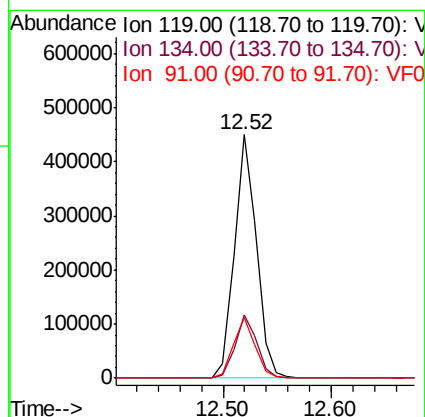
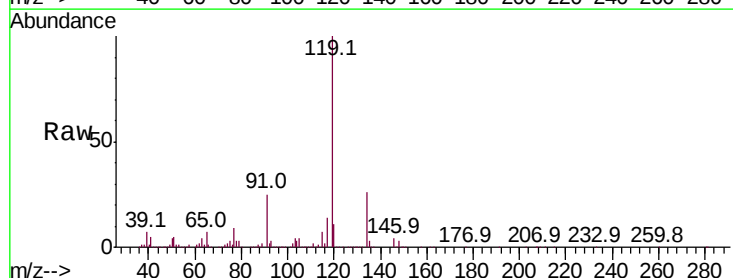
Manual Integrations
 APPROVED

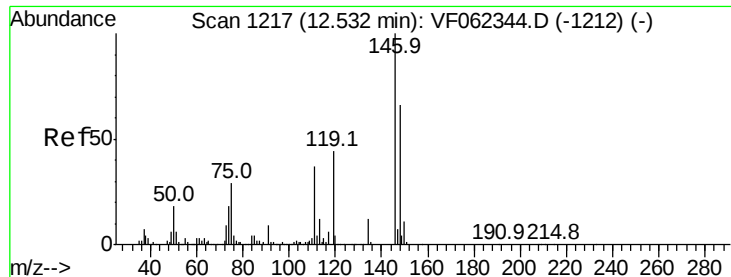
MMDadoda
 5/11/2019 3:54:03 PM



#86
 p-Isopropyltoluene
 Concen: 46.118 ug/l
 RT: 12.52 min Scan# 1216
 Delta R.T. 0.01 min
 Lab File: VF062415.D
 Acq: 10 May 2019 10:40

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	636068		
134	25.5	12.9	38.7	
91	24.6	12.3	36.8	





#87

1,3-Dichlorobenzene

Concen: 46.163 ug/l

RT: 12.54 min Scan# 1218

Delta R.T. 0.01 min

Lab File: VF062415.D

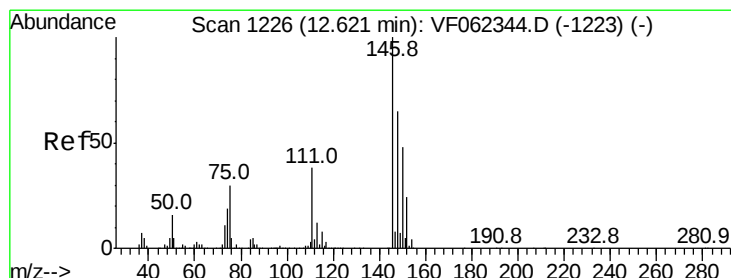
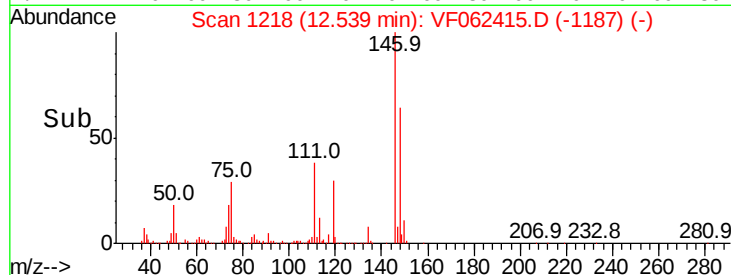
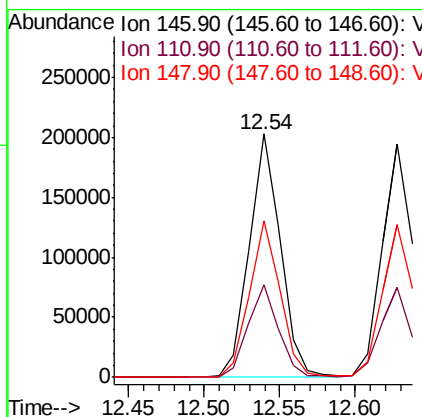
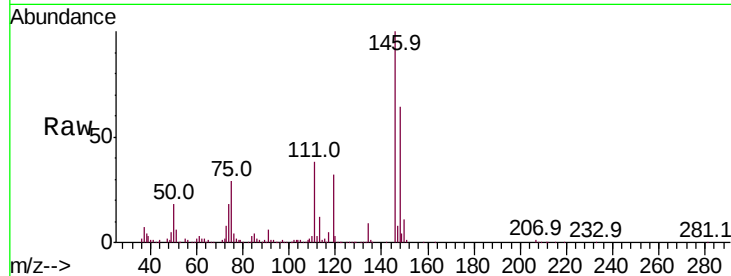
Acq: 10 May 2019 10:40

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
146	100	292958		
111	37.6	18.3	54.8	
148	63.7	32.3	96.9	

Manual Integrations
APPROVED

MMDadoda
5/11/2019 3:54:03 PM



#88

1,4-Dichlorobenzene

Concen: 46.490 ug/l

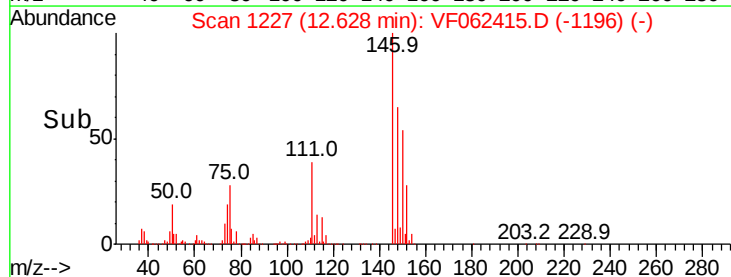
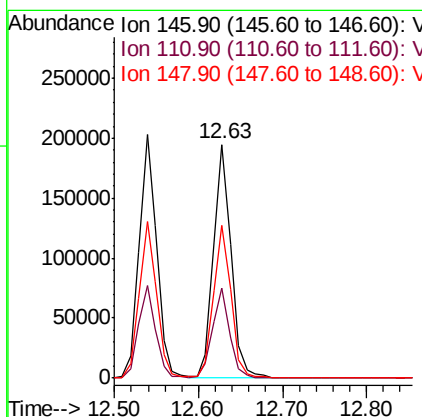
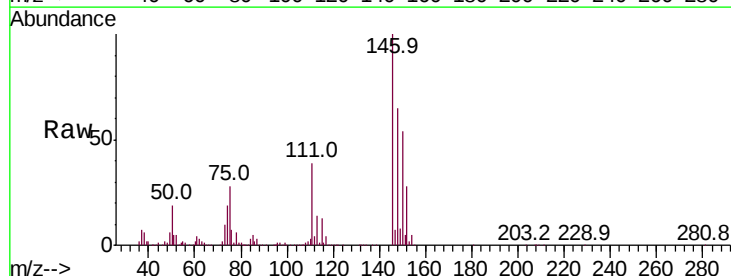
RT: 12.63 min Scan# 1227

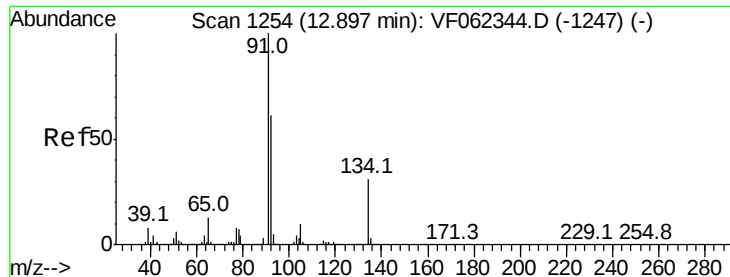
Delta R.T. 0.01 min

Lab File: VF062415.D

Acq: 10 May 2019 10:40

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	284756		
111	37.8	18.8	56.3	
148	65.1	32.2	96.6	





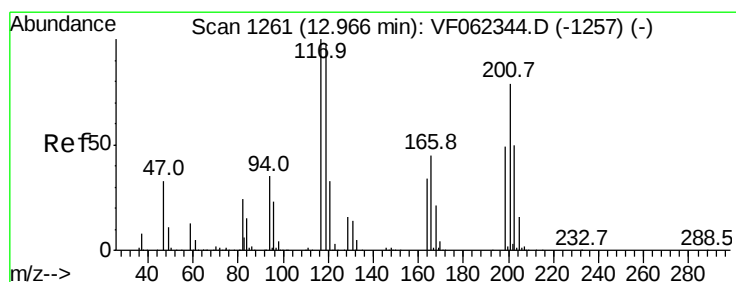
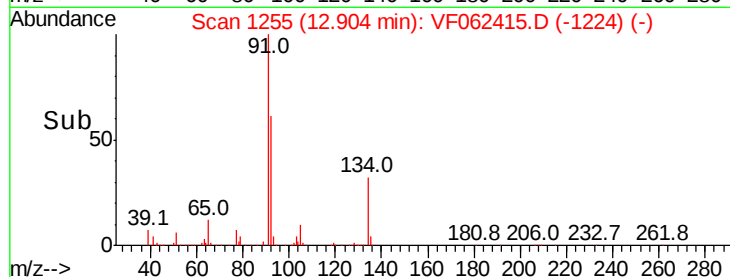
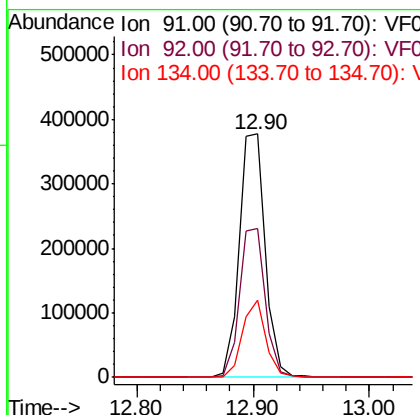
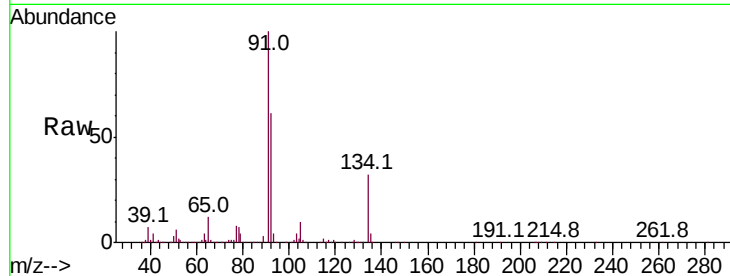
#89
n-Butylbenzene
Concen: 47.397 ug/l
RT: 12.90 min Scan# 1255
Delta R.T. 0.01 min
Lab File: VF062415.D
Acq: 10 May 2019 10:40

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
91	100	581595		
92	60.7		30.0	90.0
134	28.8		14.1	42.4

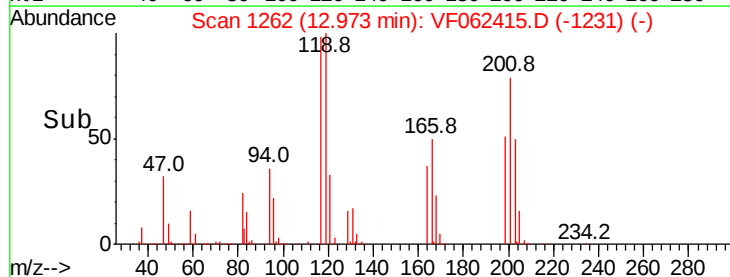
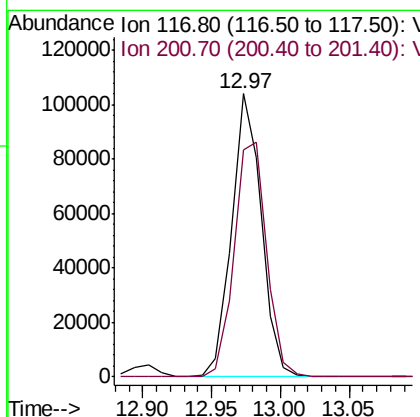
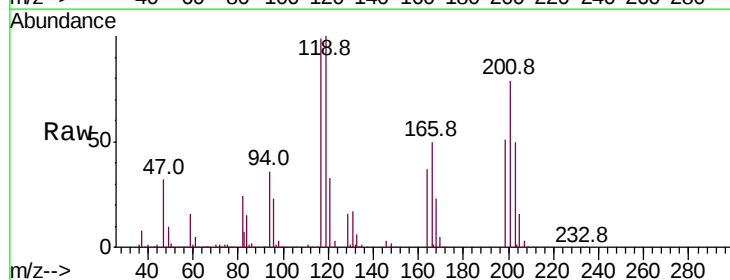
Manual Integrations
APPROVED

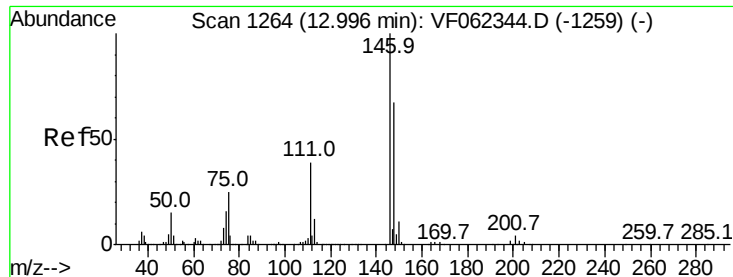
MMDadoda
5/11/2019 3:54:03 PM



#90
Hexachloroethane
Concen: 45.288 ug/l
RT: 12.97 min Scan# 1262
Delta R.T. 0.01 min
Lab File: VF062415.D
Acq: 10 May 2019 10:40

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	155958		
201	90.8		46.2	138.5





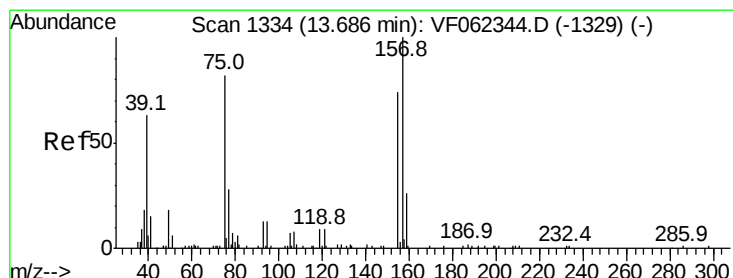
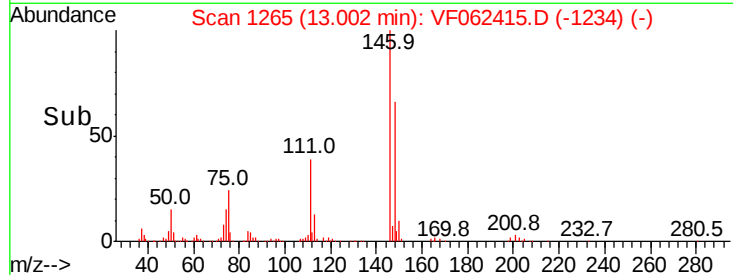
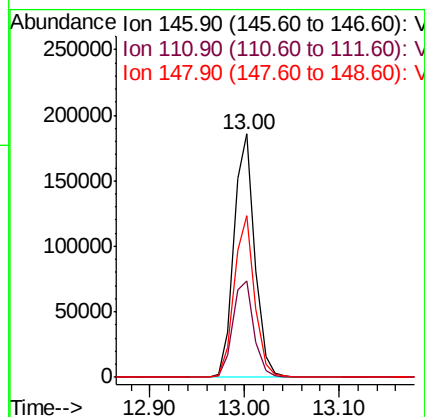
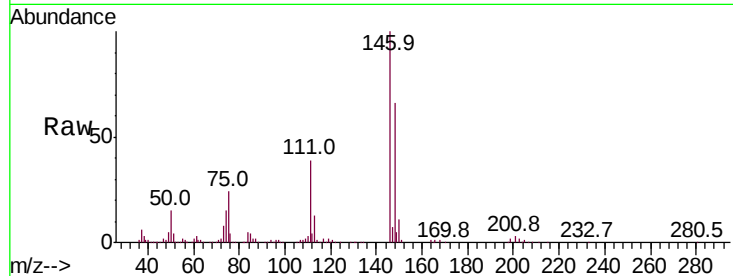
#91
1,2-Dichlorobenzene
Concen: 46.100 ug/l
RT: 13.00 min Scan# 1265
Delta R.T. 0.01 min
Lab File: VF062415.D
Acq: 10 May 2019 10:40

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
146	100	283171		
111	40.4	20.0	60.0	
148	65.1	33.1	99.5	

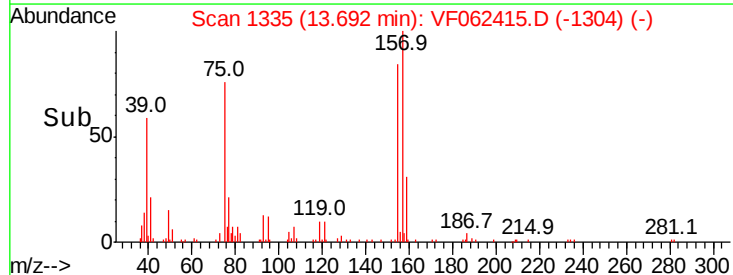
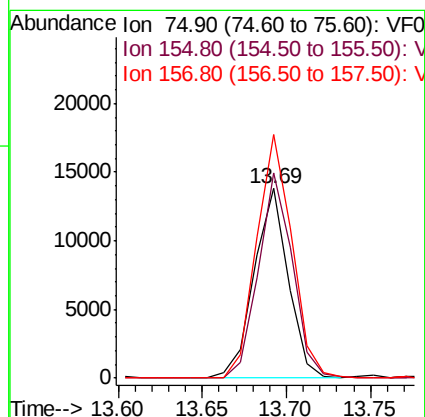
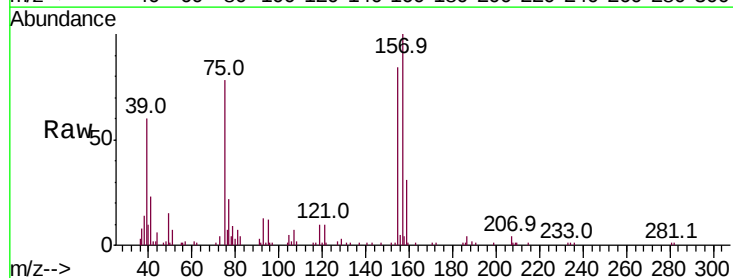
Manual Integrations
APPROVED

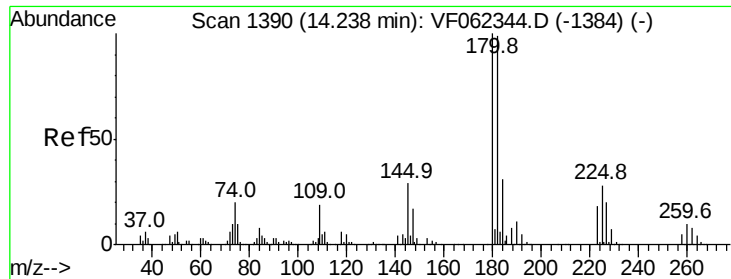
MMDadoda
5/11/2019 3:54:03 PM



#92
1,2-Dibromo-3-Chloropropane
Concen: 41.802 ug/l
RT: 13.69 min Scan# 1335
Delta R.T. 0.01 min
Lab File: VF062415.D
Acq: 10 May 2019 10:40

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	19414		
155	107.0	51.8	155.4	
157	132.3	67.3	201.8	





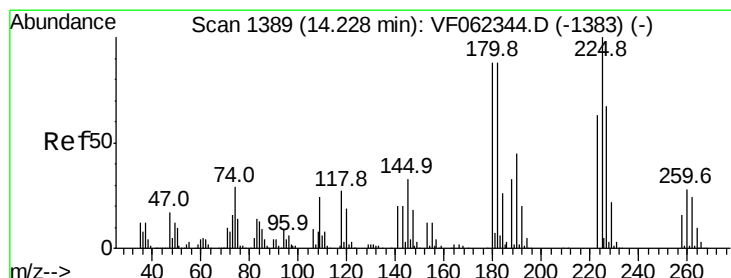
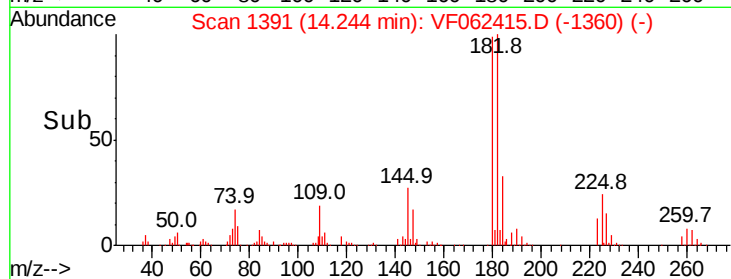
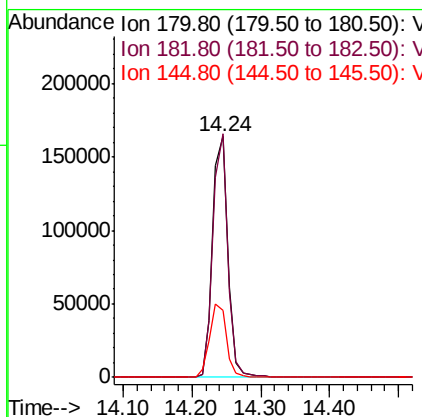
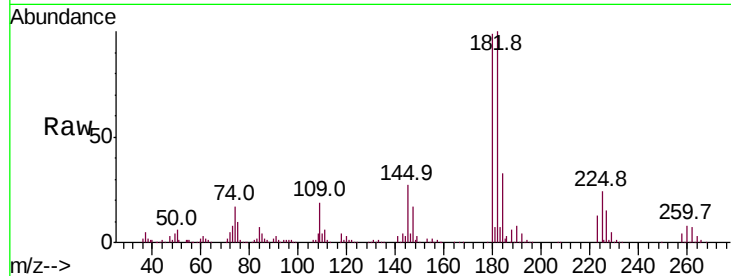
#93
 1,2,4-Trichlorobenzene
 Concen: 46.244 ug/l
 RT: 14.24 min Scan# 1391
 Delta R.T. 0.01 min
 Lab File: VF062415.D
 Acq: 10 May 2019 10:40

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	98.0	49.0	147.0	
145	33.4	16.7	50.1	

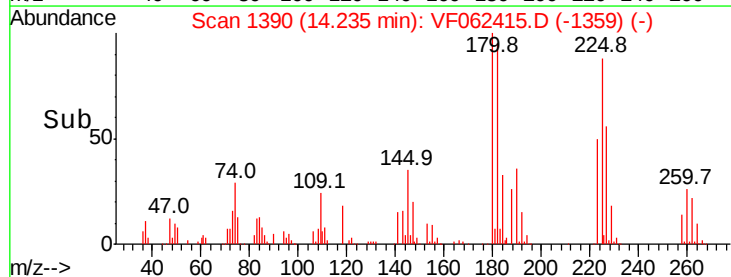
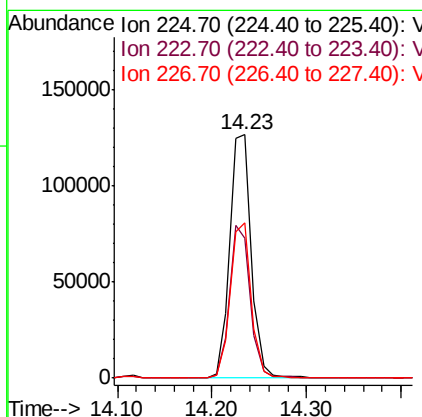
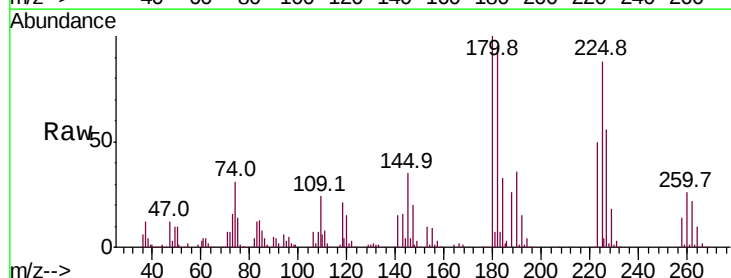
Manual Integrations
 APPROVED

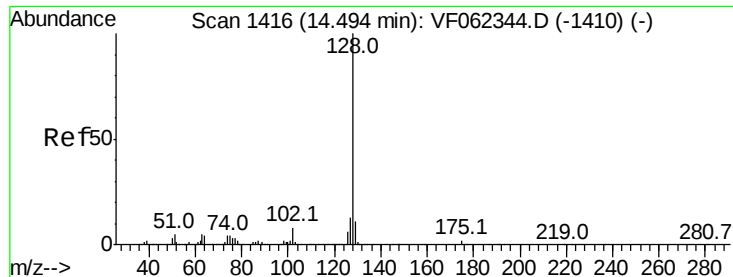
MMDadoda
 5/11/2019 3:54:03 PM



#94
 Hexachlorobutadiene
 Concen: 48.671 ug/l
 RT: 14.23 min Scan# 1390
 Delta R.T. 0.01 min
 Lab File: VF062415.D
 Acq: 10 May 2019 10:40

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	60.3	31.9	95.5	
227	62.1	33.1	99.5	





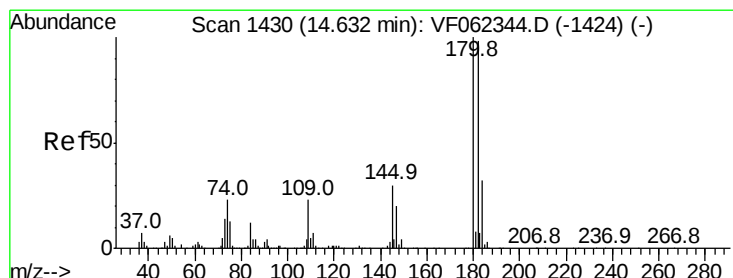
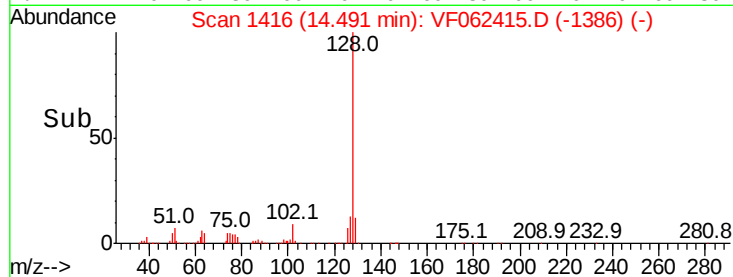
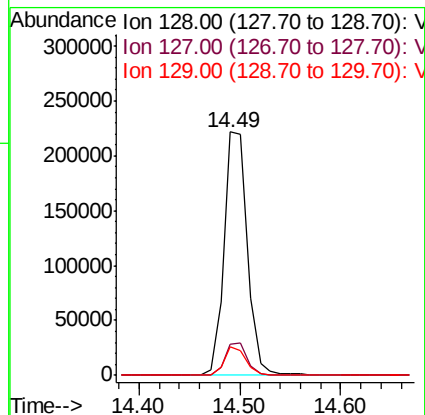
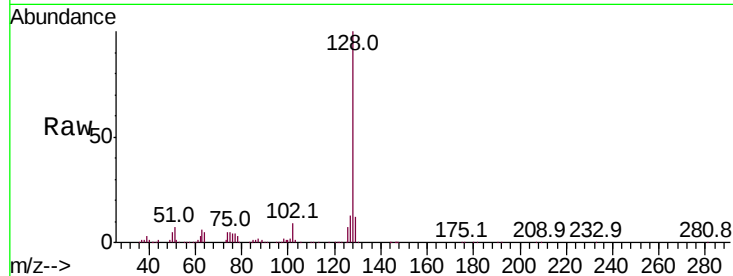
#95
Naphthalene
Concen: 43.235 ug/l
RT: 14.49 min Scan# 1416
Delta R.T. -0.00 min
Lab File: VF062415.D
Acq: 10 May 2019 10:40

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
128	100			
127	12.7	10.5	15.7	
129	11.0	8.6	12.8	

Manual Integrations
APPROVED

MMDadoda
5/11/2019 3:54:03 PM



#96
1,2,3-Trichlorobenzene
Concen: 47.154 ug/l
RT: 14.64 min Scan# 1431
Delta R.T. 0.01 min
Lab File: VF062415.D
Acq: 10 May 2019 10:40

Tgt Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.7	49.4	148.0	
145	28.3	14.8	44.3	

