

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031619\
 Data File : VF061974.D
 Acq On : 16 Mar 2019 11:39
 Operator : VA/AP
 Sample : VSTDIC020
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 3/22/2019 6:18:51 PM

Quant Time: Mar 22 03:14:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F031619S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:28:16 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	272596	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	417477	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	348559	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	188827	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	40940	20.86	ug/l	0.00
Spiked Amount			Recovery	=	41.72%	
35) Dibromofluoromethane	4.12	113	58814	20.98	ug/l	0.00
Spiked Amount			Recovery	=	41.96%	
50) Toluene-d8	7.55	98	173773	21.20	ug/l	0.00
Spiked Amount			Recovery	=	42.40%	
62) 4-Bromofluorobenzene	11.42	95	68502	21.04	ug/l	0.00
Spiked Amount			Recovery	=	42.08%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	66643	22.933	ug/l	84
3) Chloromethane	1.09	50	66620	22.559	ug/l #	84
4) Vinyl Chloride	1.14	62	64610	22.622	ug/l	98
5) Bromomethane	1.31	94	43097	21.480	ug/l #	79
6) Chloroethane	1.38	64	33972	23.041	ug/l	96
7) Trichlorofluoromethane	1.48	101	84426	22.312	ug/l	88
8) Diethyl Ether	1.63	74	17076	20.300	ug/l	86
9) 1,1,2-Trichlorotrifluoroet	1.82	101	58248	21.849	ug/l	98
10) Methyl Iodide	1.90	142	102885m	22.050	ug/l	
11) Tert butyl alcohol	2.57	59	12026	100.157	ug/l #	78
12) 1,1-Dichloroethene	1.79	96	49477	21.505	ug/l	92
13) Acrolein	2.00	56	14567	112.381	ug/l	96
14) Allyl chloride	2.10	41	72246	24.600	ug/l	92
15) Acrylonitrile	2.95	53	37188	101.848	ug/l	97
16) Acetone	2.25	43	46336	105.158	ug/l	94
17) Carbon Disulfide	1.82	76	151854	22.822	ug/l #	95
18) Methyl Acetate	2.35	43	19210	20.524	ug/l #	87
19) Methyl tert-butyl Ether	2.43	73	89593	21.491	ug/l	94
20) Methylene Chloride	2.18	84	48380m	21.327	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	52280	21.775	ug/l	96
22) Diisopropyl ether	2.80	45	158245	22.401	ug/l #	91
23) Vinyl Acetate	3.19	43	310783	111.602	ug/l	97
24) 1,1-Dichloroethane	2.88	63	91196	22.202	ug/l	99
25) 2-Butanone	4.34	43	89238	102.260	ug/l	95
26) 2,2-Dichloropropane	3.60	77	42852	22.118	ug/l	94
27) cis-1,2-Dichloroethene	3.48	96	68023	22.478	ug/l	96
28) Bromochloromethane	3.72	49	32442	19.035	ug/l	91
29) Tetrahydrofuran	4.08	42	41983	110.623	ug/l	94
30) Chloroform	3.86	83	108635	23.343	ug/l	94
31) Cyclohexane	3.70	56	91939	22.846	ug/l	97
32) 1,1,1-Trichloroethane	4.10	97	77397	25.042	ug/l	96
36) 1,1-Dichloropropene	4.28	75	83269	22.087	ug/l	99
37) Ethyl Acetate	4.12	43	37995	22.445	ug/l	92
38) Carbon Tetrachloride	3.98	117	63677	23.111	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031619\
 Data File : VF061974.D
 Acq On : 16 Mar 2019 11:39
 Operator : VA/AP
 Sample : VSTDIC020
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 3/22/2019 6:18:51 PM

Quant Time: Mar 22 03:14:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F031619S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:28:16 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.45	83	98235	22.195	ug/l	99
40) Benzene	4.63	78	231113	23.135	ug/l	98
41) Methacrylonitrile	4.75	41	17127	18.937	ug/l #	89
42) 1,2-Dichloroethane	4.95	62	53363	21.458	ug/l	97
43) Isopropyl Acetate	6.96	43	40930	20.436	ug/l #	97
44) Trichloroethene	5.50	130	67561	22.077	ug/l	97
45) 1,2-Dichloropropane	6.24	63	54821	23.189	ug/l	98
46) Dibromomethane	6.08	93	31912	22.691	ug/l	85
47) Bromodichloromethane	6.39	83	69718	21.027	ug/l	99
48) Methyl methacrylate	6.71	41	25632	19.802	ug/l #	85
49) 1,4-Dioxane	6.72	88	4759	413.330	ug/l #	74
51) 4-Methyl-2-Pentanone	8.26	43	154246	108.454	ug/l	98
52) Toluene	7.63	92	137907	22.594	ug/l	92
53) t-1,3-Dichloropropene	8.28	75	62376	22.284	ug/l	98
54) cis-1,3-Dichloropropene	7.30	75	80538	22.051	ug/l	97
55) 1,1,2-Trichloroethane	8.49	97	36733	21.563	ug/l	98
56) Ethyl methacrylate	8.63	69	42883	22.144	ug/l	89
57) 1,3-Dichloropropane	8.85	76	63002	22.171	ug/l	92
58) 2-Chloroethyl Vinyl ether	7.29	63	34453	98.225	ug/l	96
59) 2-Hexanone	9.49	43	104472	101.500	ug/l	96
60) Dibromochloromethane	8.71	129	50316	21.276	ug/l	91
61) 1,2-Dibromoethane	8.99	107	39570	21.655	ug/l	97
64) Tetrachloroethene	8.15	164	56171	22.170	ug/l	95
65) Chlorobenzene	9.80	112	147824	22.779	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.94	131	59314	23.580	ug/l	97
67) Ethyl Benzene	9.90	91	259152	23.323	ug/l	98
68) m/p-Xylenes	10.13	106	200748	48.036	ug/l	94
69) o-Xylene	10.72	106	99668	22.288	ug/l	90
70) Styrene	10.80	104	145496	23.485	ug/l	98
71) Bromoform	10.78	173	26636	20.934	ug/l	88
73) Isopropylbenzene	11.12	105	303833	23.291	ug/l	97
74) N-amyl acetate	11.38	43	63877	21.370	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.69	83	46748	21.710	ug/l	94
76) 1,2,3-Trichloropropane	11.79	75	32072	21.300	ug/l	95
77) Bromobenzene	11.50	156	68543	22.688	ug/l	93
78) n-propylbenzene	11.59	91	353825	23.588	ug/l	96
79) 2-Chlorotoluene	11.72	91	187337	22.126	ug/l	99
80) 1,3,5-Trimethylbenzene	11.82	105	241278	22.896	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.87	75	15283m	22.944	ug/l	
82) 4-Chlorotoluene	11.90	91	193469	22.596	ug/l	98
83) tert-Butylbenzene	12.13	119	260109	23.602	ug/l	99
84) 1,2,4-Trimethylbenzene	12.21	105	238490	22.595	ug/l	96
85) sec-Butylbenzene	12.30	105	338390	22.726	ug/l	100
86) p-Isopropyltoluene	12.46	119	283163	22.791	ug/l	96
87) 1,3-Dichlorobenzene	12.47	146	135098	22.753	ug/l	99
88) 1,4-Dichlorobenzene	12.57	146	128560	22.495	ug/l	95
89) n-Butylbenzene	12.85	91	273116	23.393	ug/l	96
90) Hexachloroethane	12.92	117	65274	23.021	ug/l	91
91) 1,2-Dichlorobenzene	12.94	146	124761	22.687	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.64	75	7138	20.658	ug/l	82

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031619\
Data File : VF061974.D
Acq On : 16 Mar 2019 11:39
Operator : VA/AP
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VSTDICC020

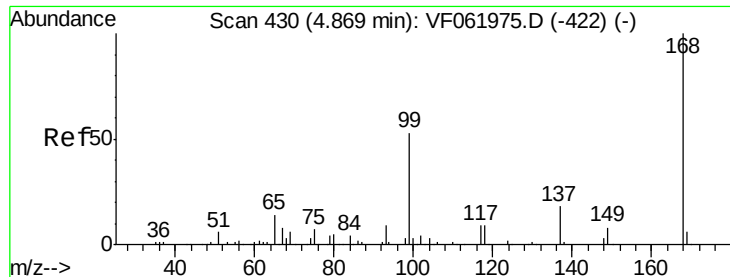
Manual Integrations
APPROVED

MMDadoda
3/22/2019 6:18:51 PM

Quant Time: Mar 22 03:14:57 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F031619S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 22 02:28:16 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	86982	22.713	ug/l	96
94) Hexachlorobutadiene	14.19	225	55963	22.013	ug/l	96
95) Naphthalene	14.45	128	143578	20.846	ug/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	79225	22.487	ug/l	99

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



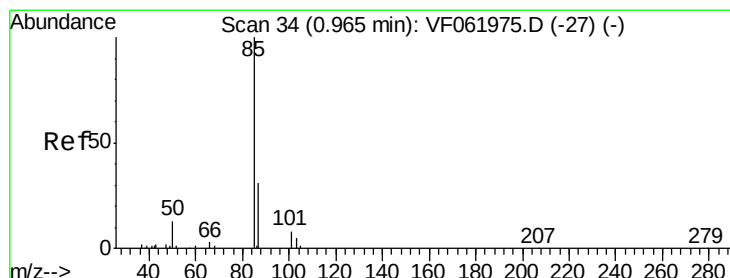
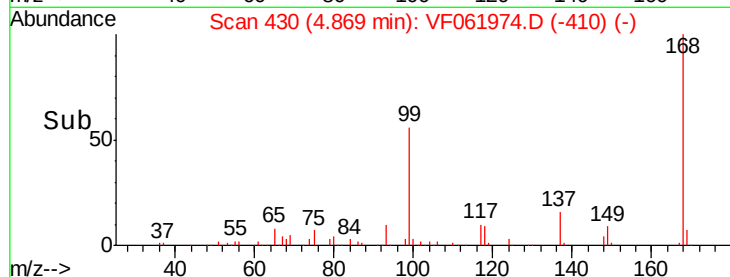
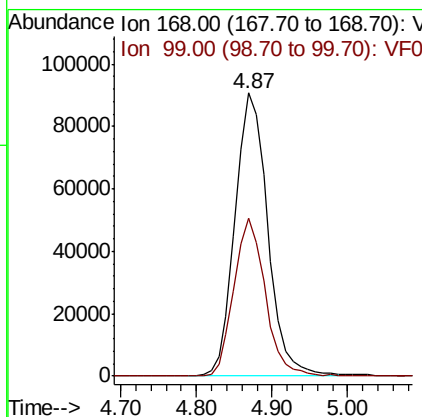
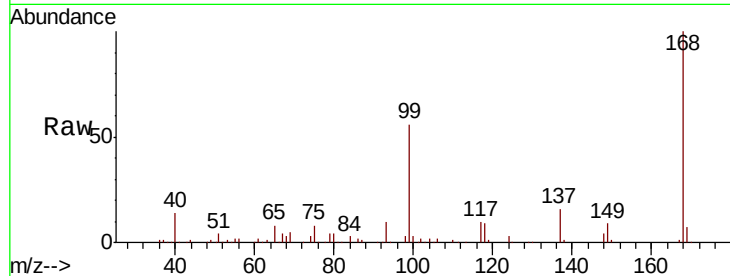
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.87 min Scan# 430
Delta R.T. -0.00 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
168	100		
99	55.8	42.4	63.6

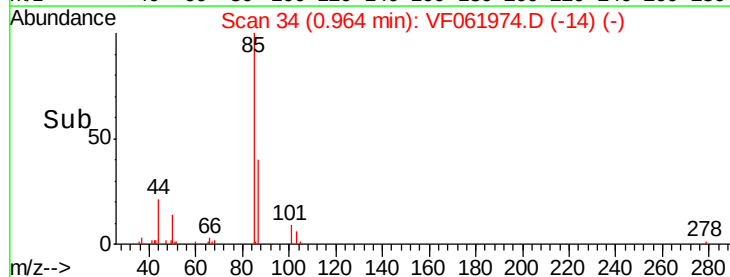
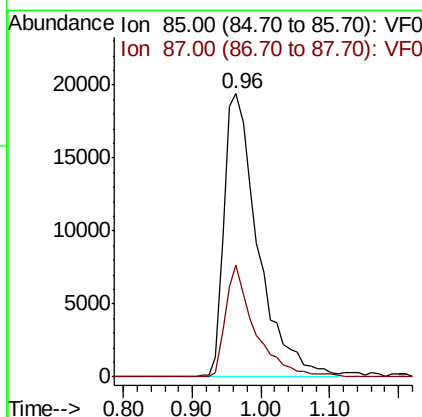
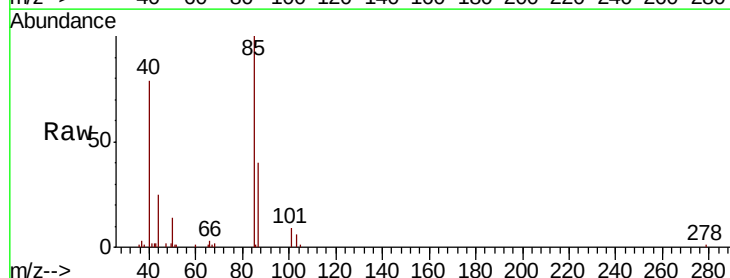
Manual Integrations
APPROVED

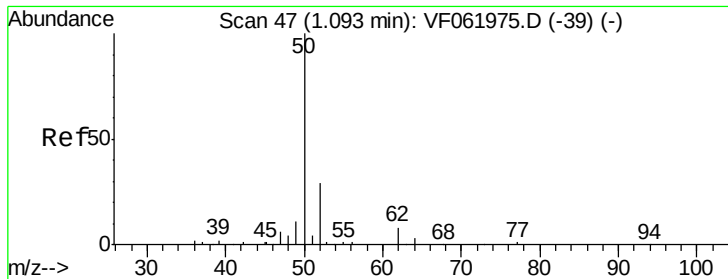
MMDadoda
3/22/2019 6:18:51 PM



#2
Dichlorodifluoromethane
Concen: 22.933 ug/l
RT: 0.96 min Scan# 34
Delta R.T. -0.00 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Tgt Ion	Ratio	Lower	Upper
85	100		
87	39.7	15.4	46.2





#3

Chloromethane

Concen: 22.559 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 66620

Ion Ratio Lower Upper

50 100

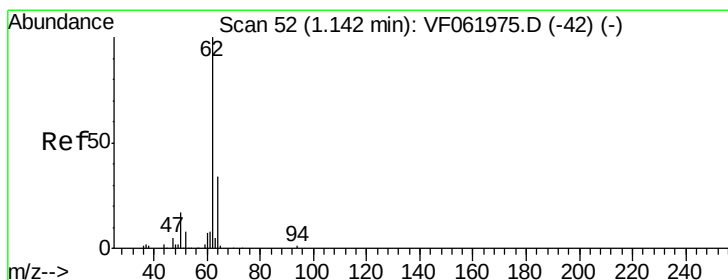
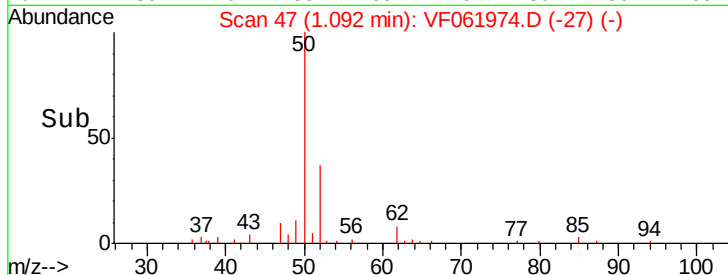
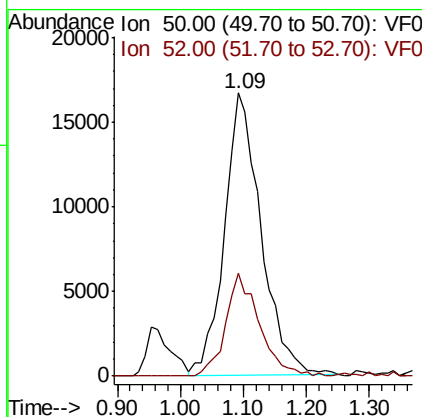
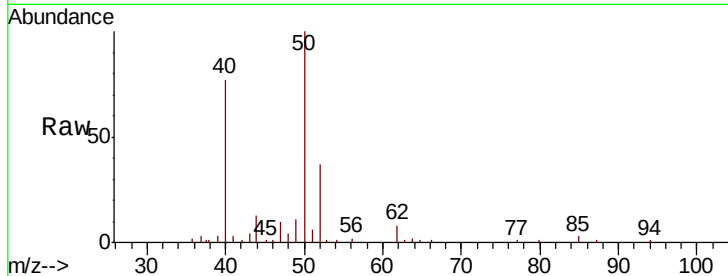
52 36.5 22.6 34.0#

Manual Integrations

APPROVED

MMDadoda

3/22/2019 6:18:51 PM



#4

Vinyl Chloride

Concen: 22.622 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.00 min

Lab File: VF061974.D

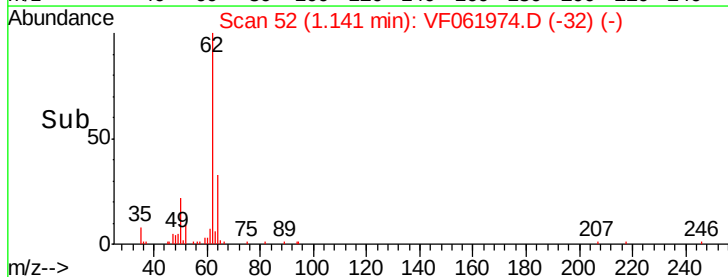
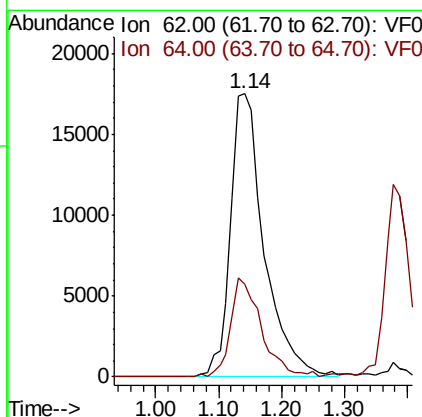
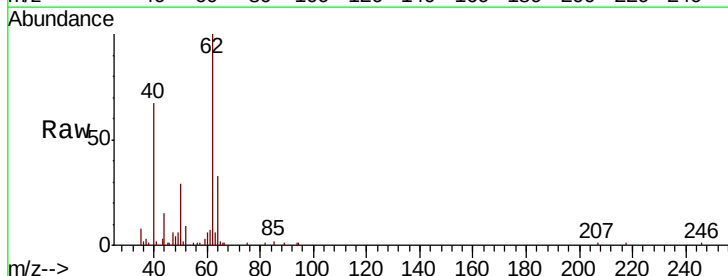
Acq: 16 Mar 2019 11:39

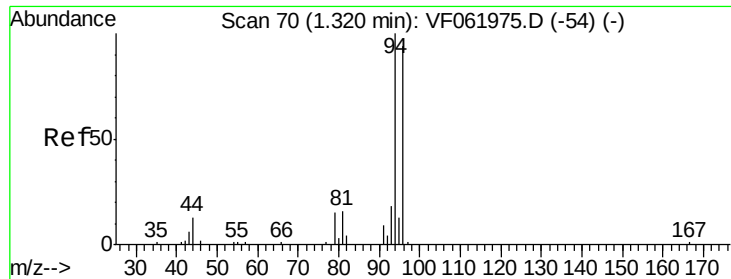
Tgt Ion: 62 Resp: 64610

Ion Ratio Lower Upper

62 100

64 32.9 27.4 41.2





#5

Bromomethane

Concen: 21.480 ug/l

RT: 1.31 min Scan# 69

Delta R.T. -0.01 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 94 Resp: 43097

Ion Ratio Lower Upper

94 100

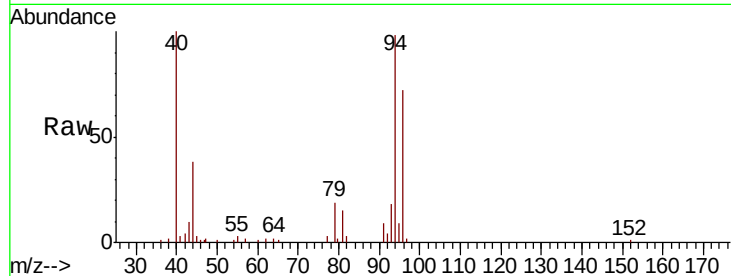
96 73.7 75.0 112.6#

Manual Integrations

APPROVED

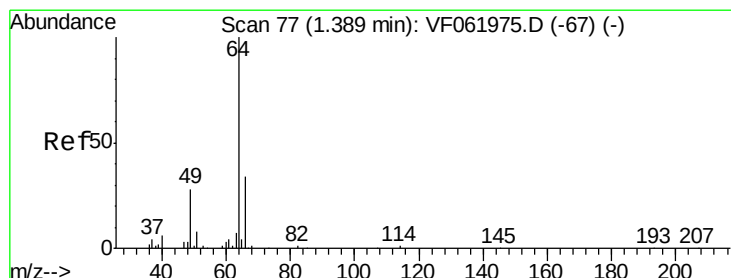
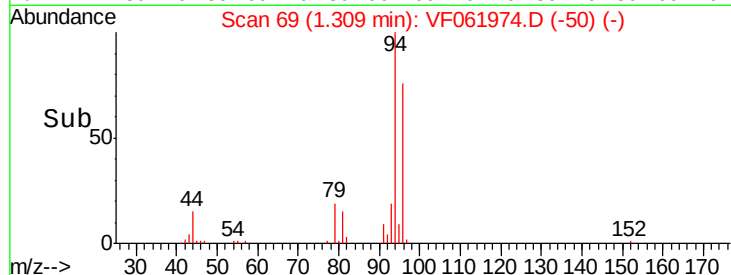
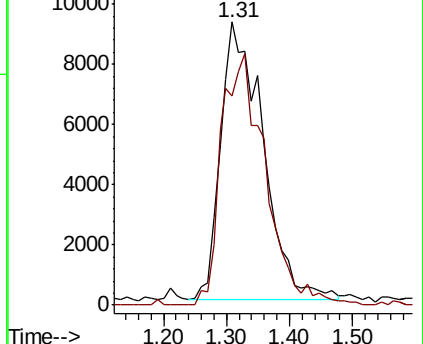
MMDadoda

3/22/2019 6:18:51 PM



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 23.041 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.01 min

Lab File: VF061974.D

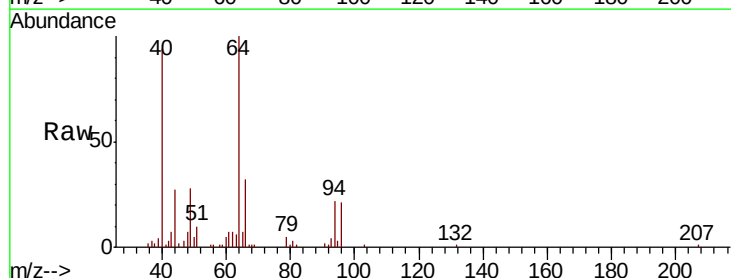
Acq: 16 Mar 2019 11:39

Tgt Ion: 64 Resp: 33972

Ion Ratio Lower Upper

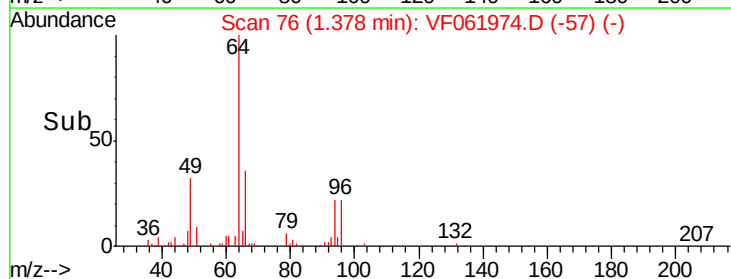
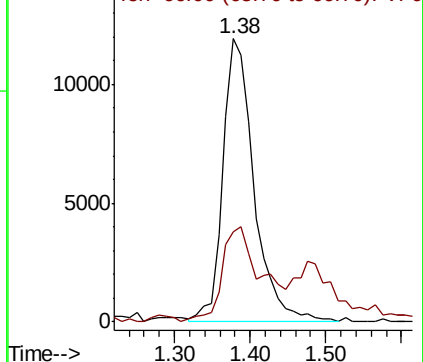
64 100

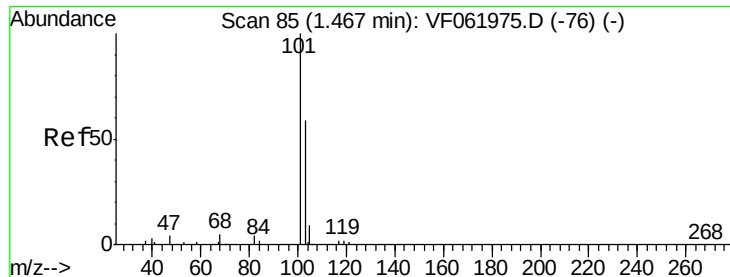
66 32.0 27.6 41.4



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

Trichlorofluoromethane

Concen: 22.312 ug/l

RT: 1.48 min Scan# 86

Delta R.T. 0.01 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:101 Resp: 84426

Ion Ratio Lower Upper

101 100

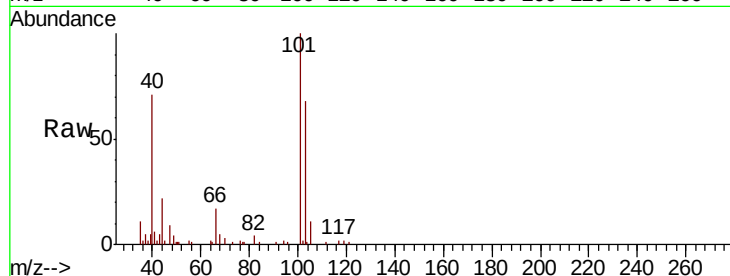
103 68.3 47.3 70.9

Manual Integrations

APPROVED

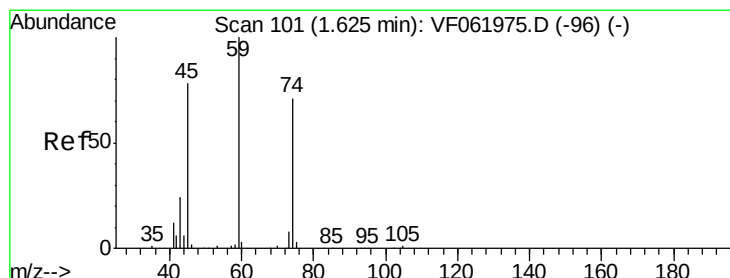
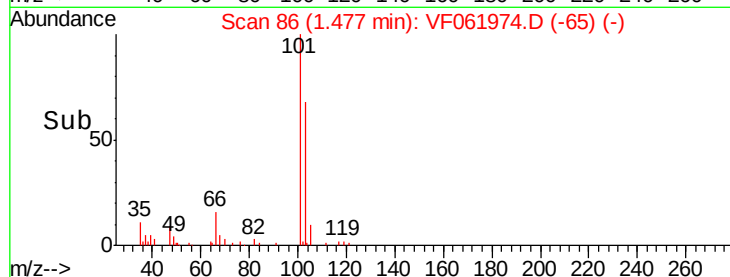
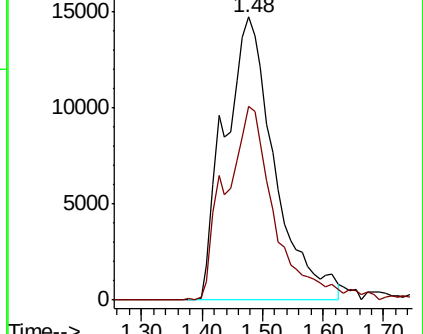
MMDadoda

3/22/2019 6:18:51 PM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 20.300 ug/l

RT: 1.63 min Scan# 102

Delta R.T. 0.01 min

Lab File: VF061974.D

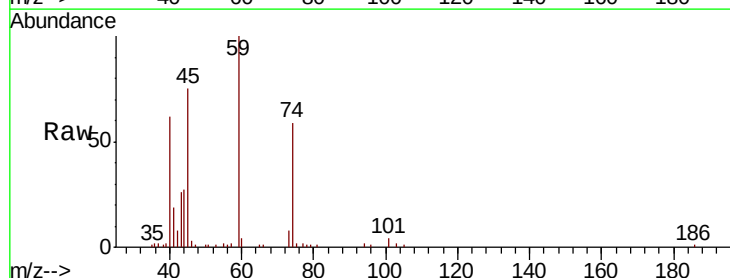
Acq: 16 Mar 2019 11:39

Tgt Ion: 74 Resp: 17076

Ion Ratio Lower Upper

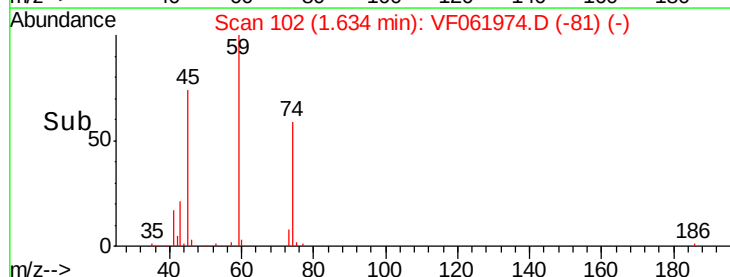
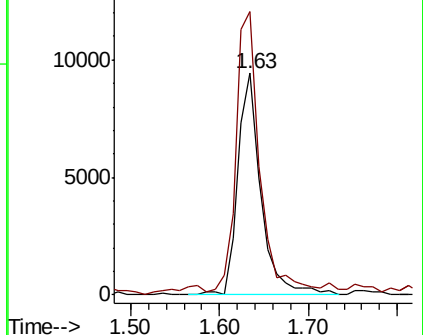
74 100

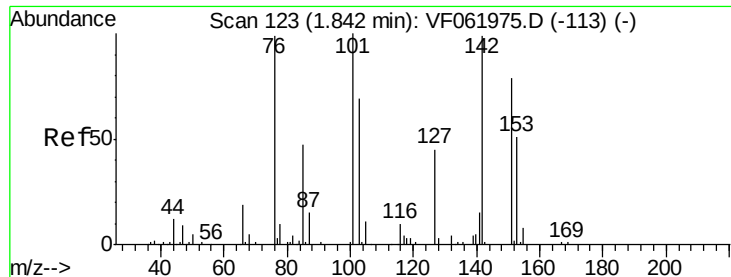
45 127.8 56.3 168.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.849 ug/l

RT: 1.82 min Scan# 121

Delta R.T. -0.02 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

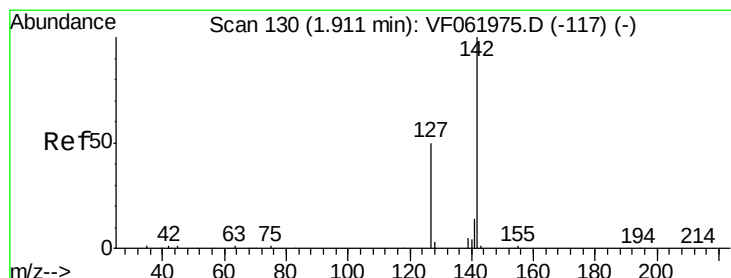
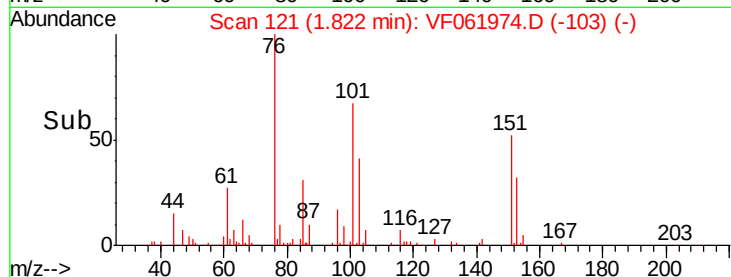
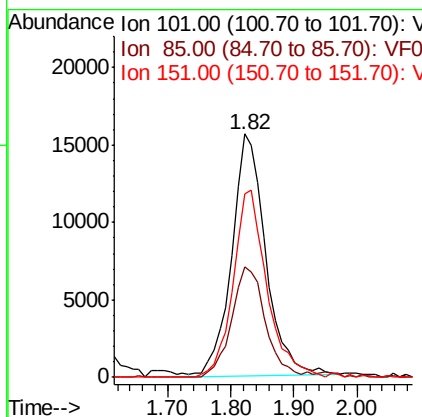
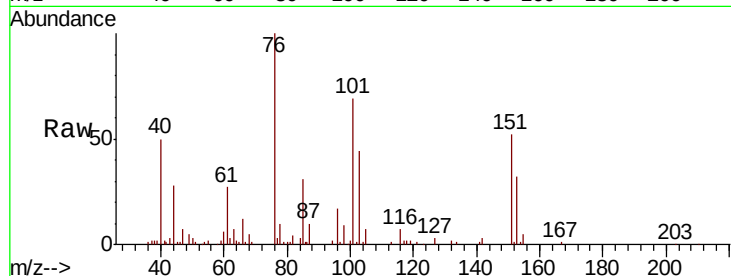
ClientSampleId :

VSTDIC020

Tot Ion:	101	Resp:	58248
Ion Ratio	Lower	Upper	
101	100		
85	45.3	36.8	55.2
151	75.3	62.2	93.2

Manual Integrations
APPROVED

MMDadoda
3/22/2019 6:18:51 PM



#10

Methyl Iodide

Concen: 22.050 ug/l m

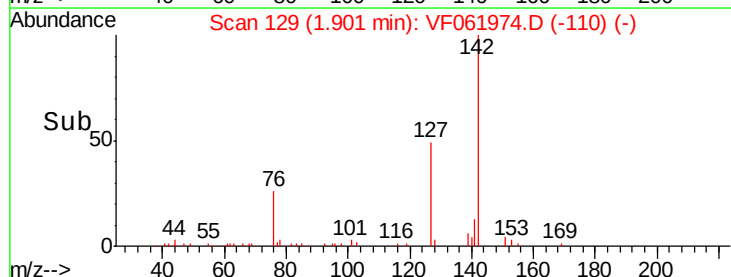
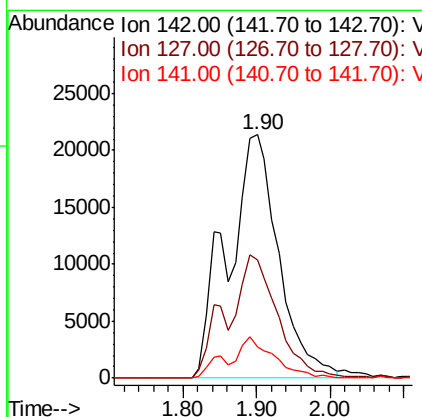
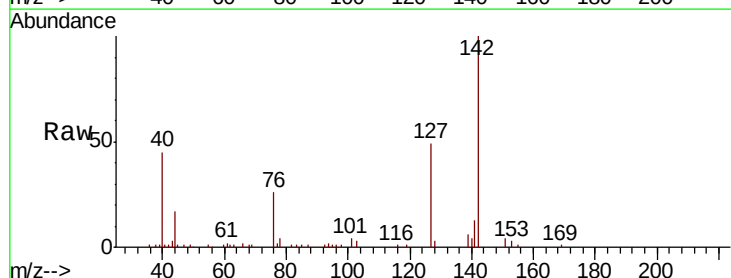
RT: 1.90 min Scan# 129

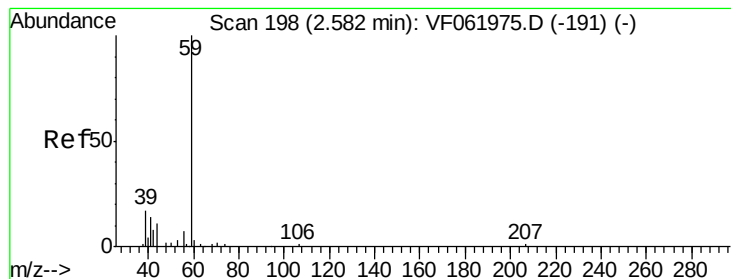
Delta R.T. -0.01 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Tgt Ion:	142	Resp:	102885
Ion Ratio	Lower	Upper	
142	100		
127	48.7	39.7	59.5
141	12.7	10.8	16.2





#11

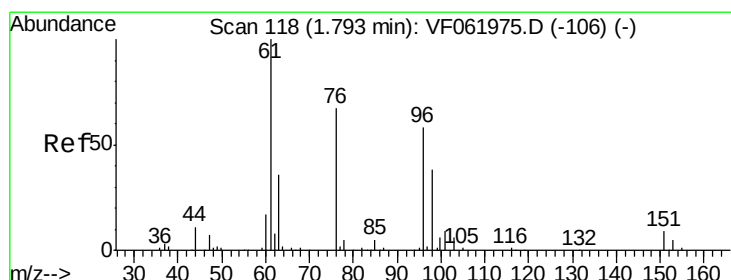
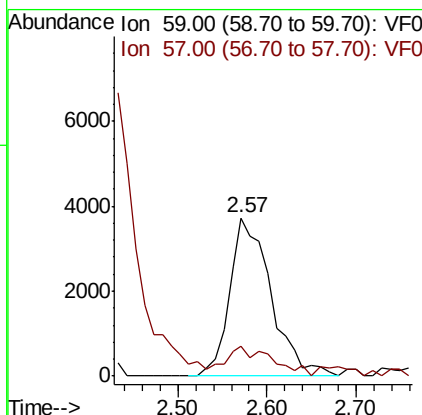
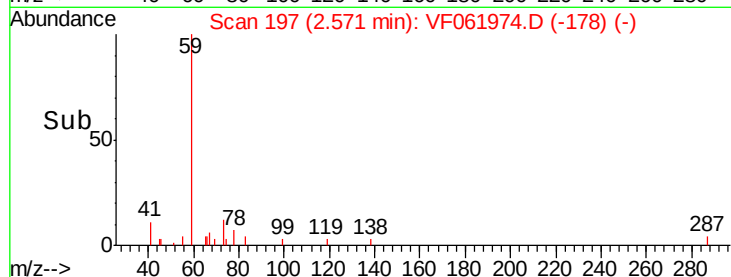
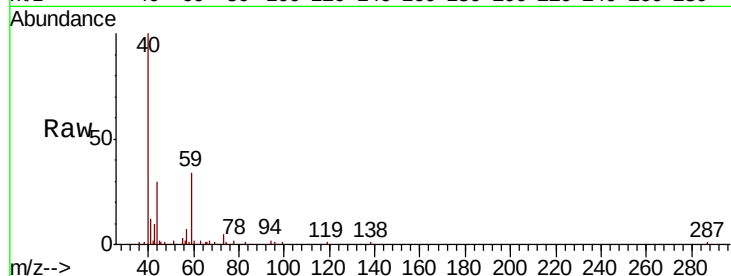
Tert butyl alcohol
Concen: 100.157 ug/l
RT: 2.57 min Scan# 197
Delta R.T. -0.01 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion: 59 Resp: 12026
Ion Ratio Lower Upper
59 100
57 19.2 8.7 13.1#

Manual Integrations
APPROVED

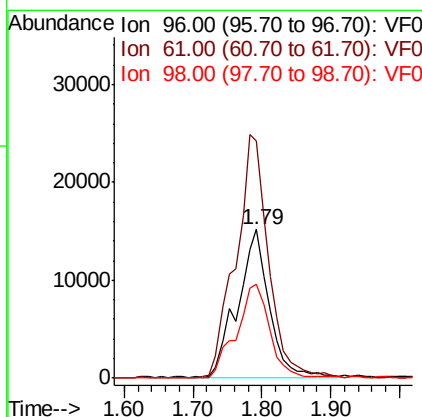
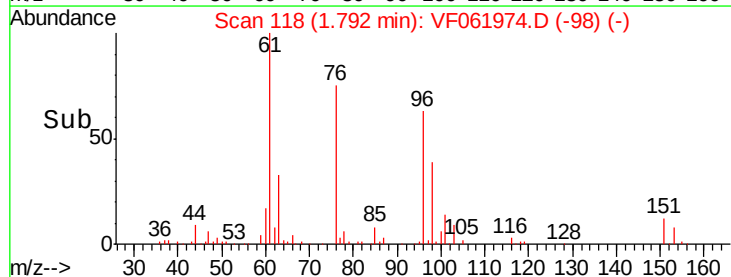
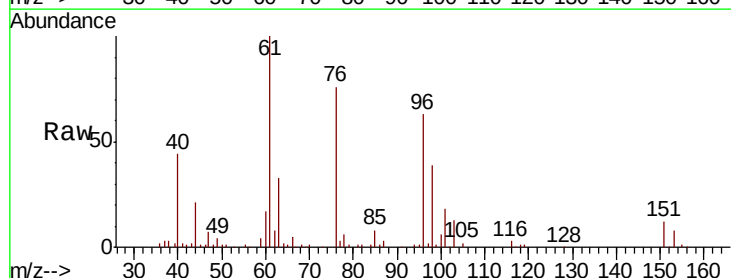
MMDadoda
3/22/2019 6:18:51 PM

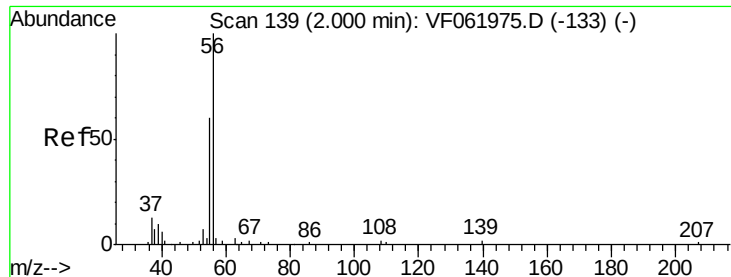


#12

1,1-Dichloroethene
Concen: 21.505 ug/l
RT: 1.79 min Scan# 118
Delta R.T. -0.00 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Tgt Ion: 96 Resp: 49477
Ion Ratio Lower Upper
96 100
61 159.7 138.6 208.0
98 63.1 53.2 79.8





#13

Acrolein

Concen: 112.381 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 56 Resp: 14567

Ion Ratio Lower Upper

56 100

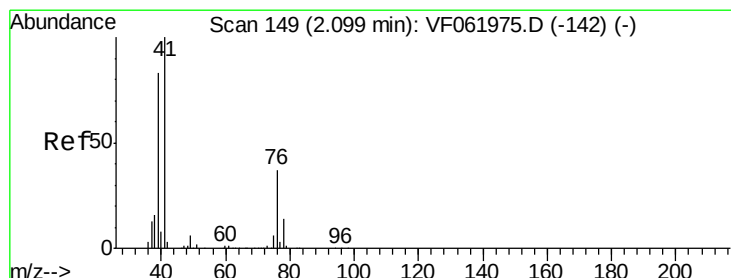
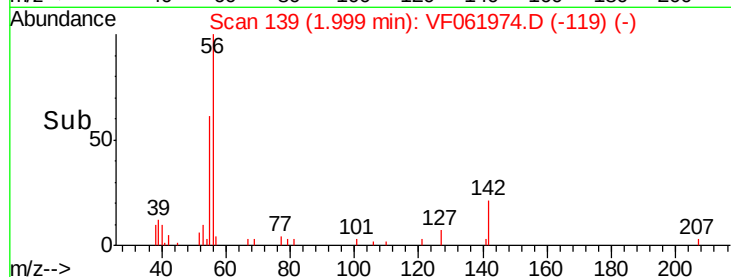
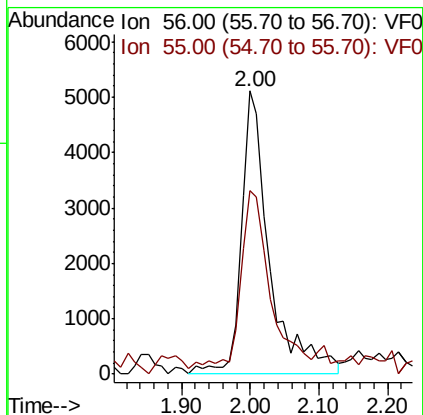
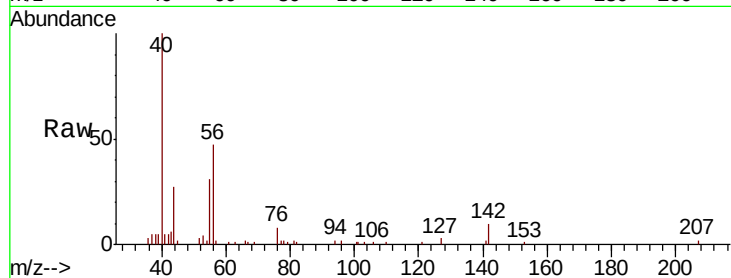
55 64.8 49.1 73.7

Manual Integrations

APPROVED

MMDadoda

3/22/2019 6:18:51 PM



#14

Allyl chloride

Concen: 24.600 ug/l

RT: 2.10 min Scan# 149

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

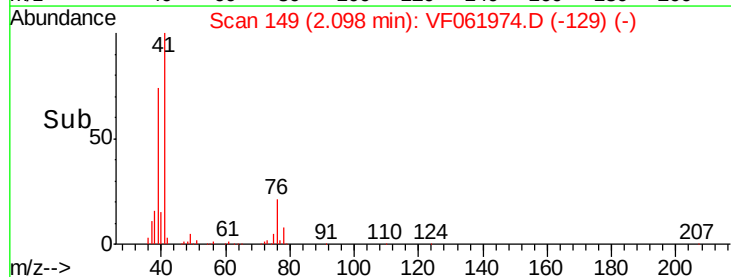
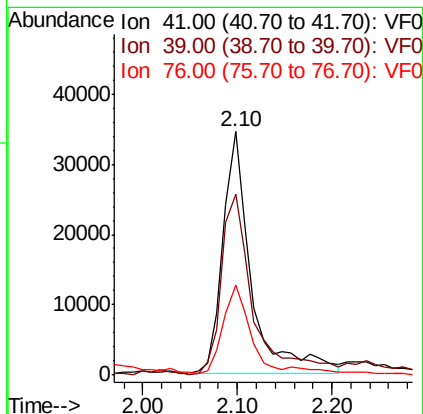
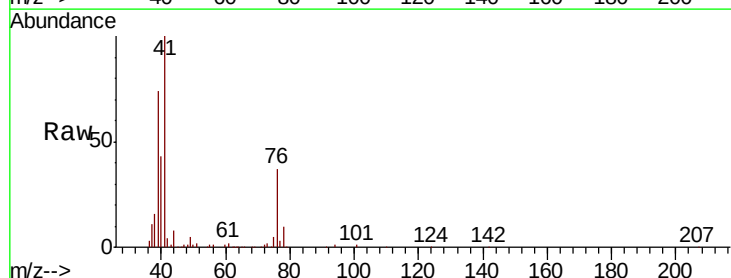
Tgt Ion: 41 Resp: 72246

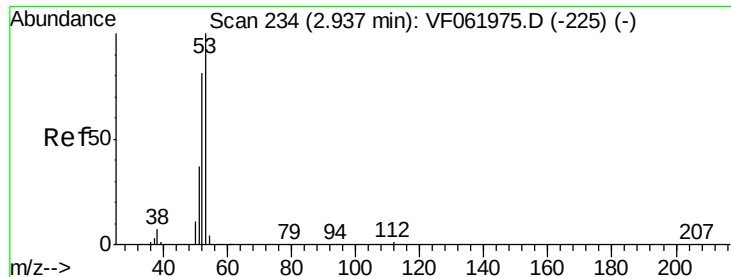
Ion Ratio Lower Upper

41 100

39 74.4 66.8 100.2

76 36.8 31.1 46.7





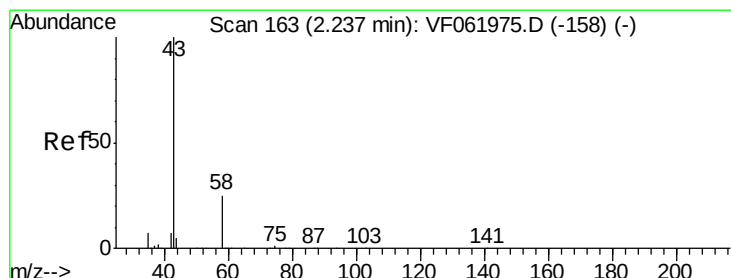
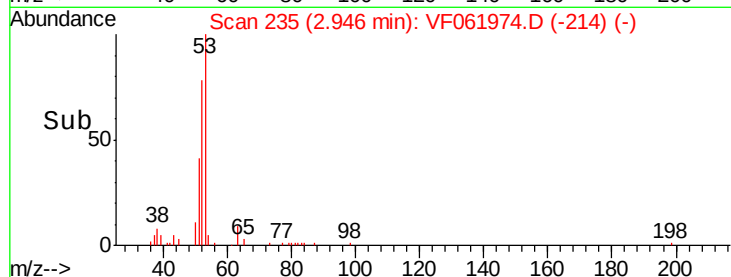
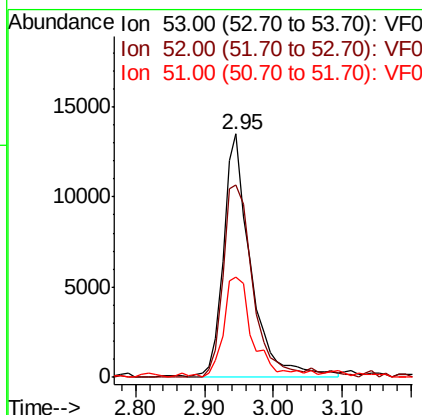
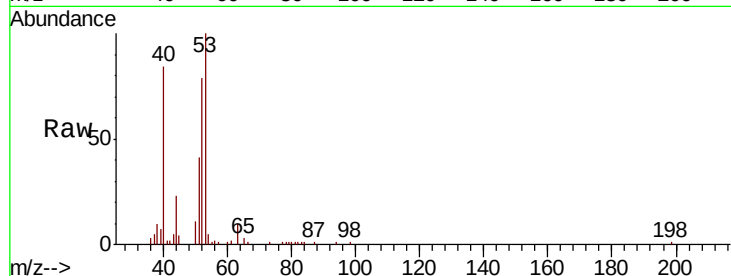
#15
Acrylonitrile
Concen: 101.848 ug/l
RT: 2.95 min Scan# 235
Delta R.T. 0.01 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion:	53	Resp:	37188
Ion	Ratio	Lower	Upper
53	100		
52	79.2	64.4	96.6
51	41.3	30.3	45.5

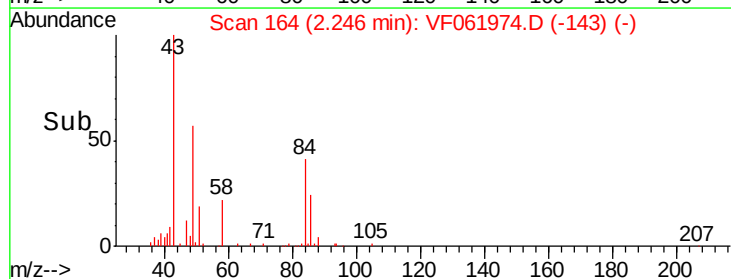
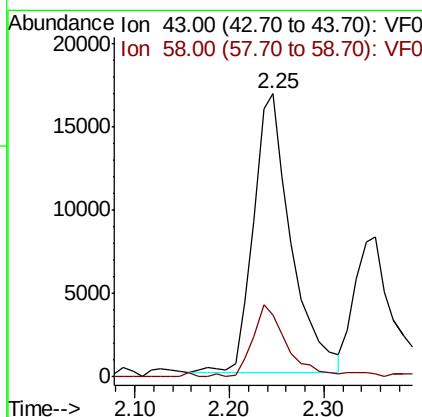
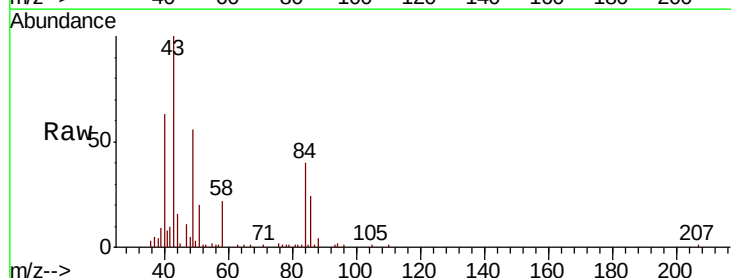
Manual Integrations
APPROVED

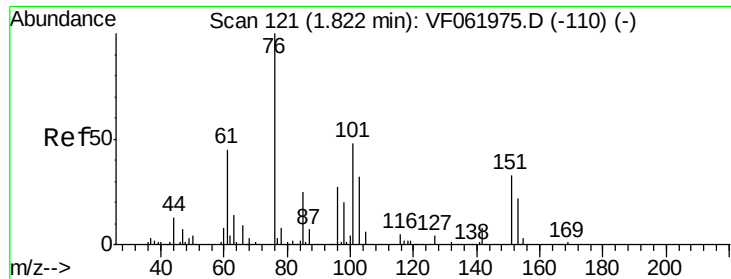
MMDadoda
3/22/2019 6:18:51 PM



#16
Acetone
Concen: 105.158 ug/l
RT: 2.25 min Scan# 164
Delta R.T. 0.01 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Tgt Ion:	43	Resp:	46336
Ion	Ratio	Lower	Upper
43	100		
58	22.1	19.9	29.9





#17

Carbon Disulfide

Concen: 22.822 ug/l

RT: 1.82 min Scan# 121

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 151854

Ion Ratio Lower Upper

76 100

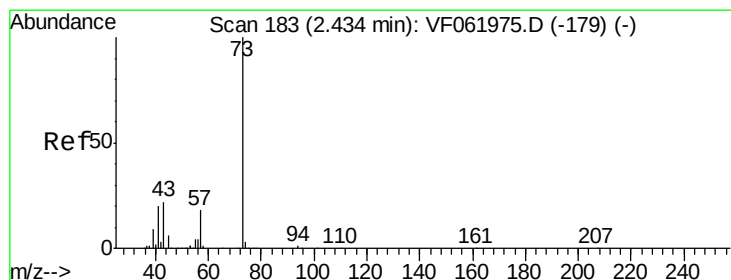
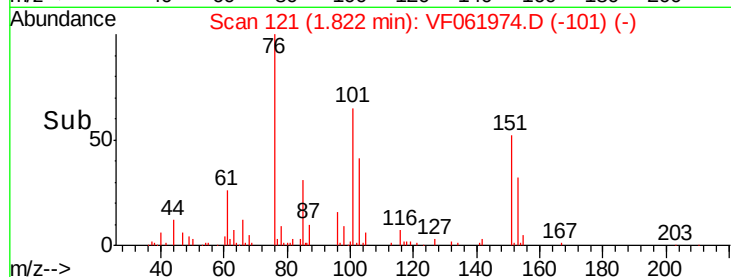
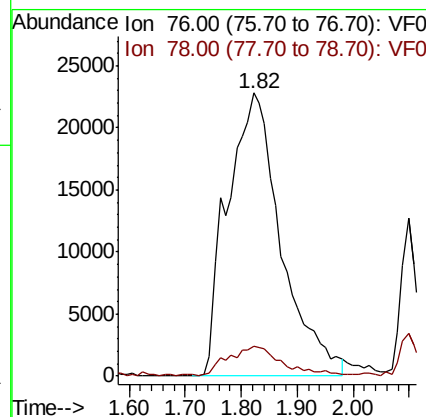
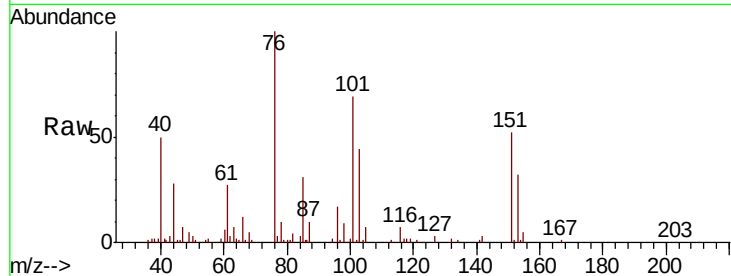
78 10.4 6.8 10.2#

Manual Integrations

APPROVED

MMDadoda

3/22/2019 6:18:51 PM



#18

Methyl Acetate

Concen: 20.524 ug/l

RT: 2.35 min Scan# 175

Delta R.T. 0.01 min

Lab File: VF061974.D

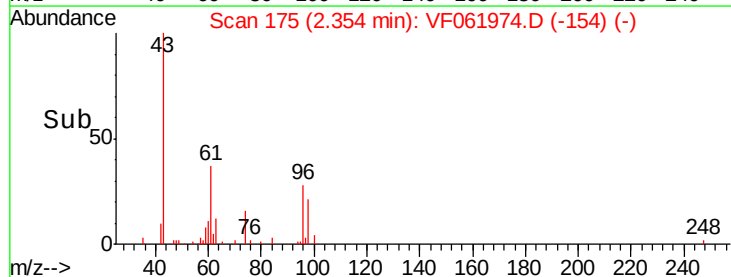
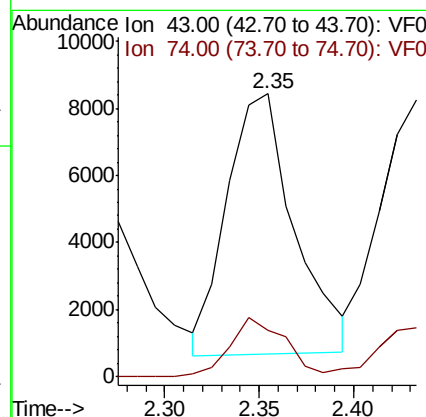
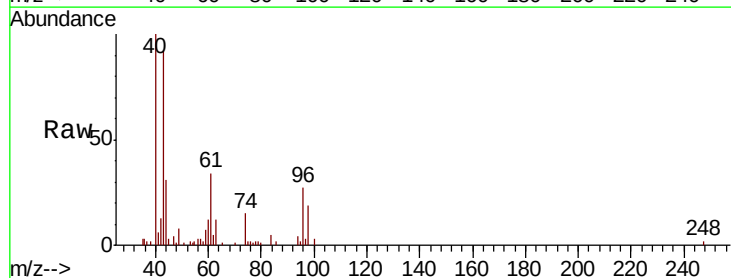
Acq: 16 Mar 2019 11:39

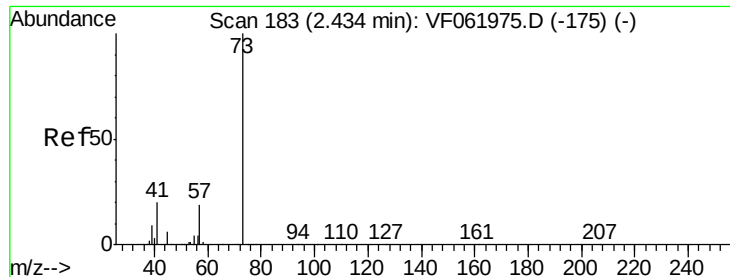
Tgt Ion: 43 Resp: 19210

Ion Ratio Lower Upper

43 100

74 16.4 18.3 27.5#





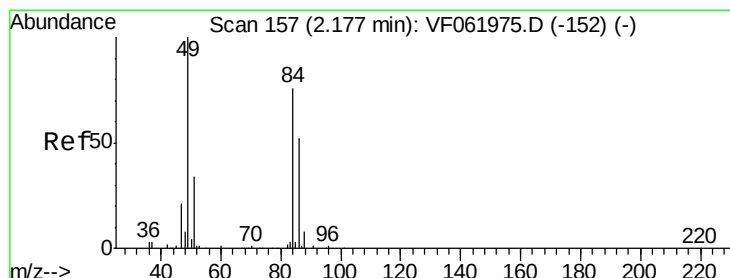
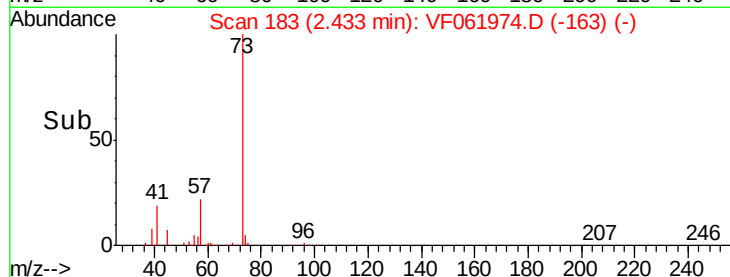
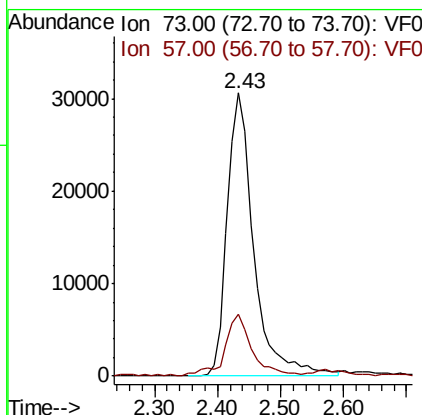
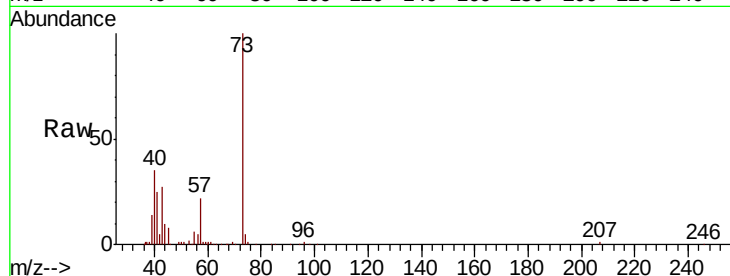
#19
Methyl tert-butyl Ether
Concen: 21.491 ug/l
RT: 2.43 min Scan# 183
Delta R.T. -0.00 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
73	100		
57	21.8	15.3	22.9

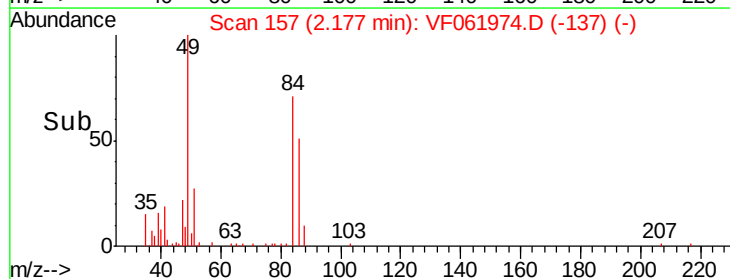
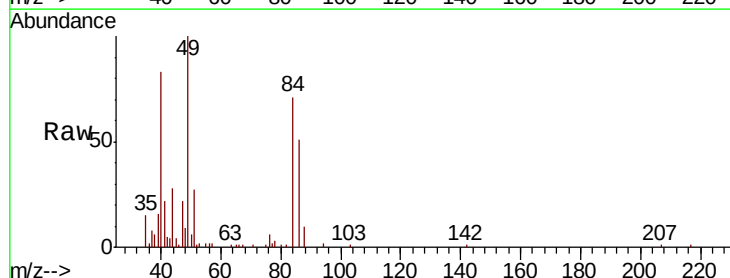
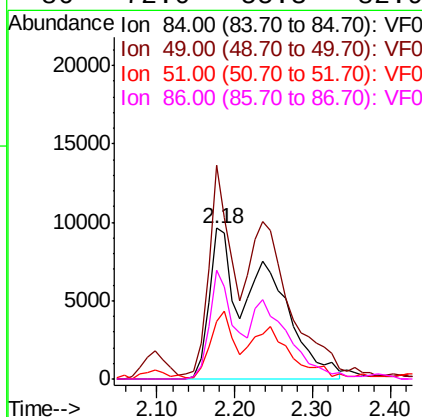
Manual Integrations
APPROVED

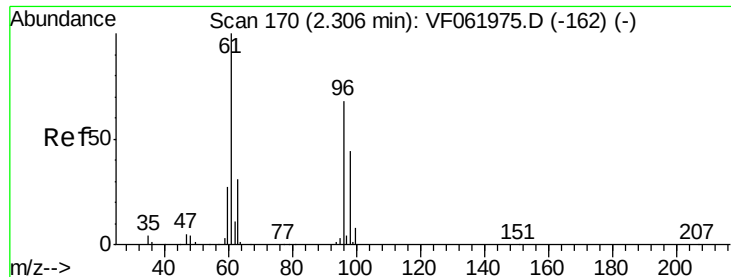
MMDadoda
3/22/2019 6:18:51 PM



#20
Methylene Chloride
Concen: 21.327 ug/l m
RT: 2.18 min Scan# 157
Delta R.T. -0.00 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Tgt Ion	Ratio	Lower	Upper
84	100		
49	141.5	107.0	160.6
51	38.3	37.2	55.8
86	72.0	55.3	82.9





#21

trans-1,2-Dichloroethene

Concen: 21.775 ug/l

RT: 2.31 min Scan# 170

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

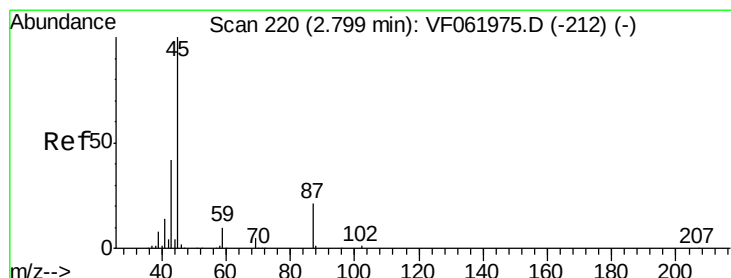
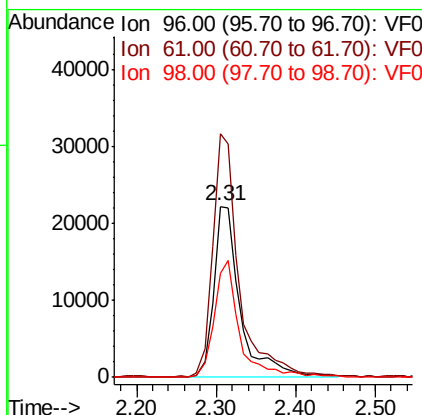
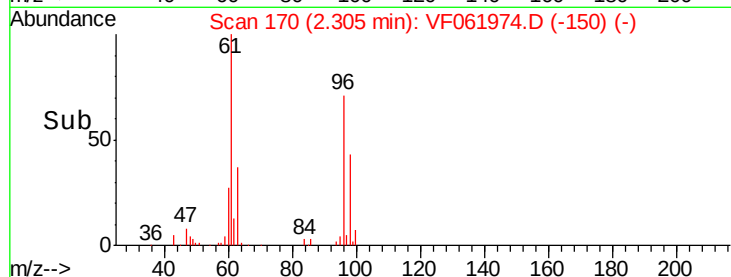
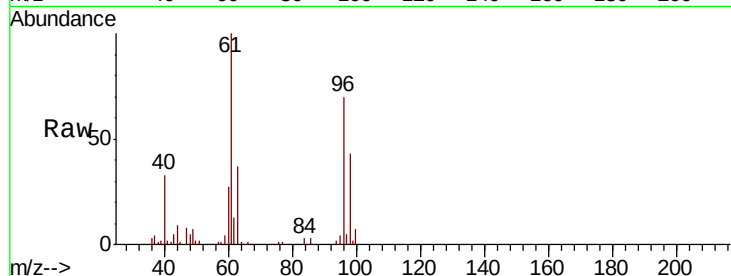
ClientSampleId :

VSTDIC020

Tot Ion:	96	Resp:	52280
Ion	Ratio	Lower	Upper
96	100		
61	142.3	117.4	176.2
98	60.7	51.2	76.8

Manual Integrations
APPROVED

MMDadoda
3/22/2019 6:18:51 PM



#22

Diisopropyl ether

Concen: 22.401 ug/l

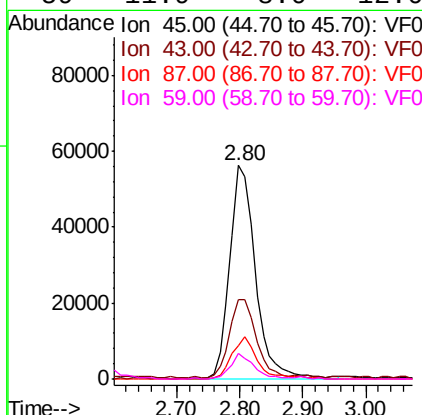
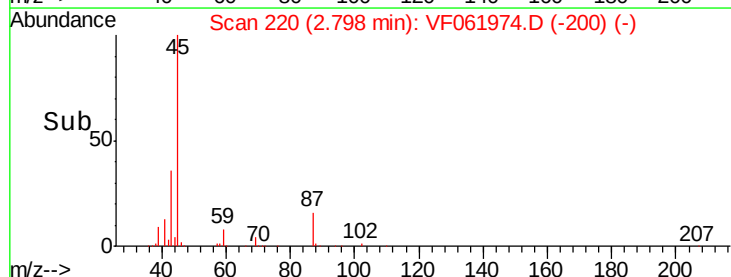
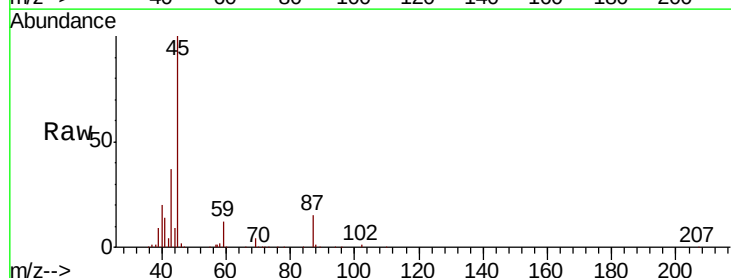
RT: 2.80 min Scan# 220

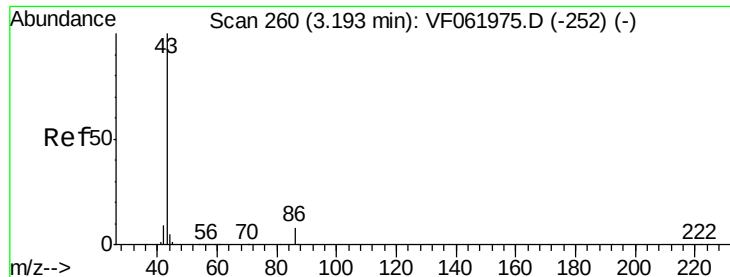
Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Tgt Ion:	45	Resp:	158245
Ion	Ratio	Lower	Upper
45	100		
43	37.1	33.7	50.5
87	15.5	17.1	25.7#
59	11.9	8.0	12.0





#23

Vinyl Acetate

Concen: 111.602 ug/l

RT: 3.19 min Scan# 260

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 310783

Ion Ratio Lower Upper

43 100

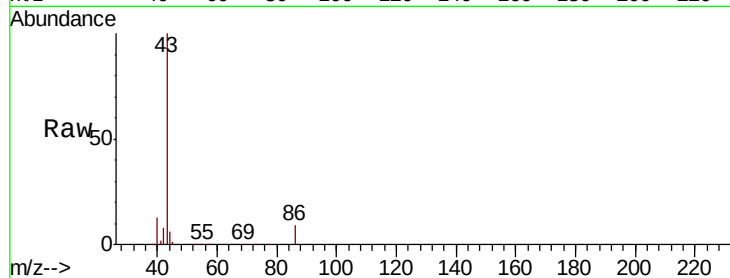
86 9.0 6.5 9.7

Manual Integrations

APPROVED

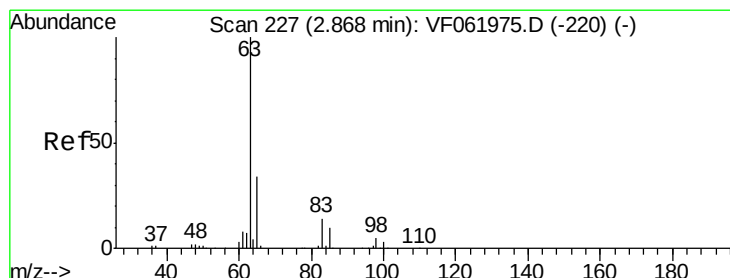
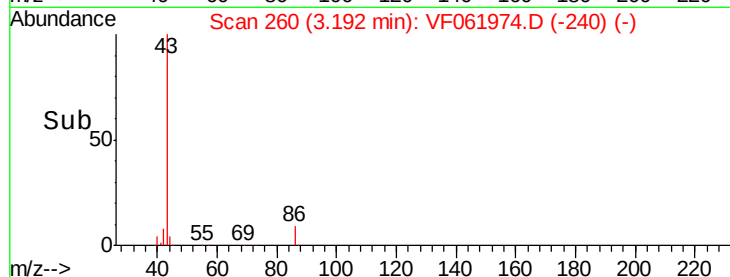
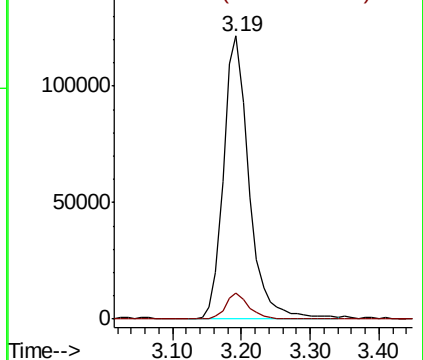
MMDadoda

3/22/2019 6:18:51 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 22.202 ug/l

RT: 2.88 min Scan# 228

Delta R.T. 0.01 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

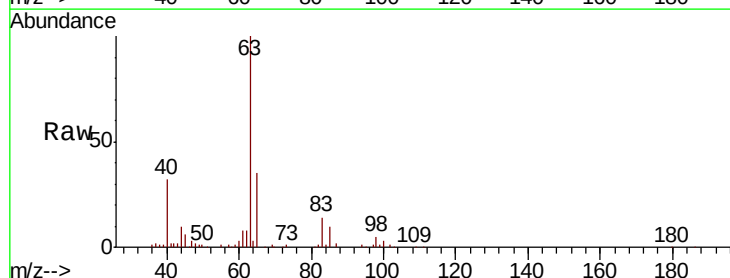
Tgt Ion: 63 Resp: 91196

Ion Ratio Lower Upper

63 100

98 5.2 2.7 8.1

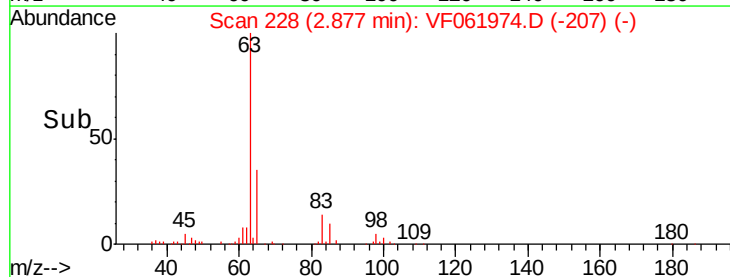
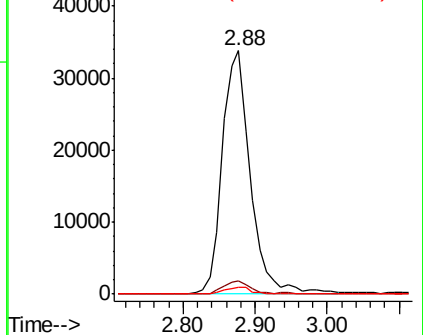
100 3.1 1.7 5.0

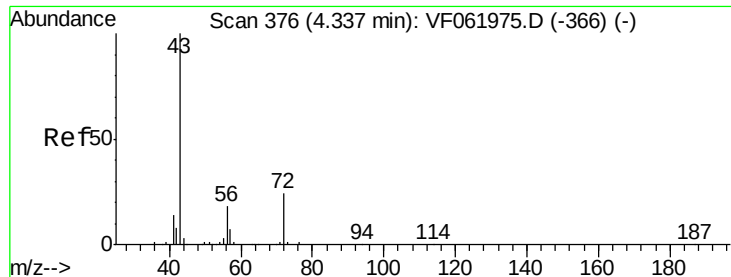


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 102.260 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 89238

Ion Ratio Lower Upper

43 100

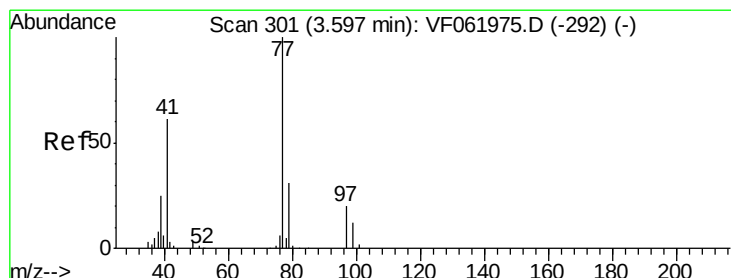
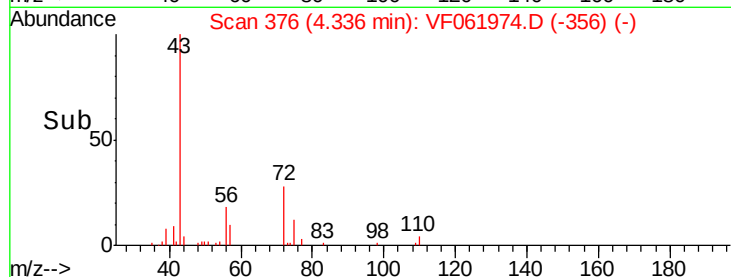
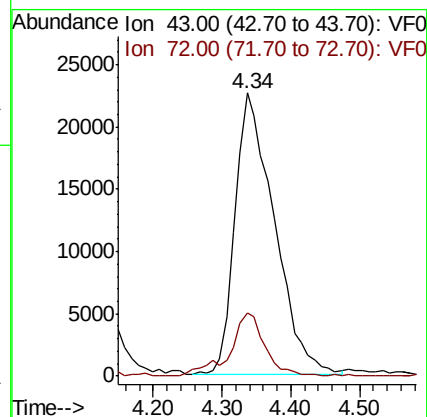
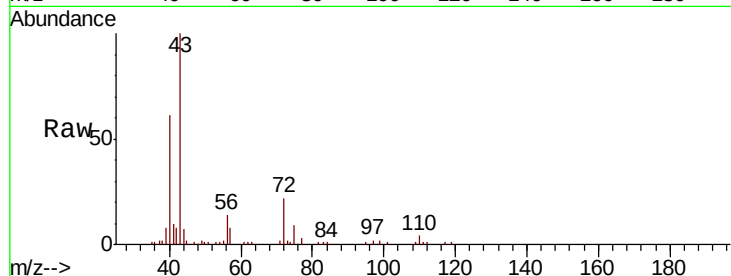
72 22.2 19.8 29.6

Manual Integrations

APPROVED

MMDadoda

3/22/2019 6:18:51 PM



#26

2,2-Dichloropropane

Concen: 22.118 ug/l

RT: 3.60 min Scan# 301

Delta R.T. -0.00 min

Lab File: VF061974.D

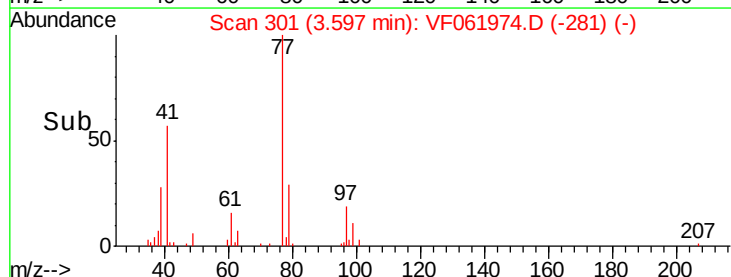
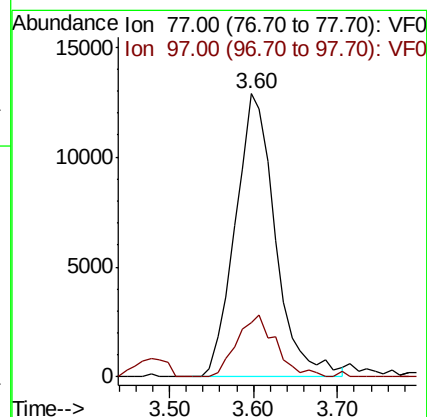
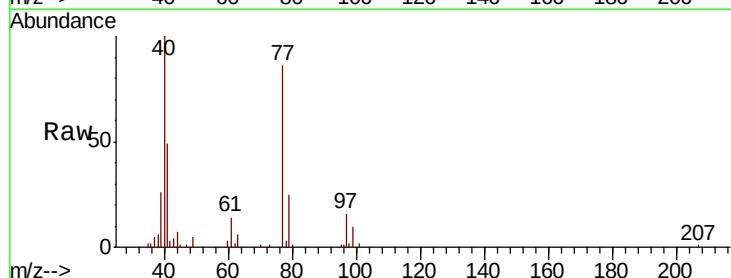
Acq: 16 Mar 2019 11:39

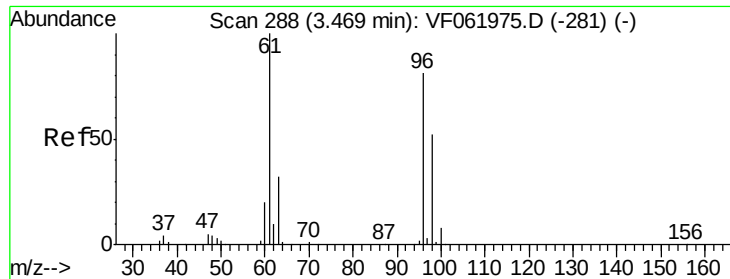
Tgt Ion: 77 Resp: 42852

Ion Ratio Lower Upper

77 100

97 19.0 10.8 32.4





#27

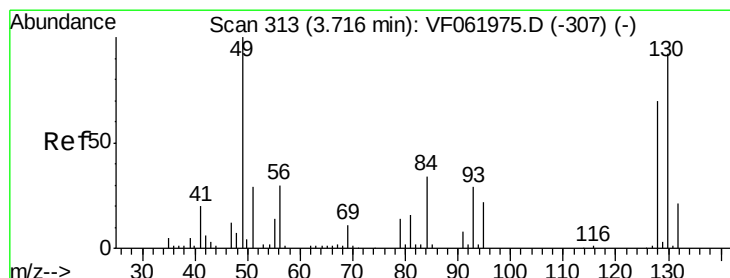
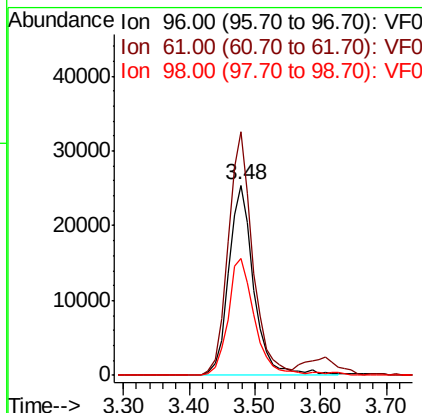
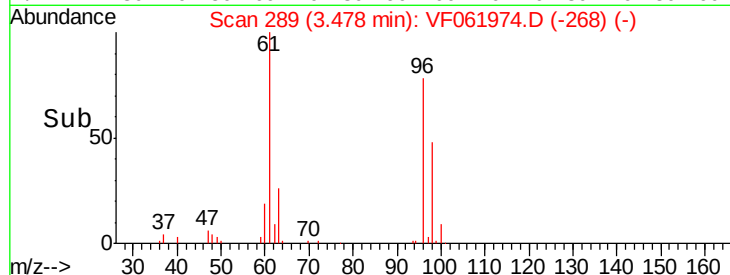
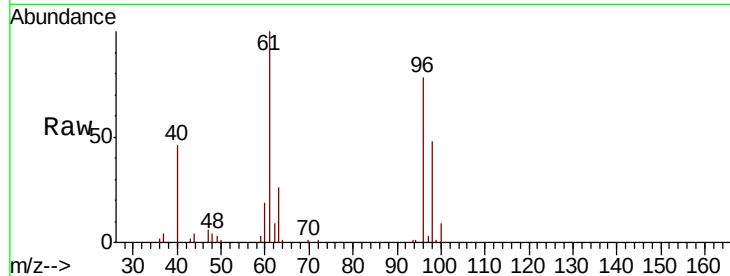
cis-1,2-Dichloroethene
 Concen: 22.478 ug/l
 RT: 3.48 min Scan# 289
 Delta R.T. 0.01 min
 Lab File: VF061974.D
 Acq: 16 Mar 2019 11:39

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
96	100		
61	128.1	0.0	246.6
98	61.5	0.0	129.2

Manual Integrations
 APPROVED

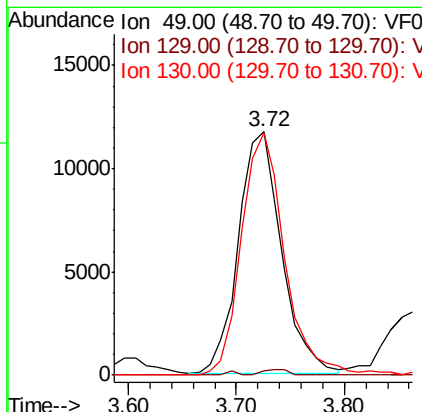
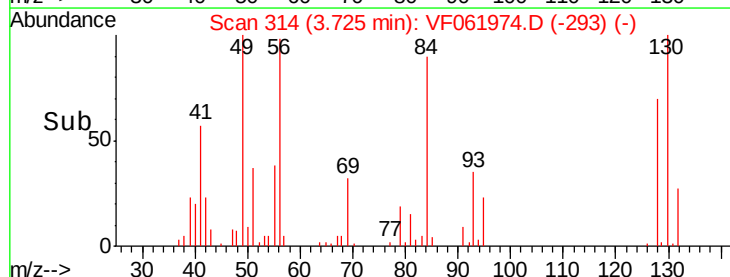
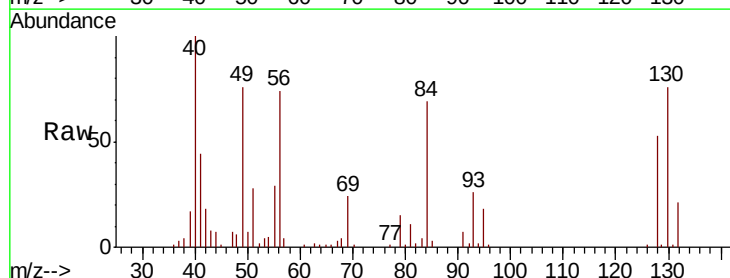
MMDadoda
 3/22/2019 6:18:51 PM

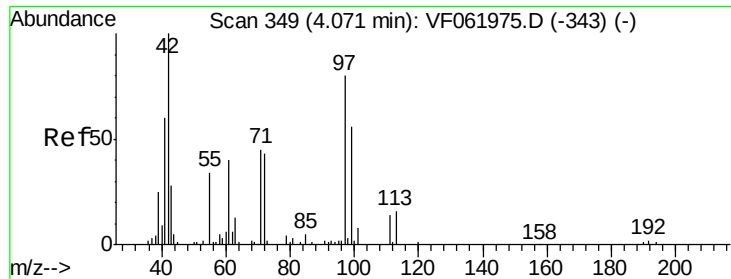


#28

Bromochloromethane
 Concen: 19.035 ug/l
 RT: 3.72 min Scan# 314
 Delta R.T. 0.01 min
 Lab File: VF061974.D
 Acq: 16 Mar 2019 11:39

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	5.8
130	99.7	73.1	109.7





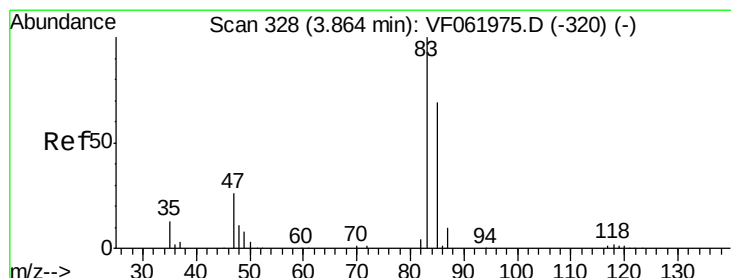
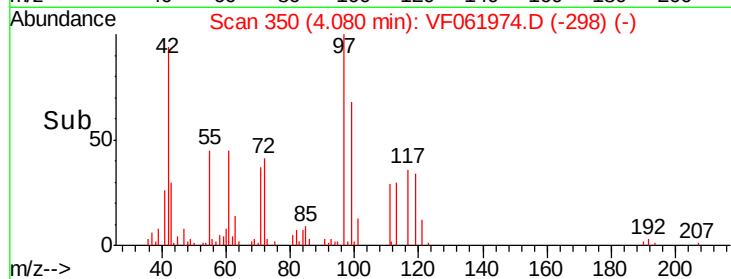
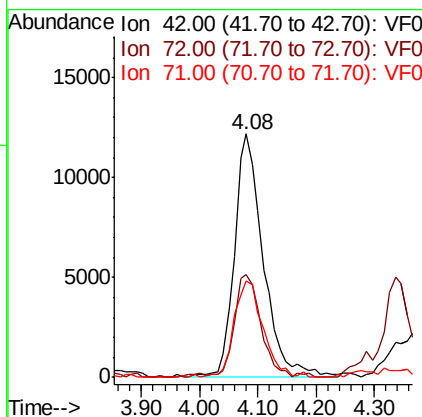
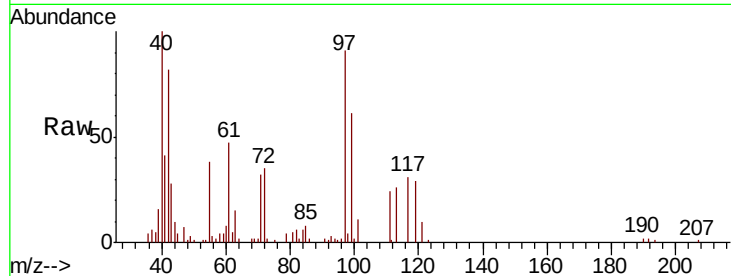
#29
Tetrahydrofuran
Concen: 110.623 ug/l
RT: 4.08 min Scan# 350
Delta R.T. 0.01 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.4	34.0	51.0
71	39.8	34.2	51.4

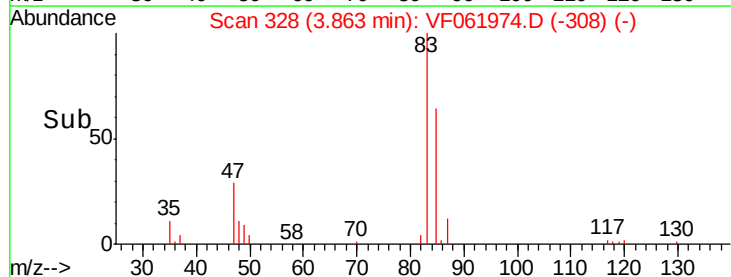
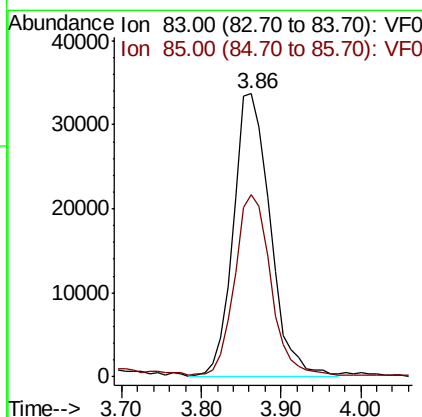
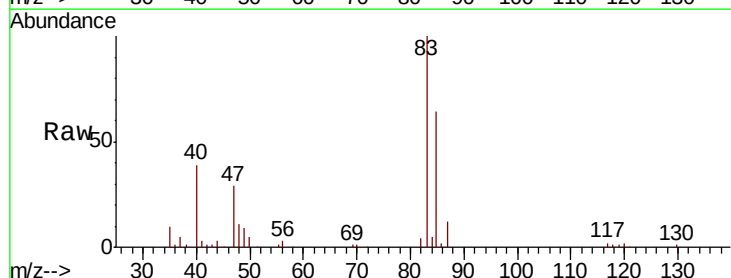
Manual Integrations
APPROVED

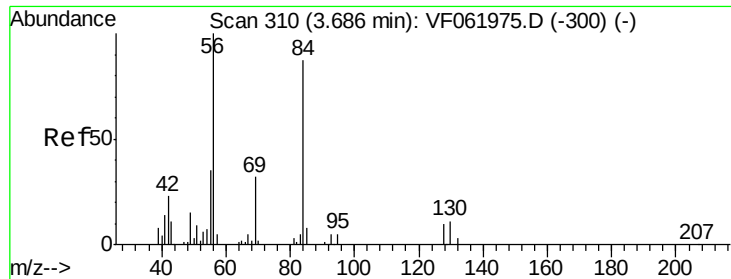
MMDadoda
3/22/2019 6:18:51 PM



#30
Chloroform
Concen: 23.343 ug/l
RT: 3.86 min Scan# 328
Delta R.T. -0.00 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.3	55.5	83.3





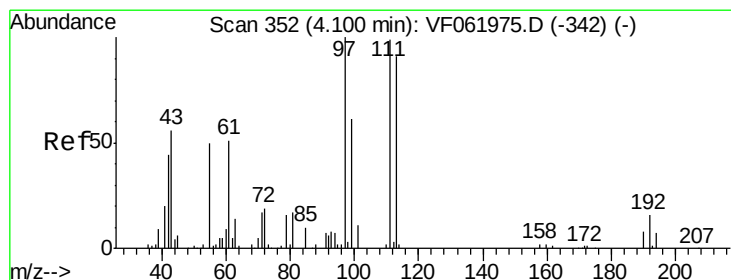
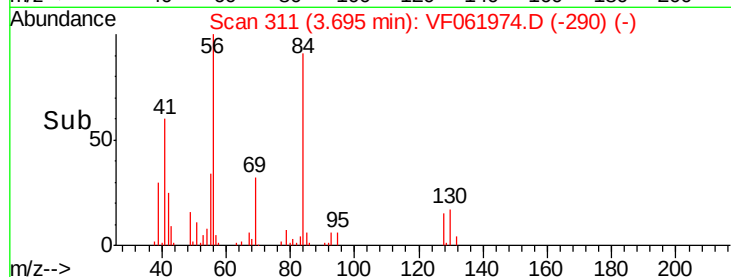
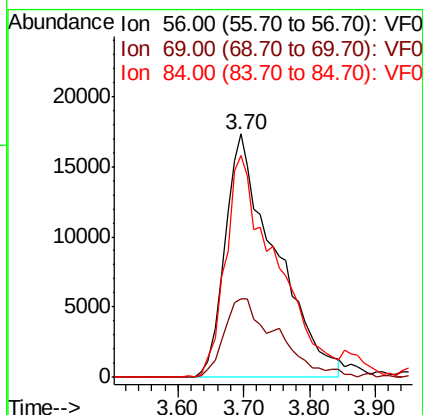
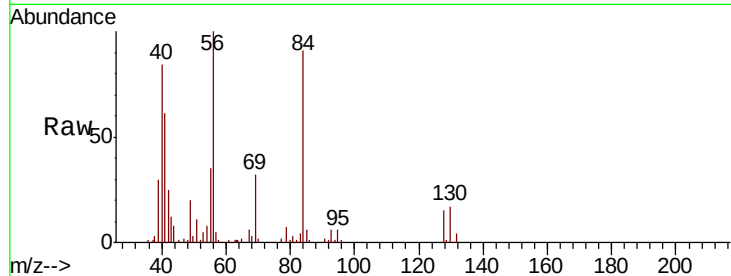
#31
Cyclohexane
Concen: 22.846 ug/l
RT: 3.70 min Scan# 311
Delta R.T. 0.01 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.4	25.8	38.8
84	90.9	69.5	104.3

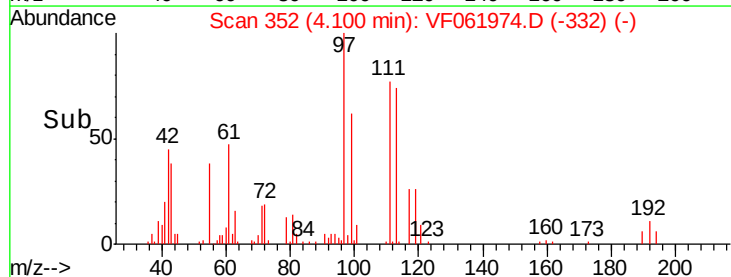
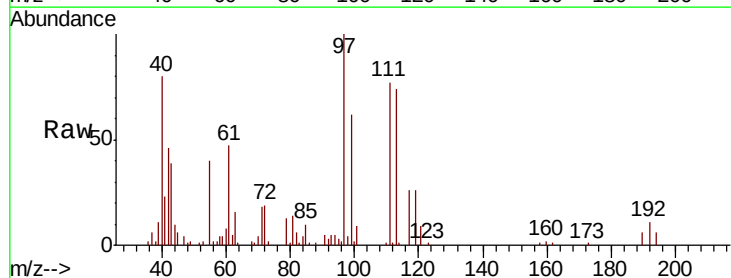
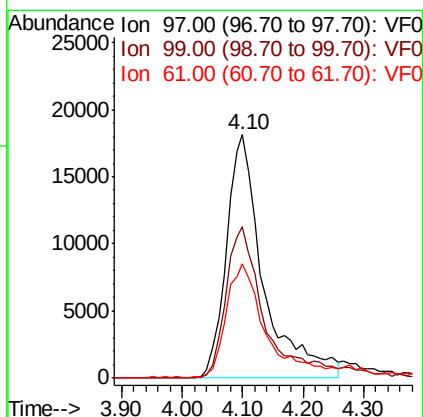
Manual Integrations
APPROVED

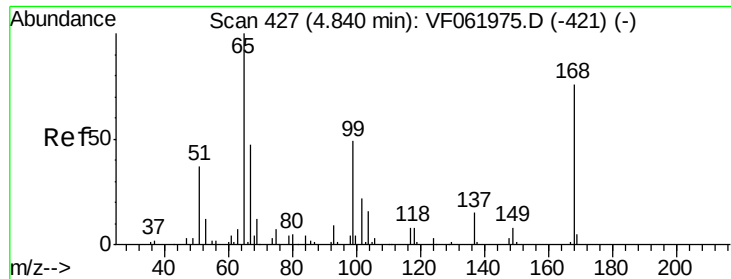
MMDadoda
3/22/2019 6:18:51 PM



#32
1,1,1-Trichloroethane
Concen: 25.042 ug/l
RT: 4.10 min Scan# 352
Delta R.T. -0.00 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.0	49.0	73.4
61	47.1	41.4	62.0





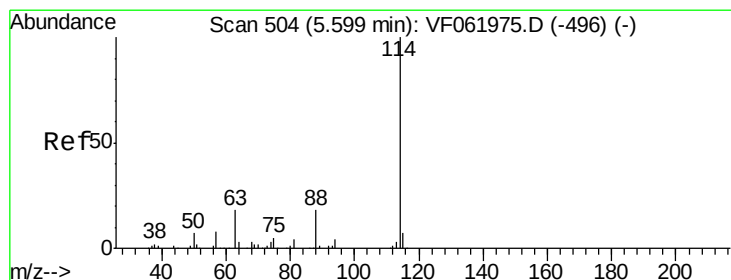
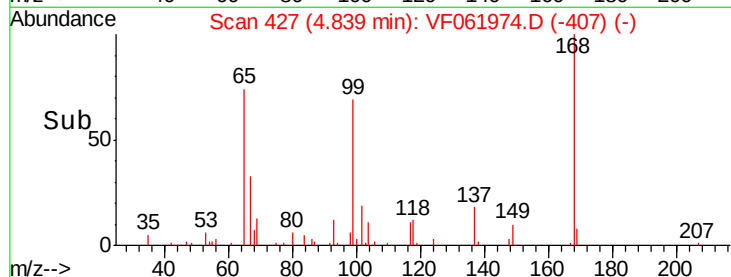
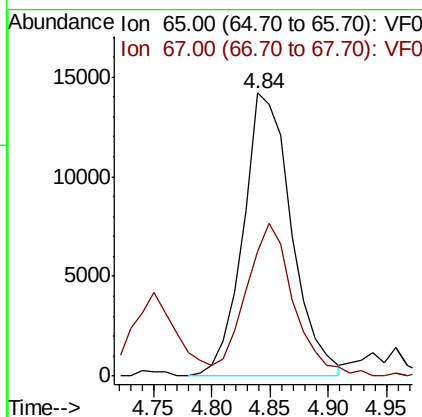
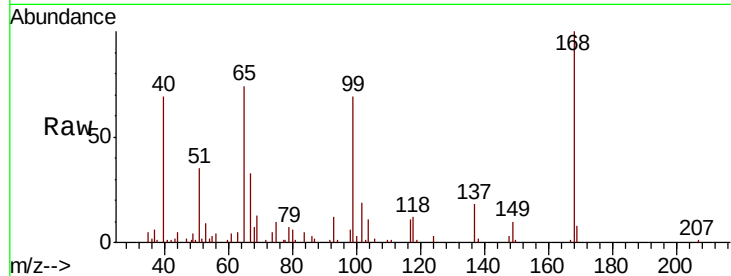
#33
 1,2-Dichloroethane-d4
 Concen: 20.864 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. -0.00 min
 Lab File: VF061974.D
 Acq: 16 Mar 2019 11:39

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
65	100		
67	44.2	0.0	109.4

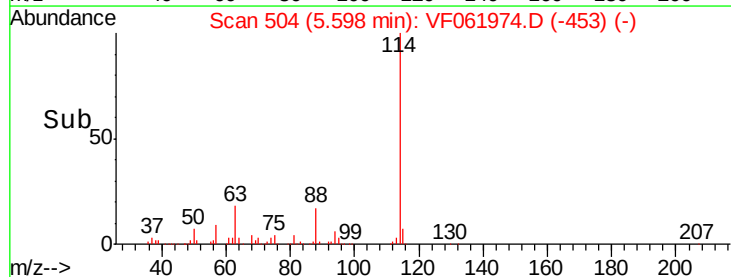
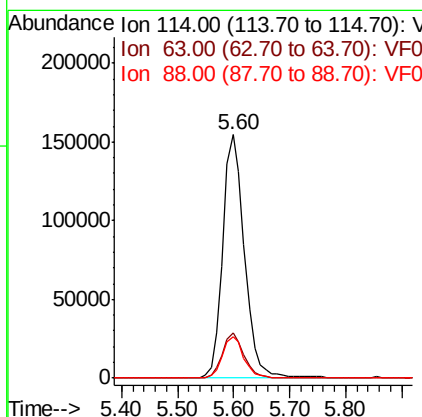
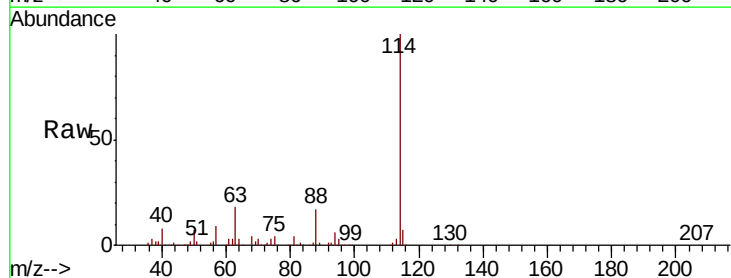
Manual Integrations
 APPROVED

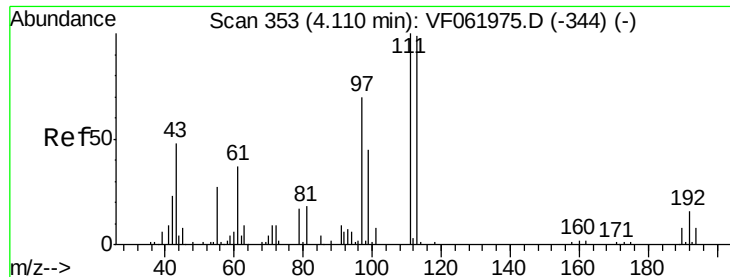
MMDadoda
 3/22/2019 6:18:51 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. -0.00 min
 Lab File: VF061974.D
 Acq: 16 Mar 2019 11:39

Tgt Ion	Ratio	Lower	Upper
114	100		
63	18.3	0.0	36.4
88	16.8	0.0	36.4





#35

Dibromofluoromethane

Concen: 20.979 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.01 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

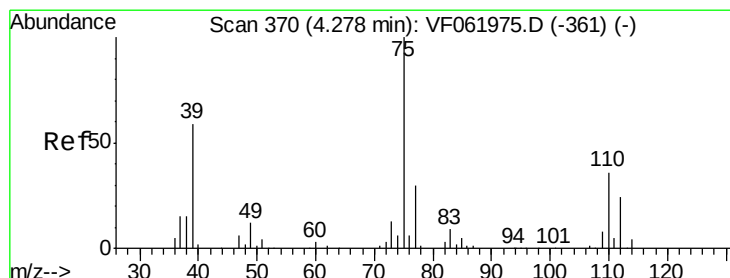
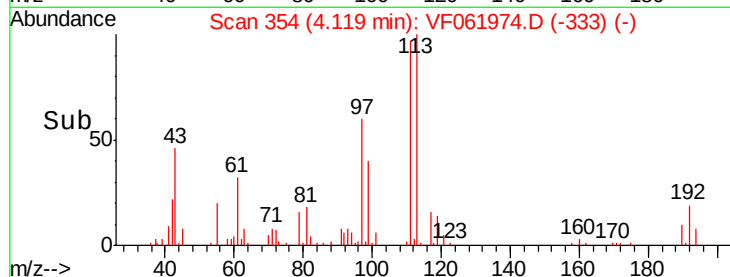
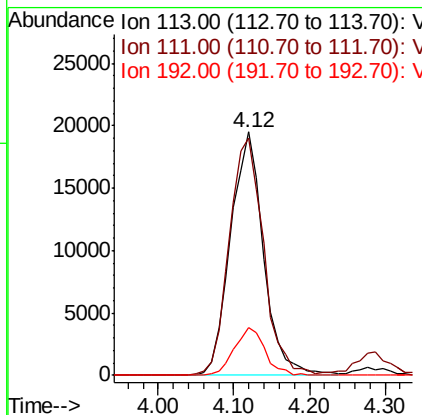
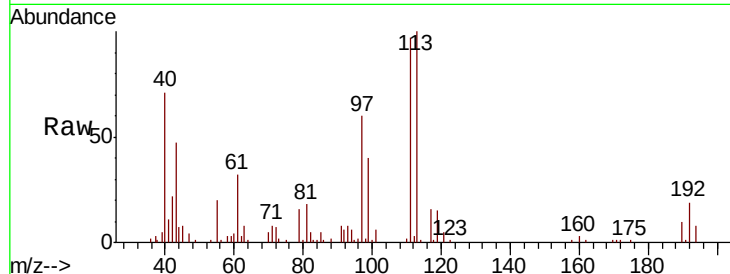
ClientSampleId :

VSTDIC020

Tot Ion:	113	Resp:	58814
Ion	Ratio	Lower	Upper
113	100		
111	97.3	80.8	121.2
192	19.5	13.0	19.6

Manual Integrations
APPROVED

MMDadoda
3/22/2019 6:18:51 PM



#36

1,1-Dichloropropene

Concen: 22.087 ug/l

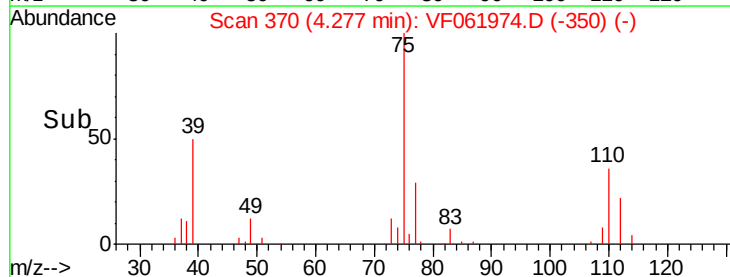
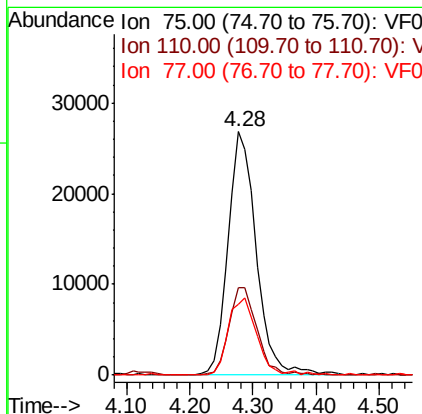
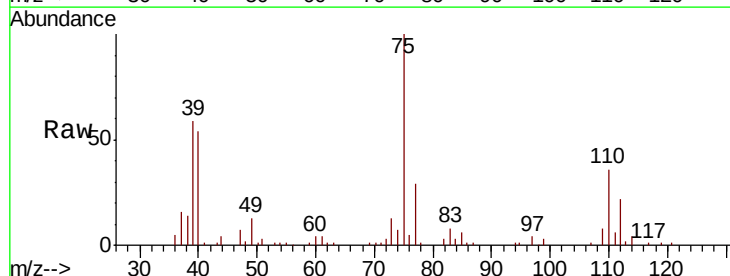
RT: 4.28 min Scan# 370

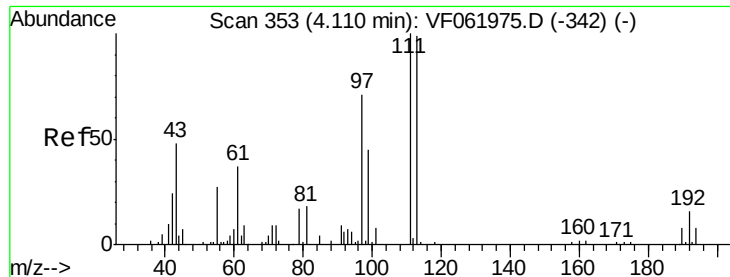
Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Tgt Ion:	75	Resp:	83269
Ion	Ratio	Lower	Upper
75	100		
110	35.7	17.8	53.3
77	29.1	24.2	36.2





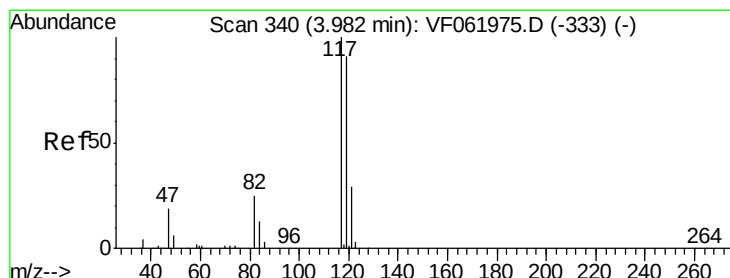
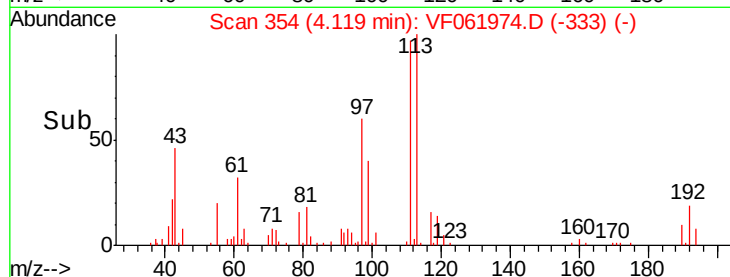
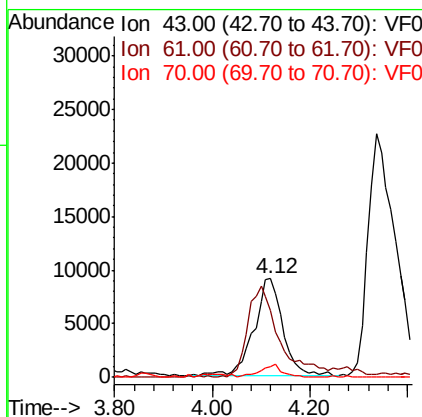
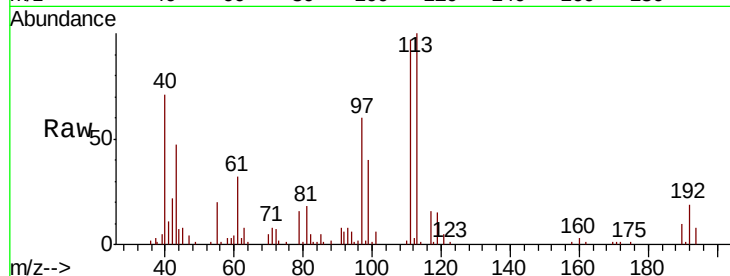
#37
Ethyl Acetate
Concen: 22.445 ug/l
RT: 4.12 min Scan# 354
Delta R.T. 0.01 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	67.6	59.8	89.6
70	11.4	7.8	11.8

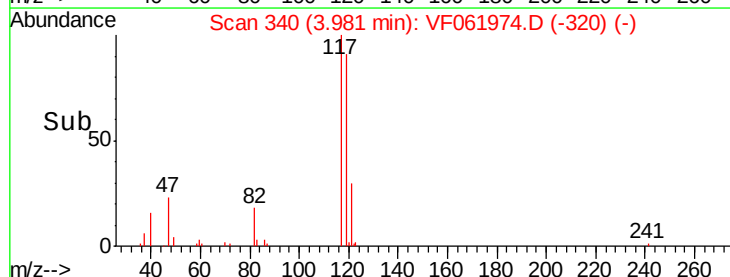
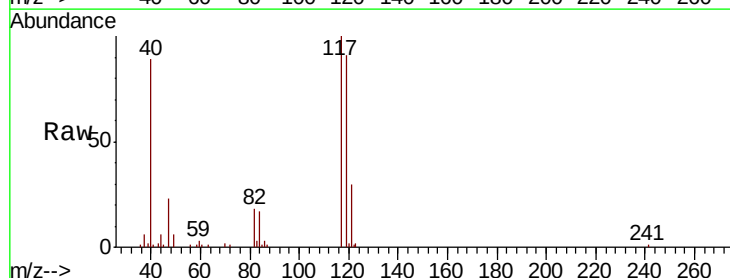
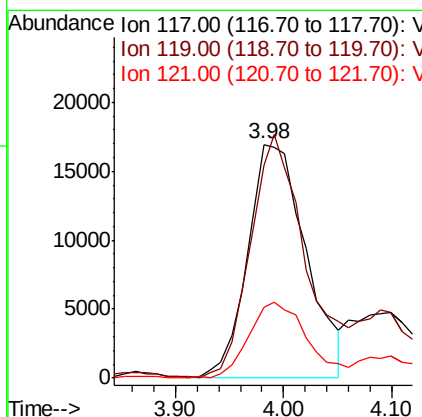
Manual Integrations
APPROVED

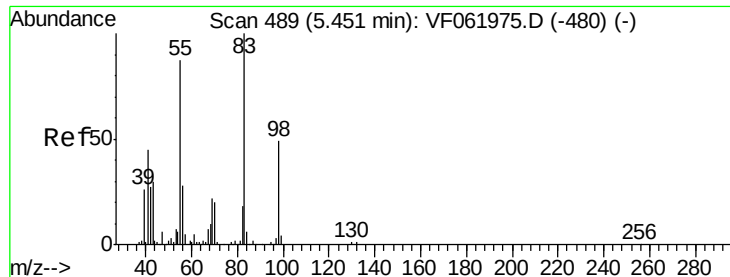
MMDadoda
3/22/2019 6:18:51 PM



#38
Carbon Tetrachloride
Concen: 23.111 ug/l
RT: 3.98 min Scan# 340
Delta R.T. -0.00 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Tgt Ion	Ratio	Lower	Upper
117	100		
119	91.0	73.0	109.4
121	30.0	23.0	34.6





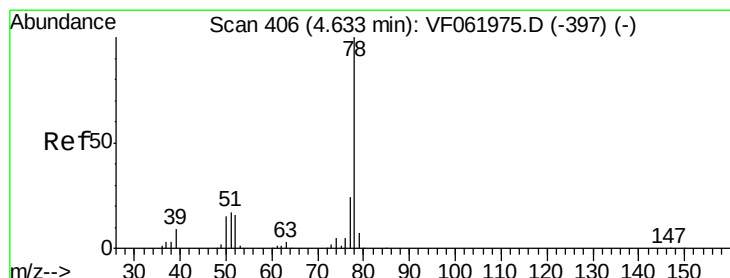
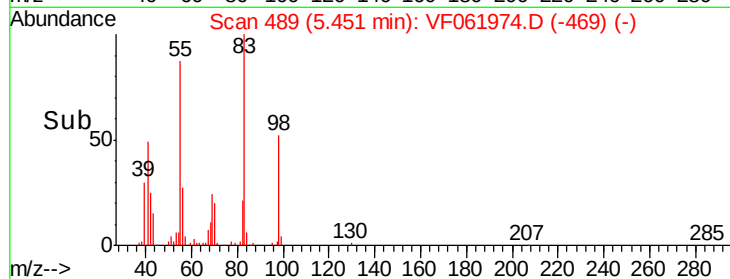
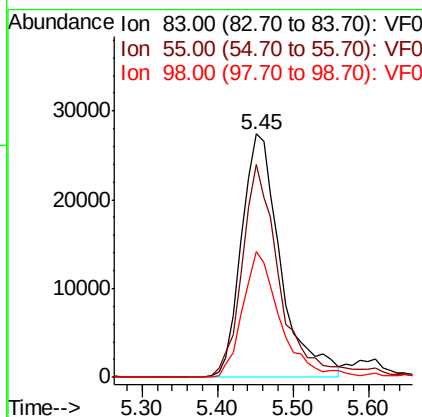
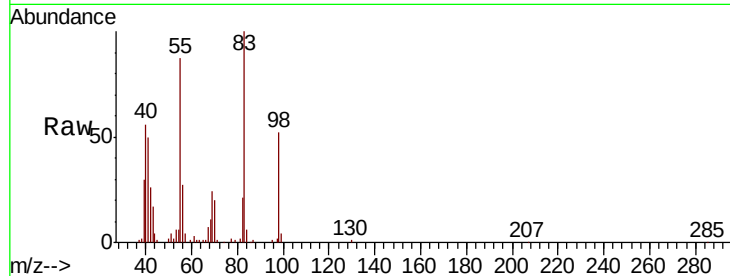
#39
Methylvlcyclohexane
Concen: 22.195 ug/l
RT: 5.45 min Scan# 489
Delta R.T. -0.00 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
83	100		
55	87.4	69.7	104.5
98	51.6	39.4	59.0

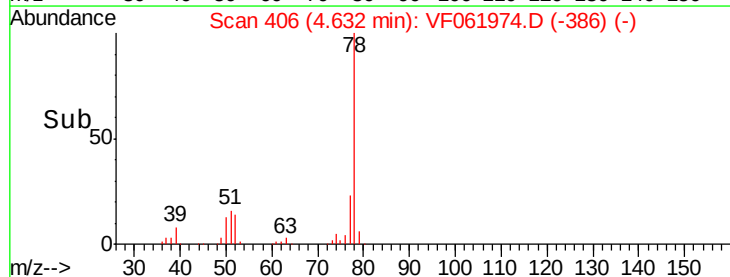
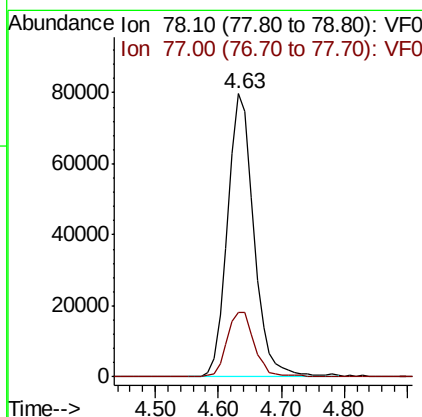
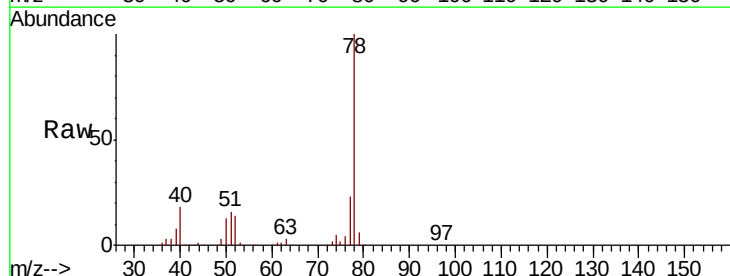
Manual Integrations
APPROVED

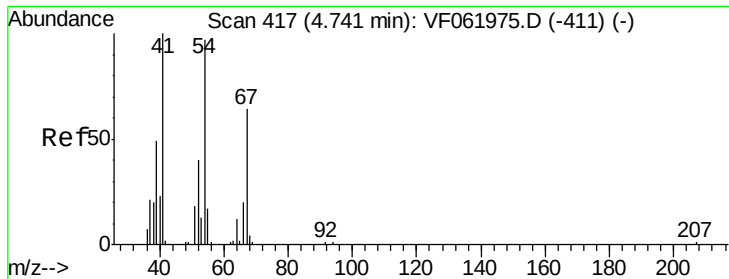
MMDadoda
3/22/2019 6:18:51 PM



#40
Benzene
Concen: 23.135 ug/l
RT: 4.63 min Scan# 406
Delta R.T. -0.00 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.8	19.0	28.4





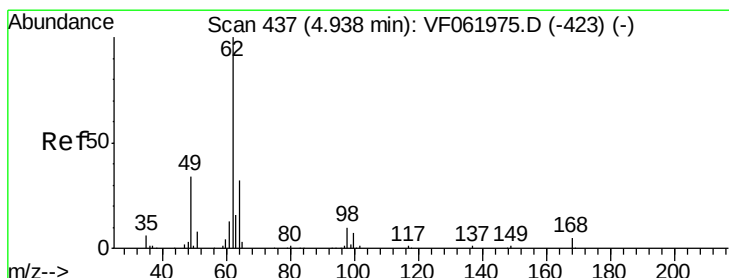
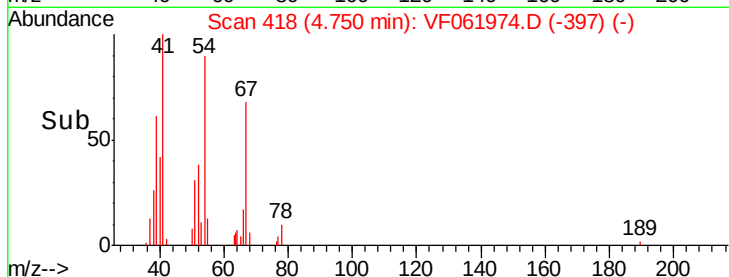
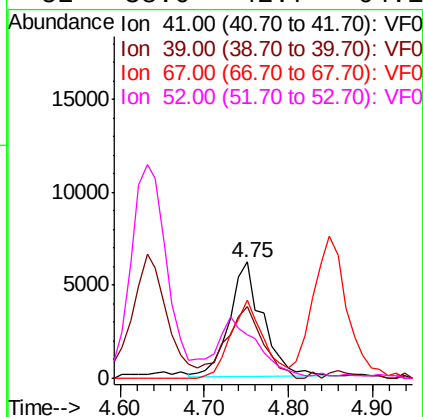
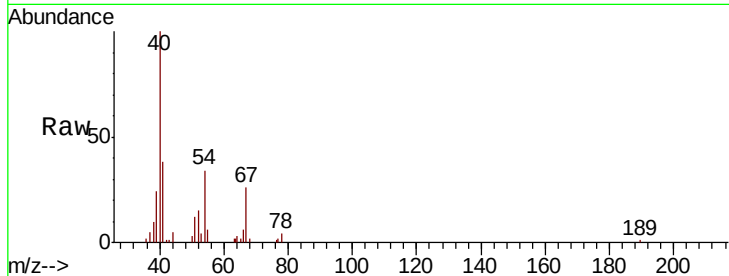
#41
Methacrylonitrile
Concen: 18.937 ug/l
RT: 4.75 min Scan# 418
Delta R.T. 0.01 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
41	100		
39	61.5	46.2	69.4
67	67.5	49.8	74.8
52	38.0	42.7	64.1#

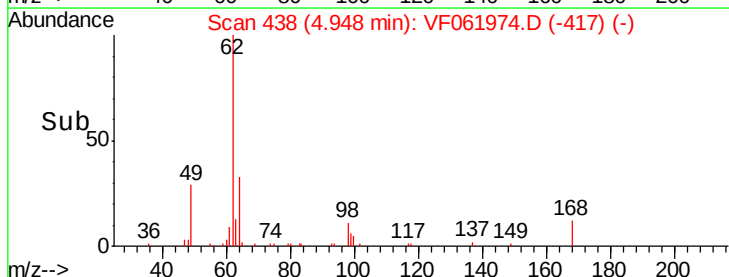
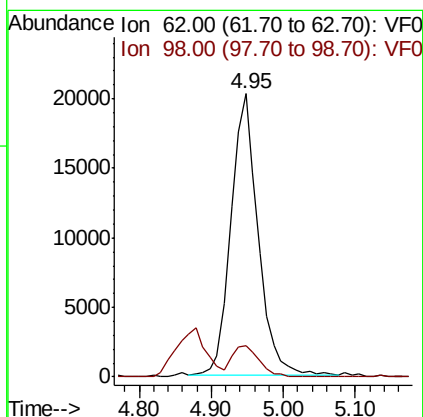
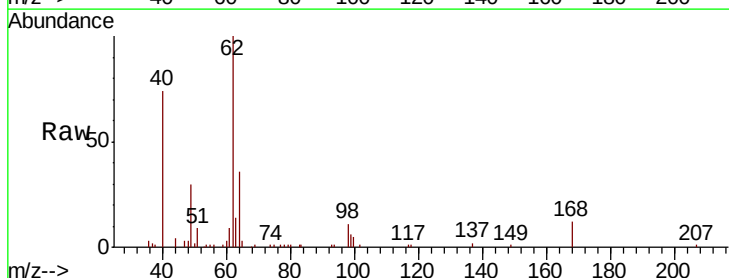
Manual Integrations
APPROVED

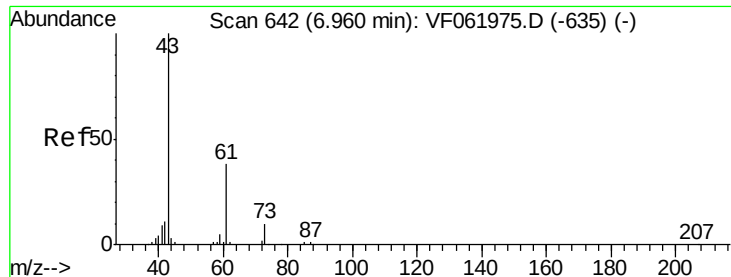
MMDadoda
3/22/2019 6:18:51 PM



#42
1,2-Dichloroethane
Concen: 21.458 ug/l
RT: 4.95 min Scan# 438
Delta R.T. 0.01 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Tgt Ion	Ratio	Lower	Upper
62	100		
98	11.2	0.0	19.8





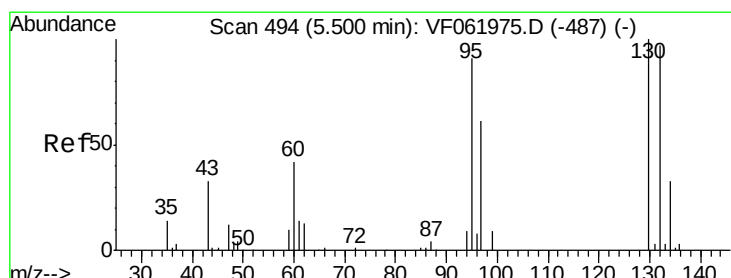
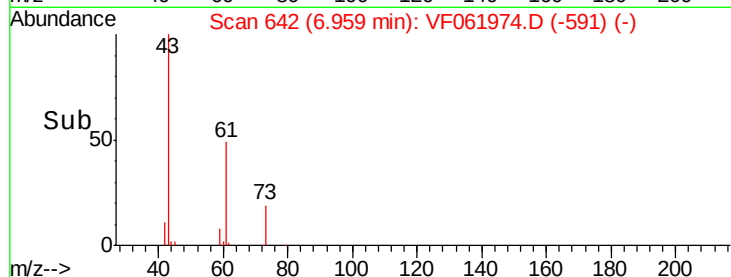
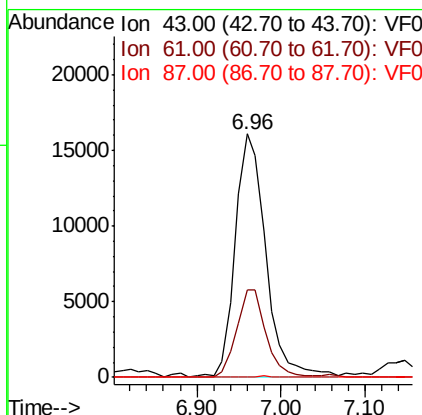
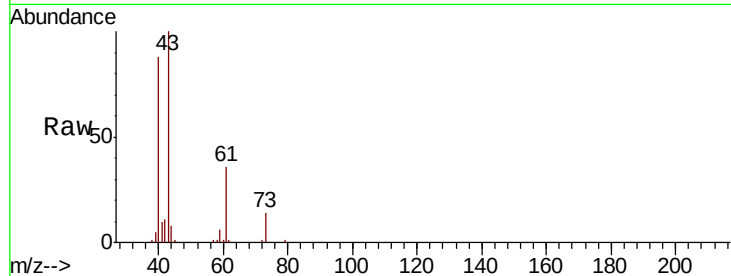
#43
Isopropyl Acetate
Concen: 20.436 ug/l
RT: 6.96 min Scan# 642
Delta R.T. -0.00 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	35.9	30.1	45.1
87	0.0	0.4	0.6

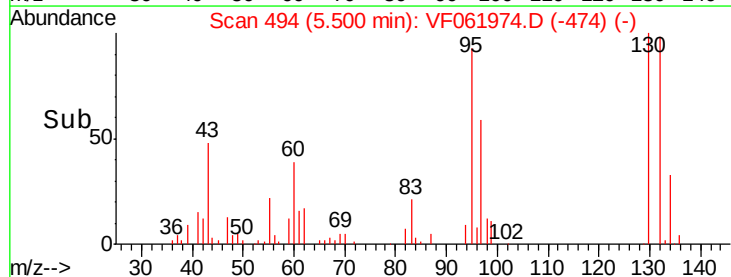
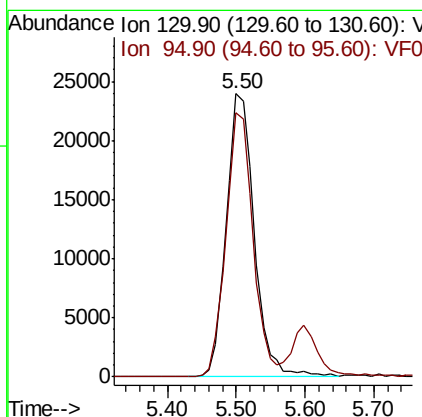
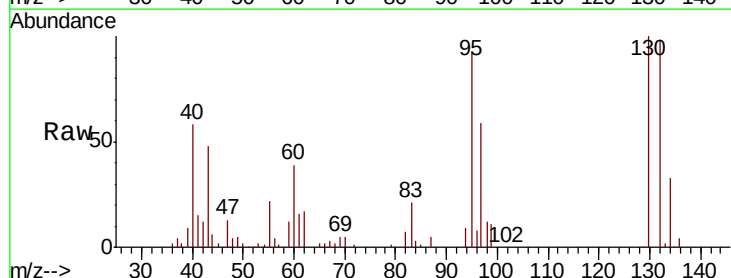
Manual Integrations
APPROVED

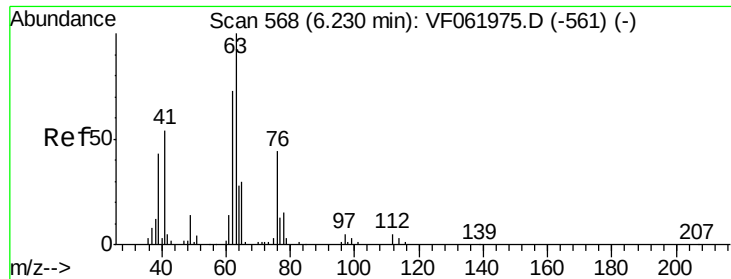
MMDadoda
3/22/2019 6:18:51 PM



#44
Trichloroethene
Concen: 22.077 ug/l
RT: 5.50 min Scan# 494
Delta R.T. -0.00 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Tgt Ion	Ratio	Lower	Upper
130	100		
95	93.4	0.0	181.4





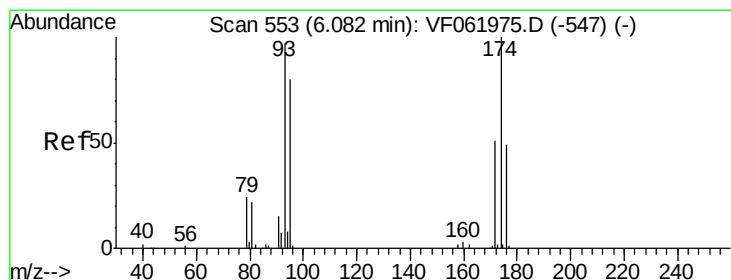
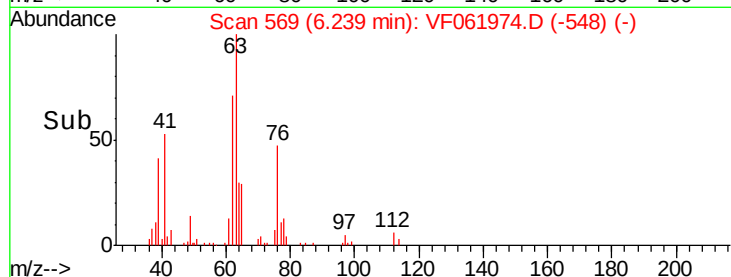
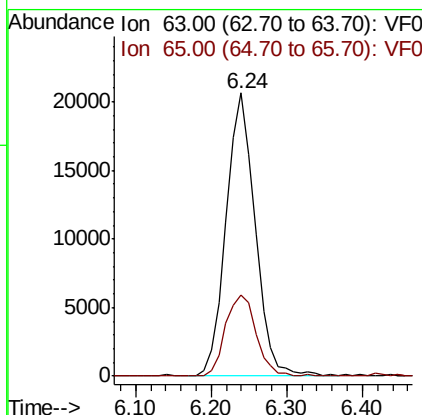
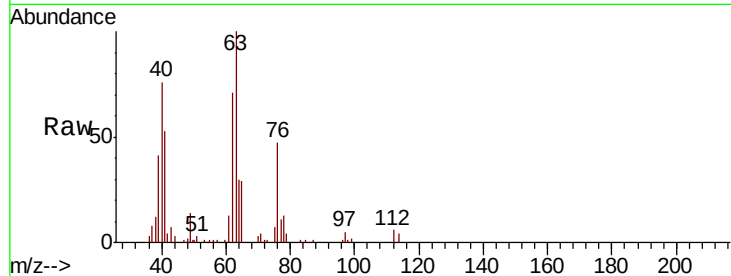
#45
 1,2-Dichloropropane
 Concen: 23.189 ug/l
 RT: 6.24 min Scan# 569
 Delta R.T. 0.01 min
 Lab File: VF061974.D
 Acq: 16 Mar 2019 11:39

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
63	100		
65	28.7	23.7	35.5

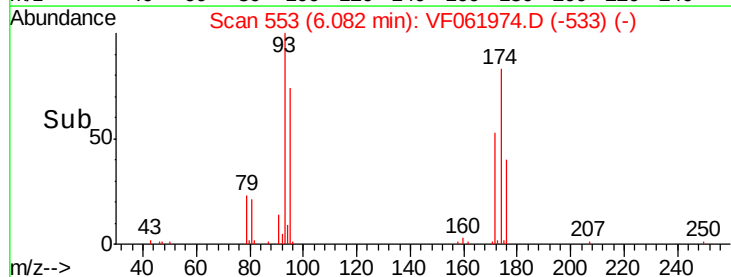
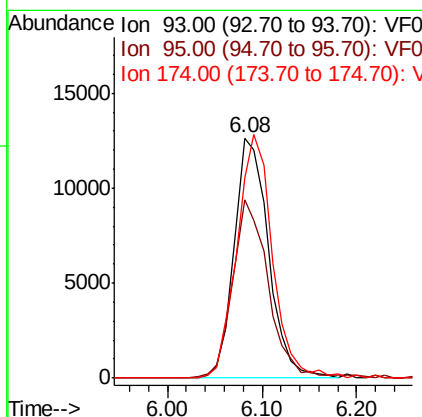
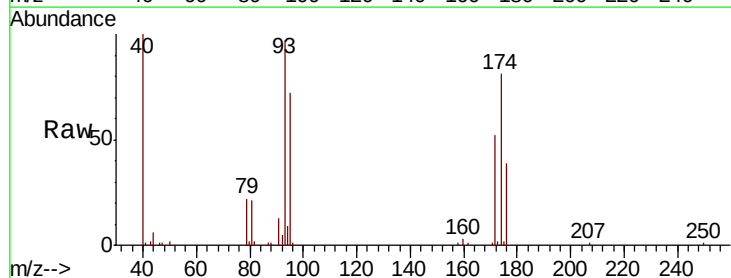
Manual Integrations
 APPROVED

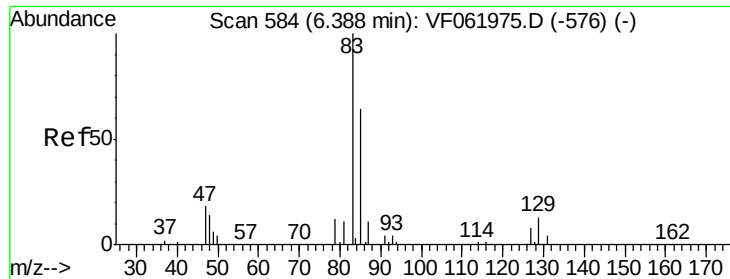
MMDadoda
 3/22/2019 6:18:51 PM



#46
 Dibromomethane
 Concen: 22.691 ug/l
 RT: 6.08 min Scan# 553
 Delta R.T. -0.00 min
 Lab File: VF061974.D
 Acq: 16 Mar 2019 11:39

Tgt Ion	Ratio	Lower	Upper
93	100		
95	74.4	65.7	98.5
174	83.2	82.2	123.4





#47

Bromodichloromethane

Concen: 21.027 ug/l

RT: 6.39 min Scan# 584

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

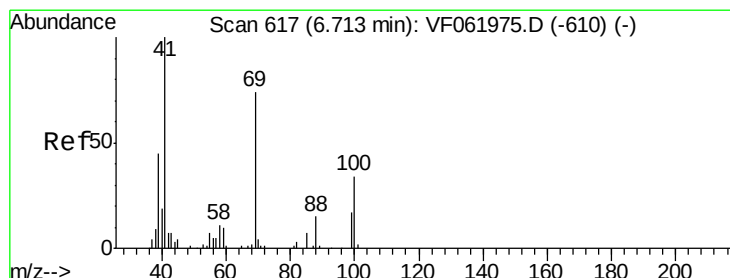
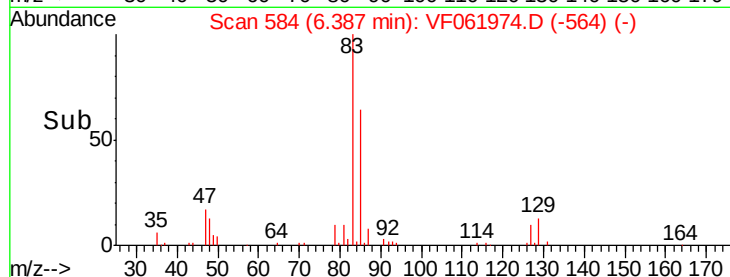
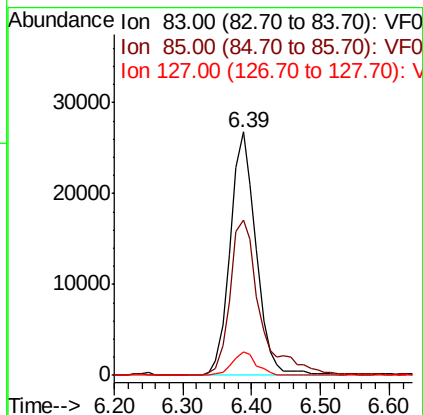
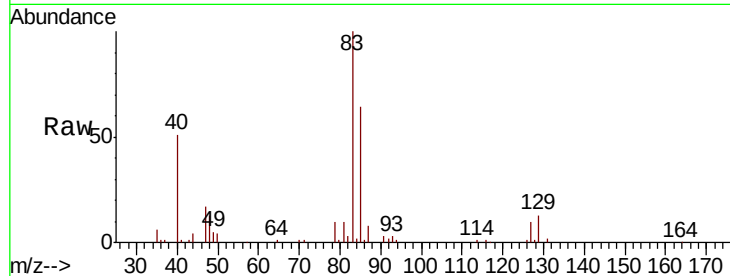
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	69718
Ion Ratio	Lower	Upper	
83	100		
85	64.0	51.4	77.2
127	9.5	6.5	9.7

Manual Integrations
APPROVED

MMDadoda
3/22/2019 6:18:51 PM



#48

Methyl methacrylate

Concen: 19.802 ug/l

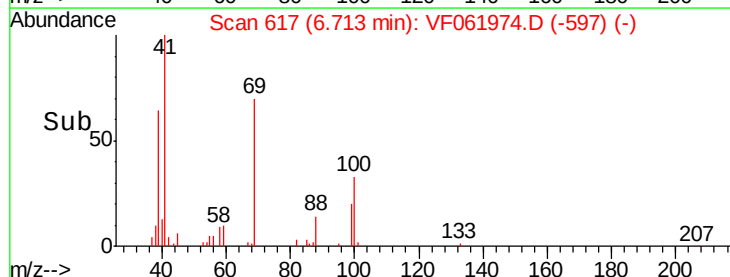
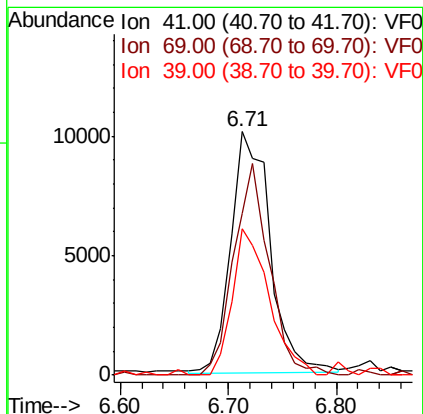
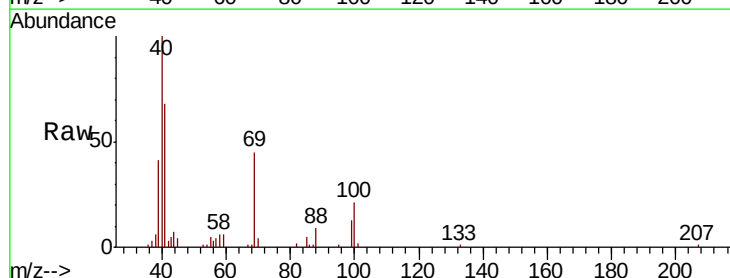
RT: 6.71 min Scan# 617

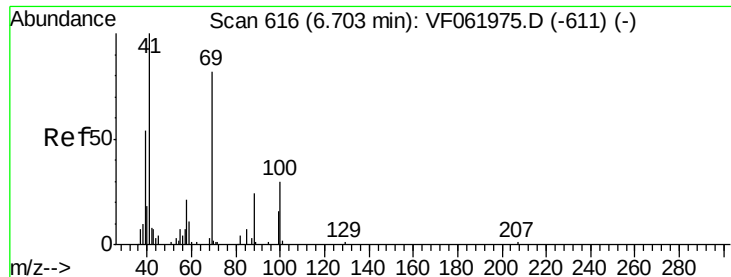
Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Tgt Ion:	41	Resp:	25632
Ion Ratio	Lower	Upper	
41	100		
69	66.4	59.0	88.6
39	60.4	35.6	53.4#





#49

1,4-Dioxane

Concen: 413.330 ug/l

RT: 6.72 min Scan# 618

Delta R.T. 0.02 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 88 Resp: 4759

Ion Ratio Lower Upper

88 100

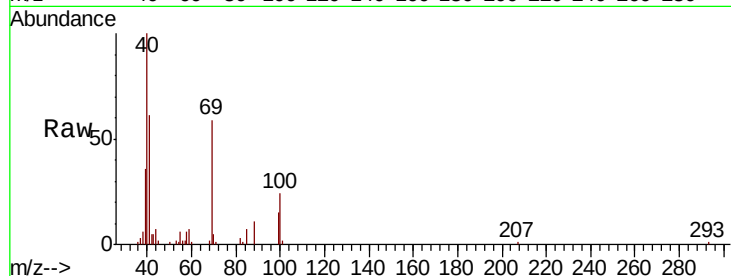
43 42.4 31.2 46.8

58 55.0 69.9 104.9#

Manual Integrations
APPROVED

MMDadoda

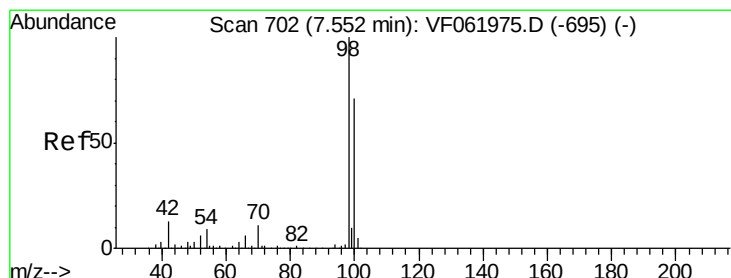
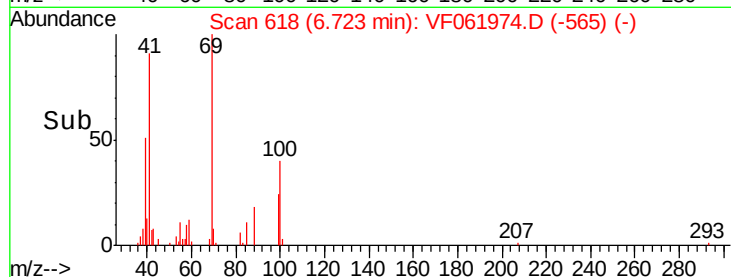
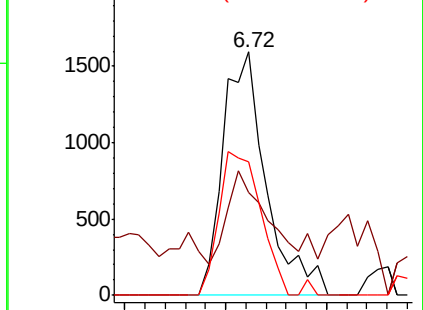
3/22/2019 6:18:51 PM



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 21.204 ug/l

RT: 7.55 min Scan# 702

Delta R.T. -0.00 min

Lab File: VF061974.D

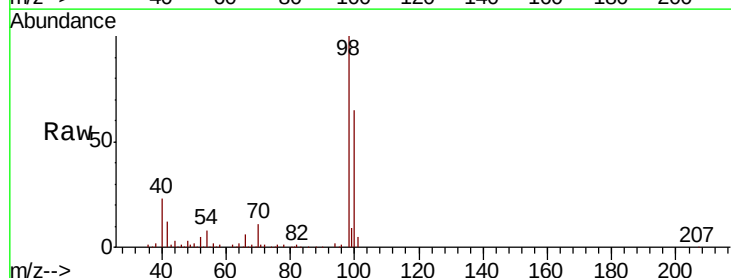
Acq: 16 Mar 2019 11:39

Tgt Ion: 98 Resp: 173773

Ion Ratio Lower Upper

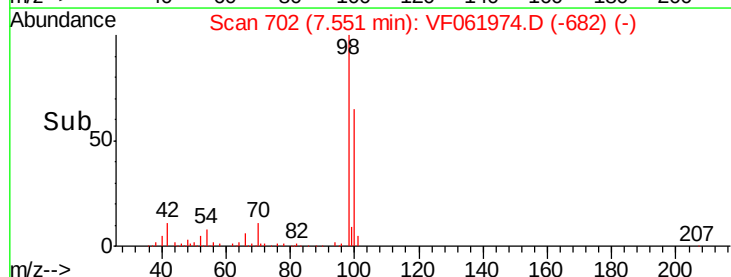
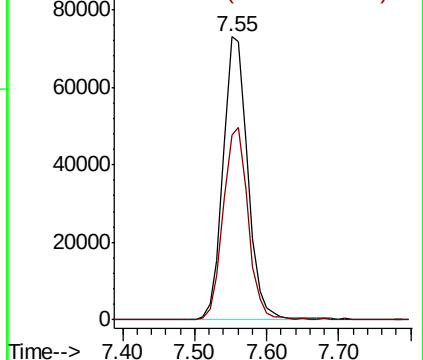
98 100

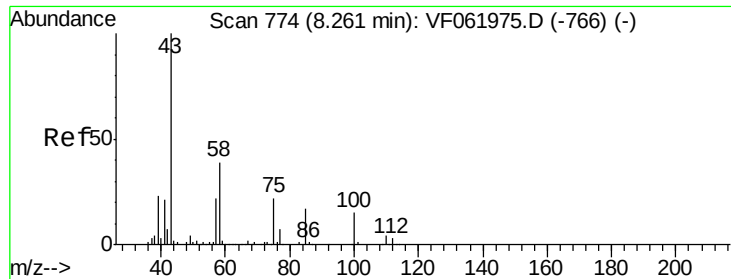
100 65.1 56.8 85.2



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 108.454 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 154246

Ion Ratio Lower Upper

43 100

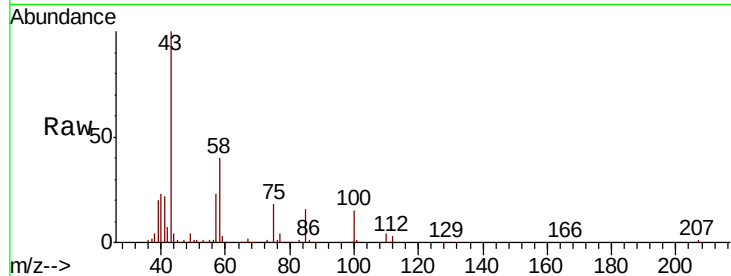
58 40.1 31.1 46.7

Manual Integrations

APPROVED

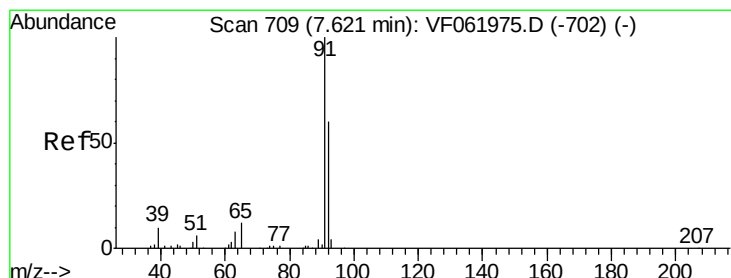
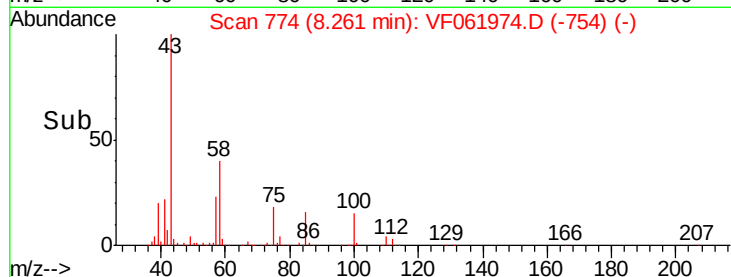
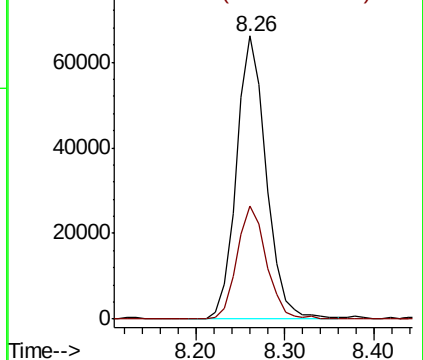
MMDadoda

3/22/2019 6:18:51 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 22.594 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.01 min

Lab File: VF061974.D

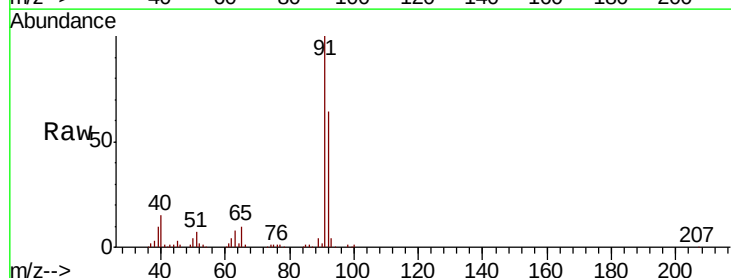
Acq: 16 Mar 2019 11:39

Tgt Ion: 92 Resp: 137907

Ion Ratio Lower Upper

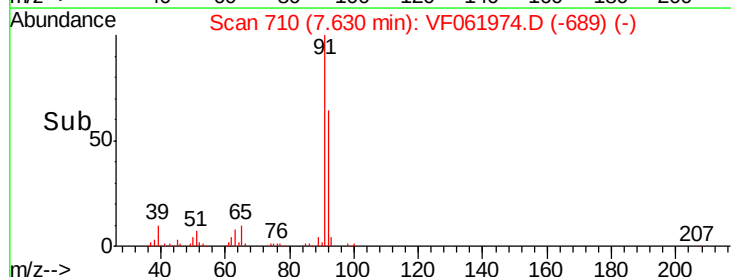
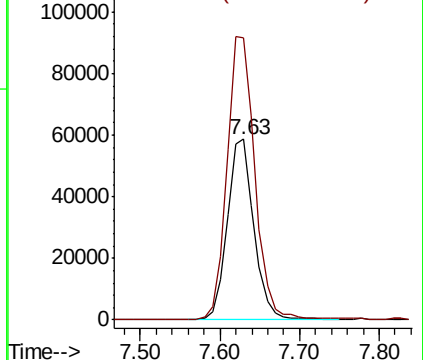
92 100

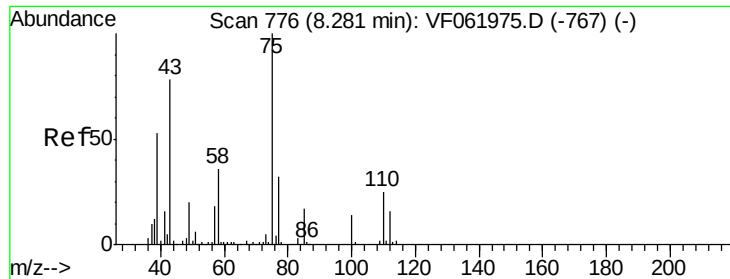
91 156.4 134.0 201.0



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





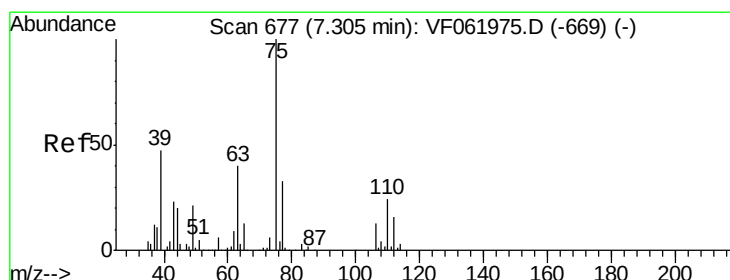
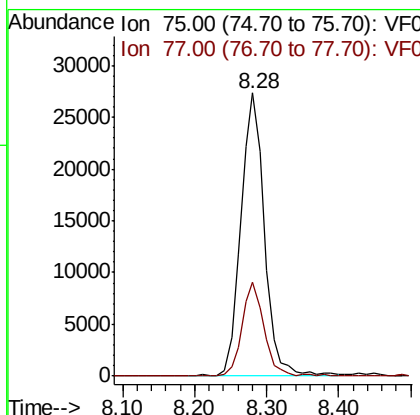
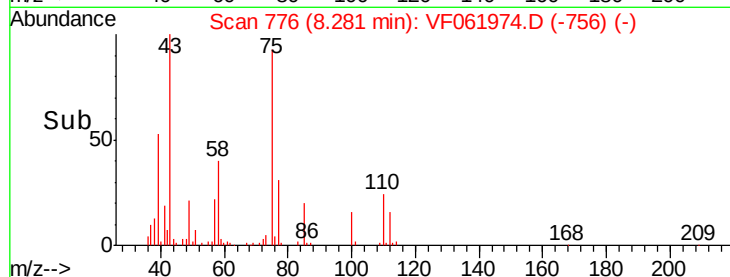
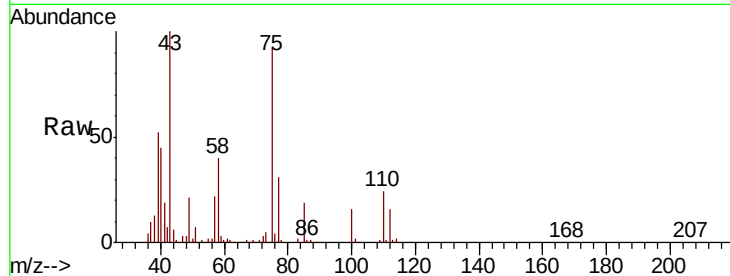
#53
 t-1,3-Dichloropropene
 Concen: 22.284 ug/l
 RT: 8.28 min Scan# 776
 Delta R.T. -0.00 min
 Lab File: VF061974.D
 Acq: 16 Mar 2019 11:39

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
75	100		
77	33.2	25.5	38.3

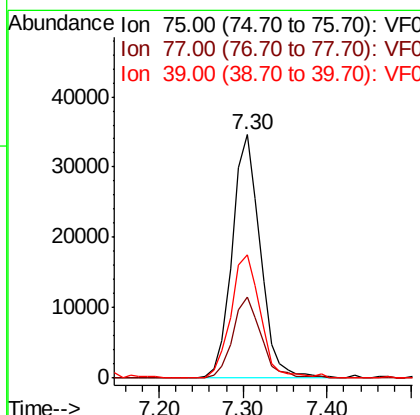
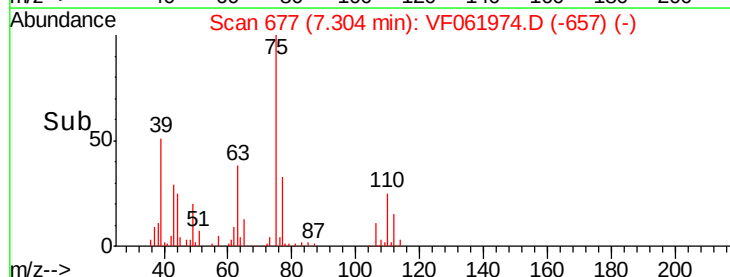
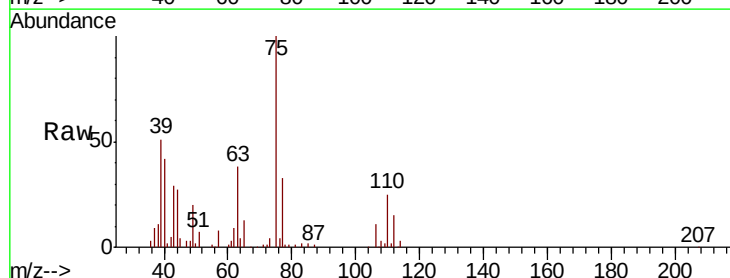
Manual Integrations
 APPROVED

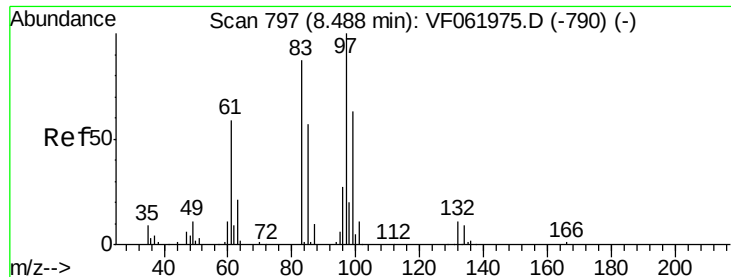
MMDadoda
 3/22/2019 6:18:51 PM



#54
 cis-1,3-Dichloropropene
 Concen: 22.051 ug/l
 RT: 7.30 min Scan# 677
 Delta R.T. -0.00 min
 Lab File: VF061974.D
 Acq: 16 Mar 2019 11:39

Tgt Ion	Ratio	Lower	Upper
75	100		
77	33.3	26.4	39.6
39	50.9	38.0	57.0





#55

1,1,2-Trichloroethane

Concen: 21.563 ug/l

RT: 8.49 min Scan# 797

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 97 Resp: 36733

Ion Ratio Lower Upper

97 100

83 86.9 69.7 104.5

85 54.7 45.8 68.6

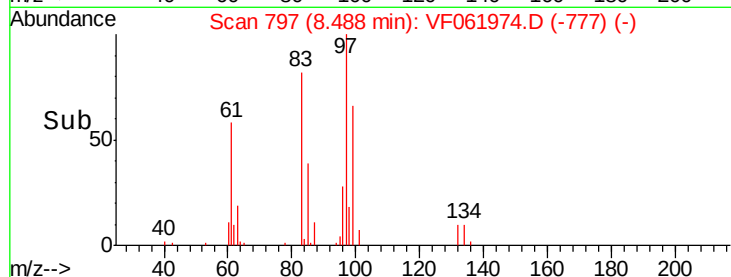
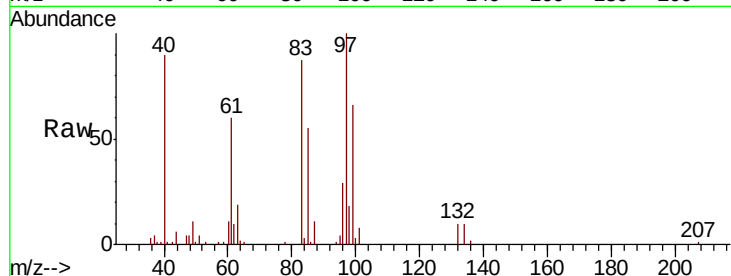
99 66.2 50.3 75.5

Manual Integrations

APPROVED

MMDadoda

3/22/2019 6:18:51 PM

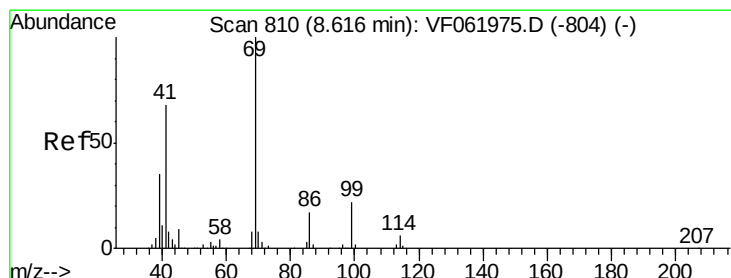
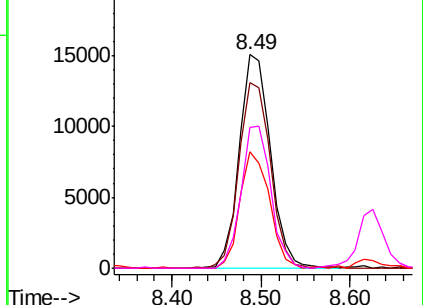


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 22.144 ug/l

RT: 8.63 min Scan# 811

Delta R.T. 0.01 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

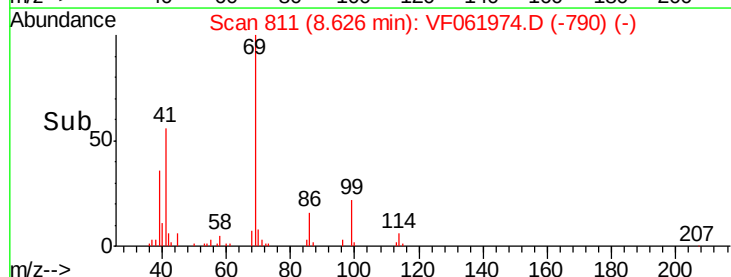
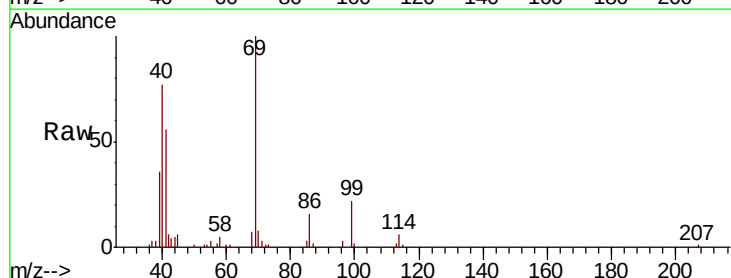
Tgt Ion: 69 Resp: 42883

Ion Ratio Lower Upper

69 100

41 56.2 54.7 82.1

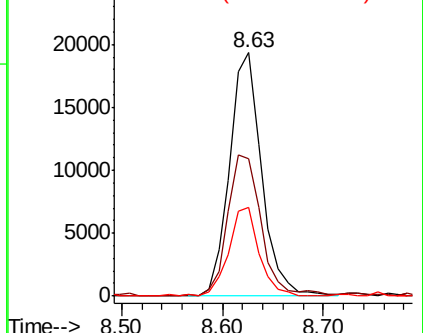
39 36.4 27.9 41.9

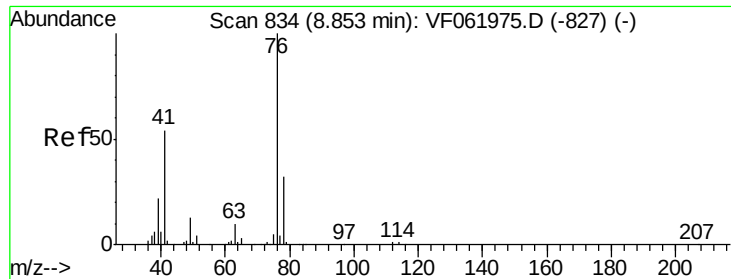


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 22.171 ug/l

RT: 8.85 min Scan# 834

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 63002

Ion Ratio Lower Upper

76 100

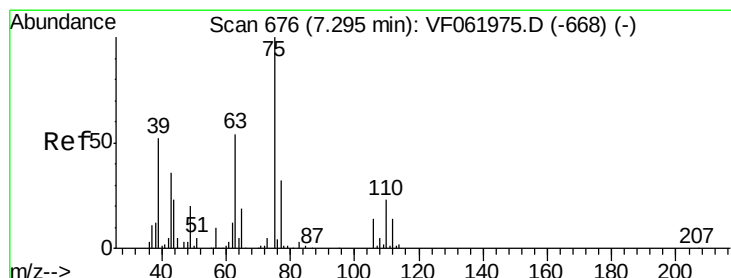
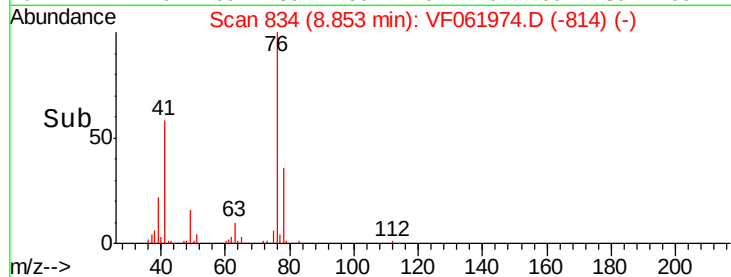
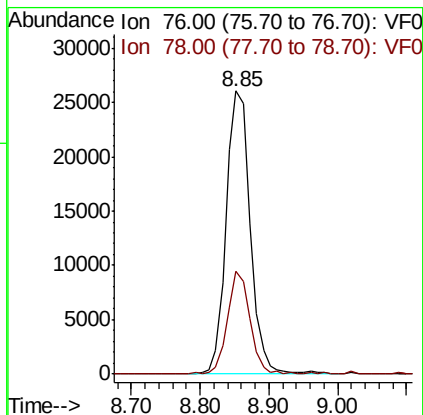
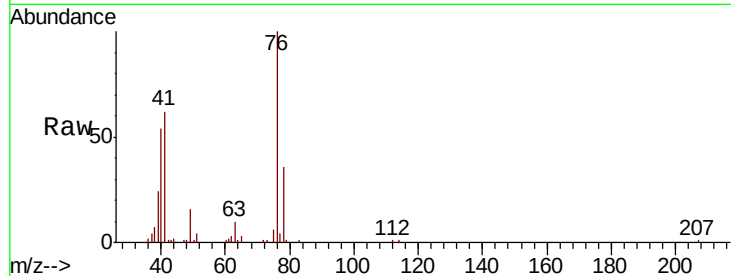
78 36.3 25.4 38.2

Manual Integrations

APPROVED

MMDadoda

3/22/2019 6:18:51 PM



#58

2-Chloroethyl Vinyl ether

Concen: 98.225 ug/l

RT: 7.29 min Scan# 676

Delta R.T. -0.00 min

Lab File: VF061974.D

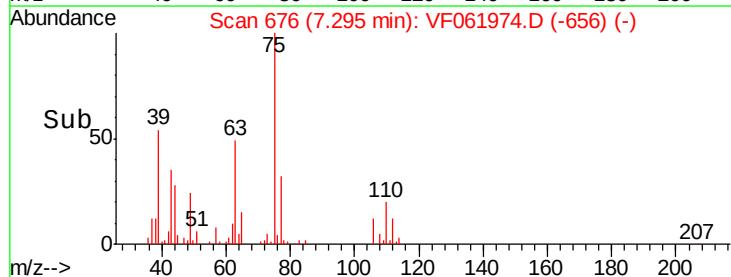
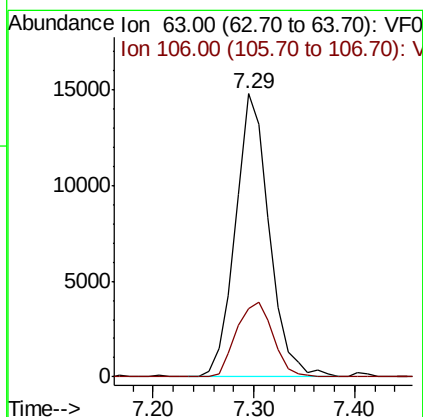
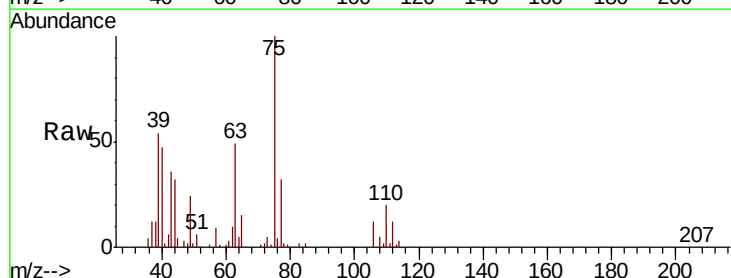
Acq: 16 Mar 2019 11:39

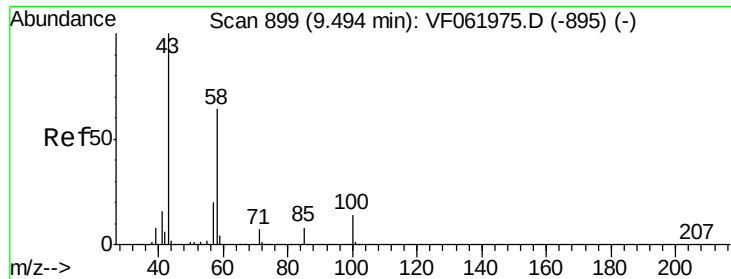
Tgt Ion: 63 Resp: 34453

Ion Ratio Lower Upper

63 100

106 24.0 20.9 31.3





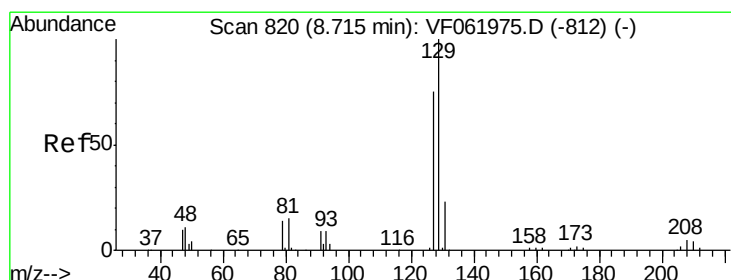
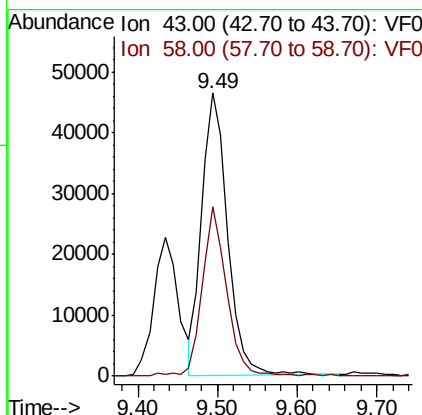
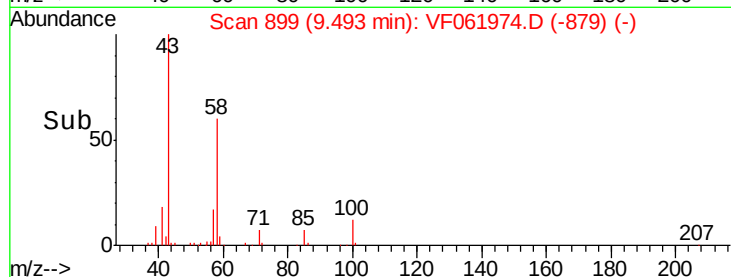
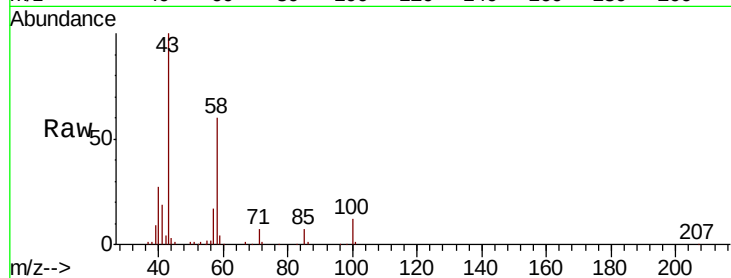
#59
2-Hexanone
Concen: 101.500 ug/l
RT: 9.49 min Scan# 899
Delta R.T. -0.00 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Instrument :
MSVOA_F
ClientSampled :
VSTDIC020

Tot Ion: 43 Resp: 104472
Ion Ratio Lower Upper
43 100
58 59.8 28.4 85.2

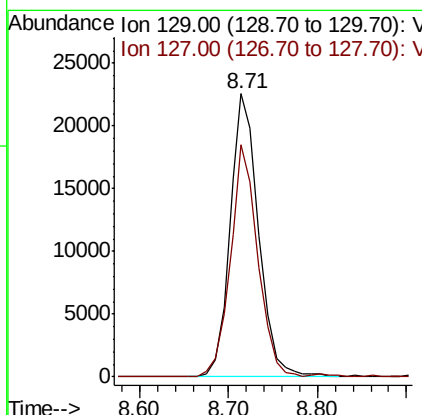
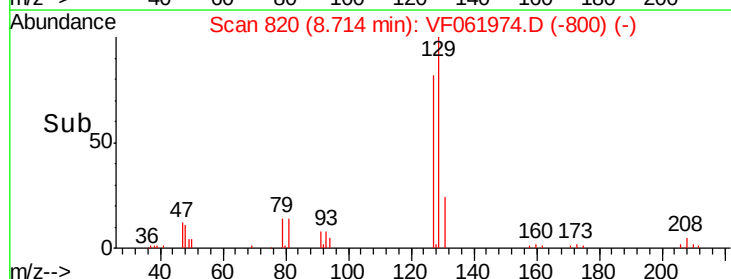
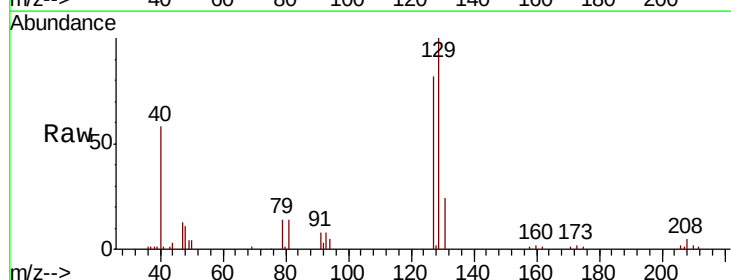
Manual Integrations
APPROVED

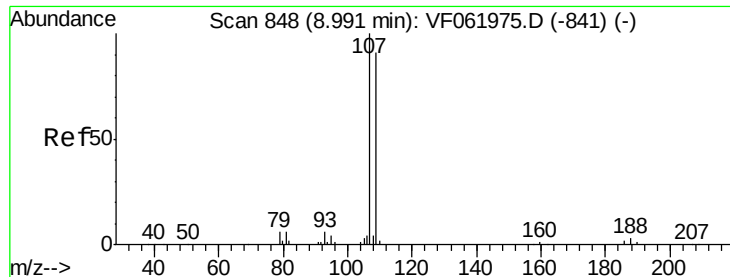
MMDadoda
3/22/2019 6:18:51 PM



#60
Dibromochloromethane
Concen: 21.276 ug/l
RT: 8.71 min Scan# 820
Delta R.T. -0.00 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Tgt Ion: 129 Resp: 50316
Ion Ratio Lower Upper
129 100
127 82.0 37.3 111.8





#61

1,2-Dibromoethane

Concen: 21.655 ug/l

RT: 8.99 min Scan# 848

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:107 Resp: 39570

Ion Ratio Lower Upper

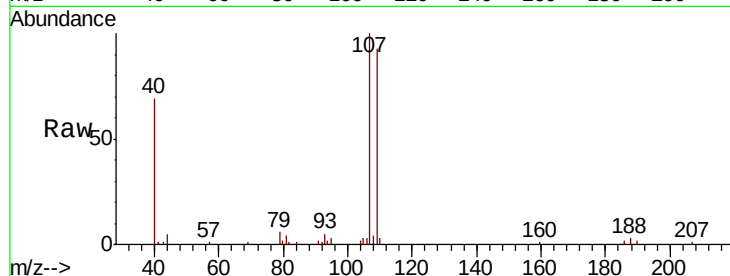
107 100

109 93.4 72.8 109.2

Manual Integrations
APPROVED

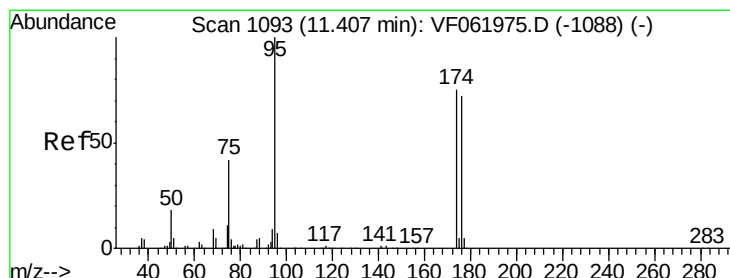
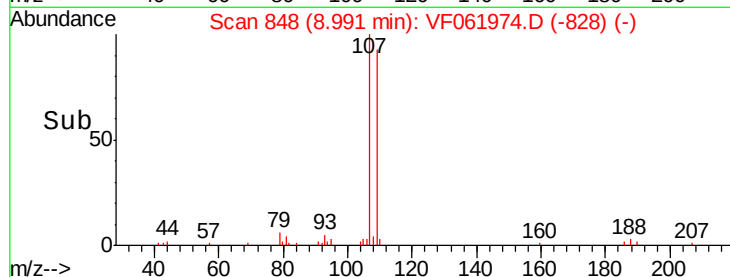
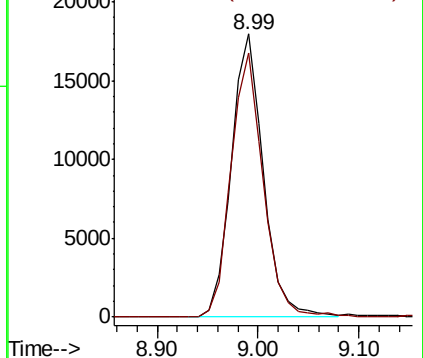
MMDadoda

3/22/2019 6:18:51 PM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 21.041 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.01 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

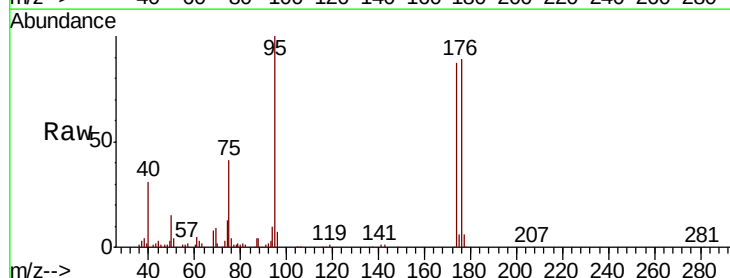
Tgt Ion: 95 Resp: 68502

Ion Ratio Lower Upper

95 100

174 87.2 0.0 149.4

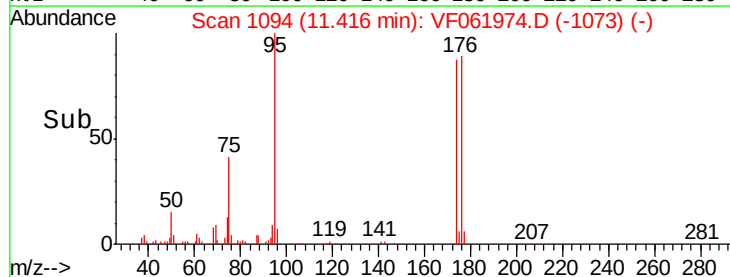
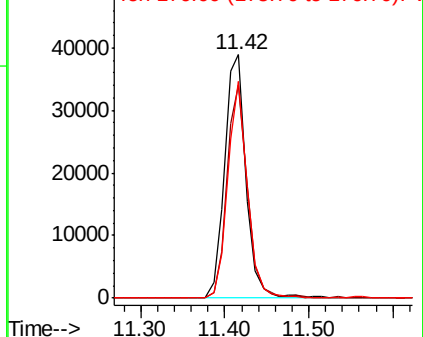
176 88.8 0.0 143.4

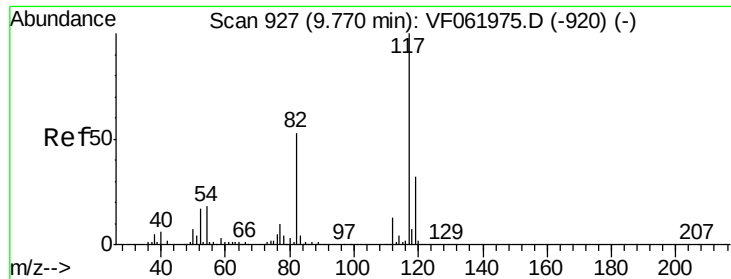


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.78 min Scan# 928

Delta R.T. 0.01 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

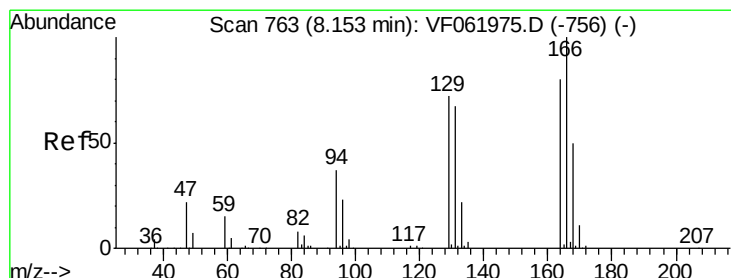
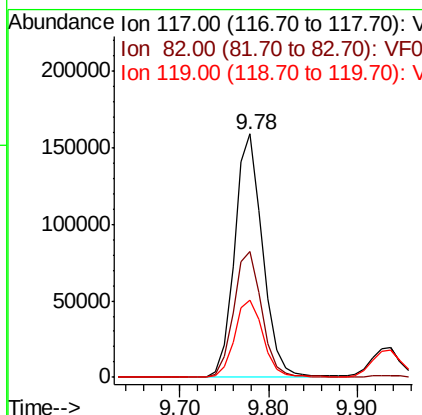
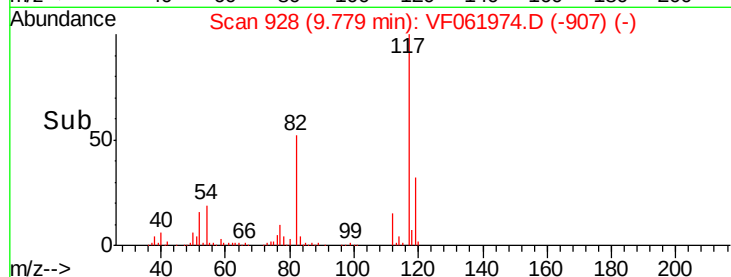
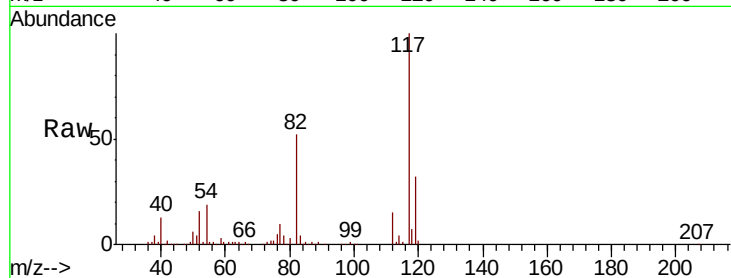
ClientSampleId :

VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
117	100	348559		
82	51.8	42.5	63.7	
119	31.8	25.4	38.0	

Manual Integrations
APPROVED

MMDadoda
3/22/2019 6:18:51 PM



#64

Tetrachloroethene

Concen: 22.170 ug/l

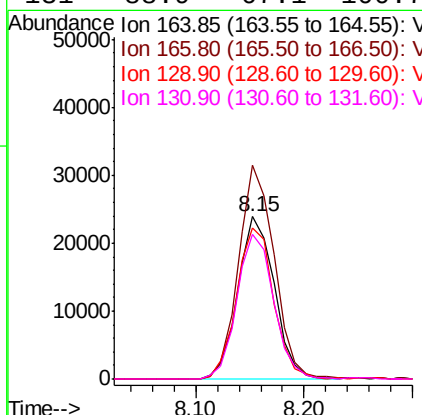
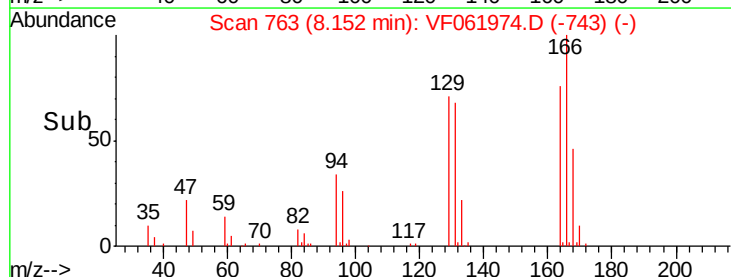
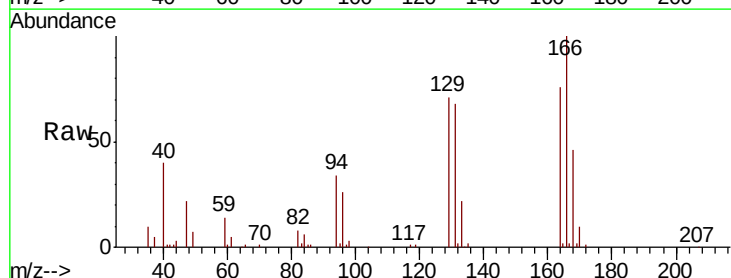
RT: 8.15 min Scan# 763

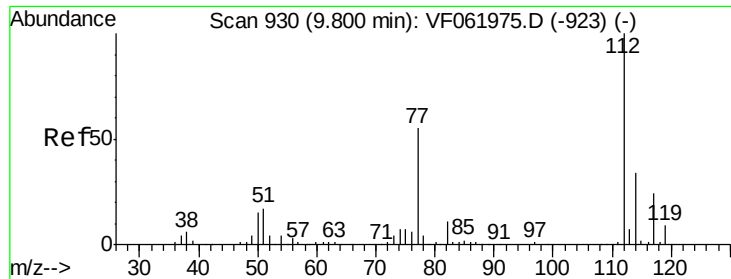
Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	56171		
166	131.5	100.0	150.0	
129	92.9	72.4	108.6	
131	88.9	67.1	100.7	





#65

Chlorobenzene

Concen: 22.779 ug/l

RT: 9.80 min Scan# 930

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:112 Resp: 147824

Ion Ratio Lower Upper

112 100

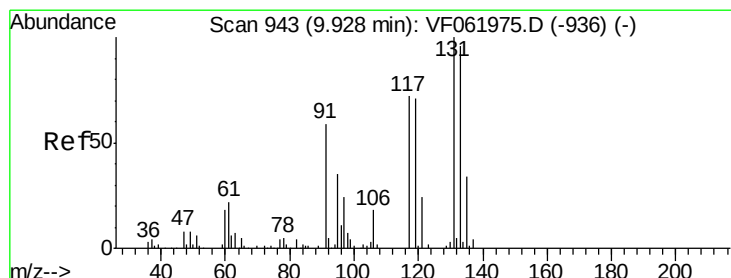
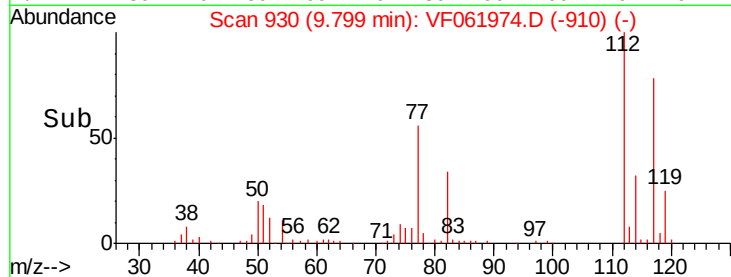
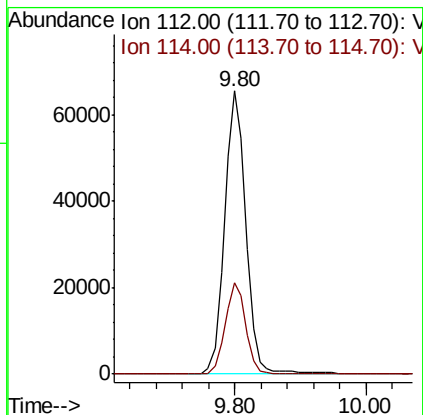
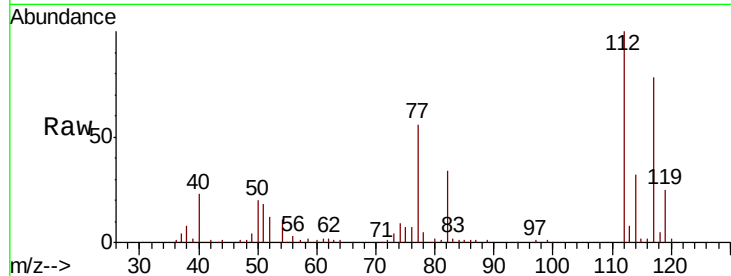
114 32.4 26.9 40.3

Manual Integrations

APPROVED

MMDadoda

3/22/2019 6:18:51 PM



#66

1,1,1,2-Tetrachloroethane

Concen: 23.580 ug/l

RT: 9.94 min Scan# 944

Delta R.T. 0.01 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

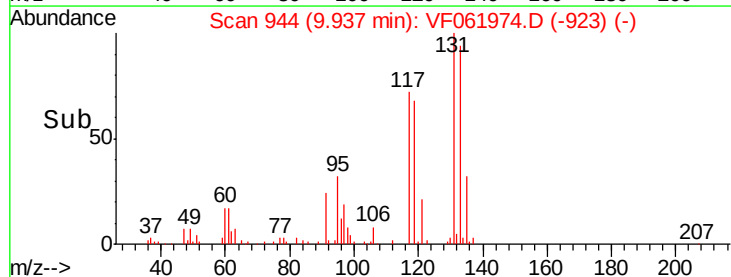
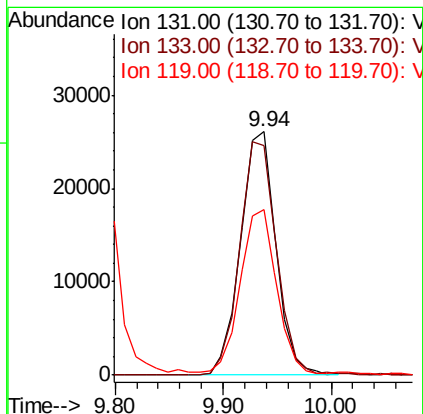
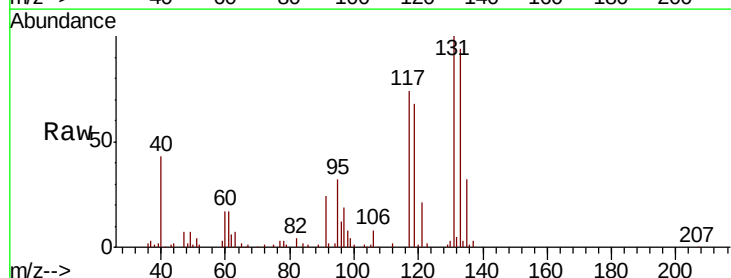
Tgt Ion:131 Resp: 59314

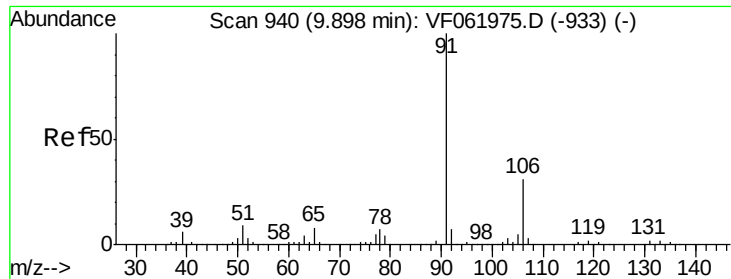
Ion Ratio Lower Upper

131 100

133 94.4 48.0 144.2

119 67.8 35.9 107.7





#67

Ethyl Benzene

Concen: 23.323 ug/l

RT: 9.90 min Scan# 940

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 259152

Ion Ratio Lower Upper

91 100

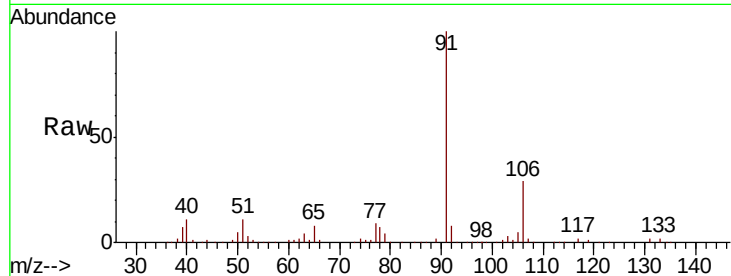
106 29.4 24.4 36.6

Manual Integrations

APPROVED

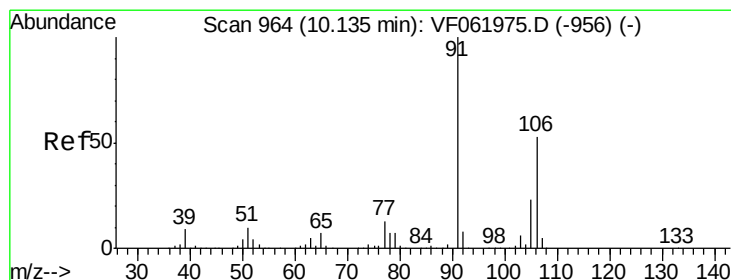
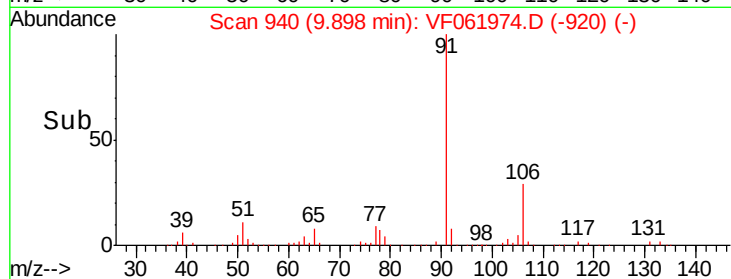
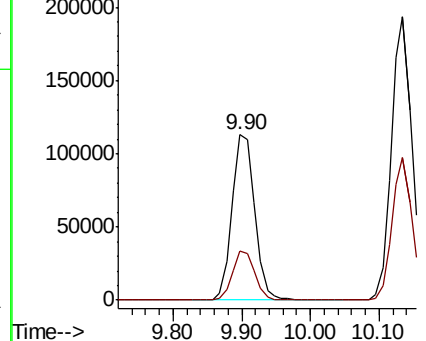
MMDadoda

3/22/2019 6:18:51 PM



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 48.036 ug/l

RT: 10.13 min Scan# 964

Delta R.T. -0.00 min

Lab File: VF061974.D

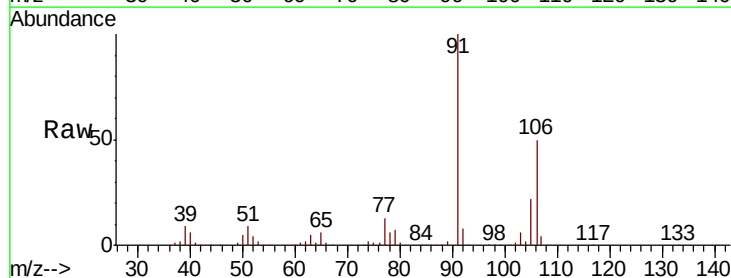
Acq: 16 Mar 2019 11:39

Tgt Ion:106 Resp: 200748

Ion Ratio Lower Upper

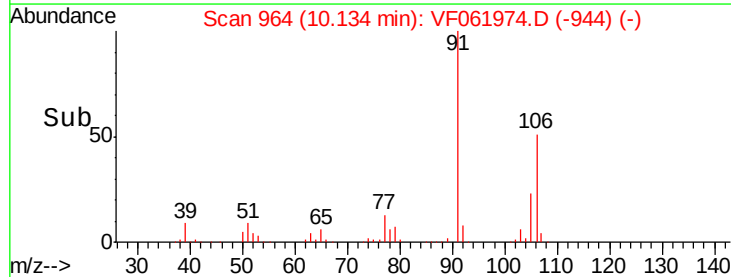
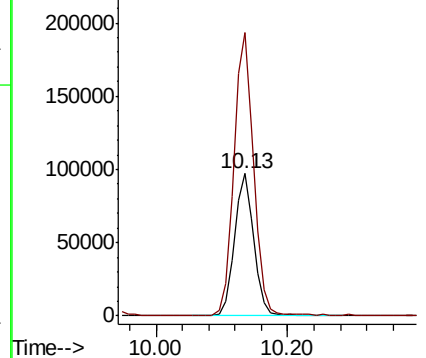
106 100

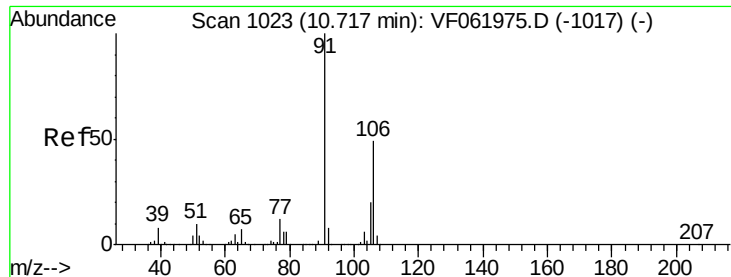
91 198.6 151.9 227.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





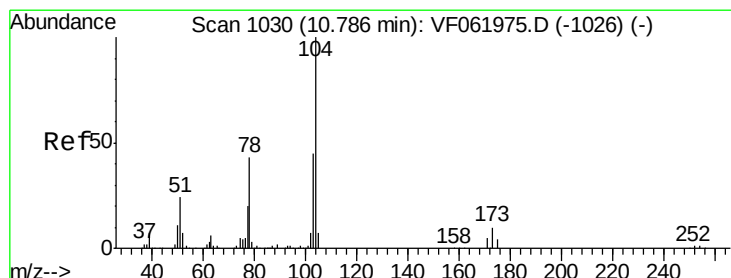
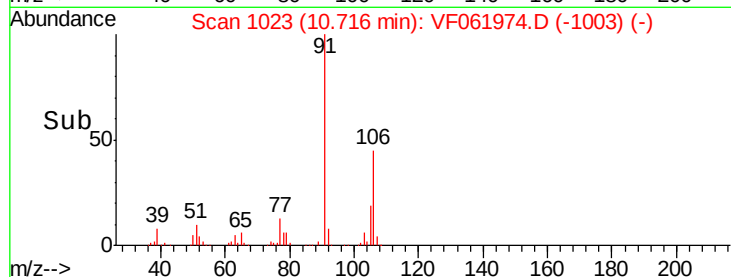
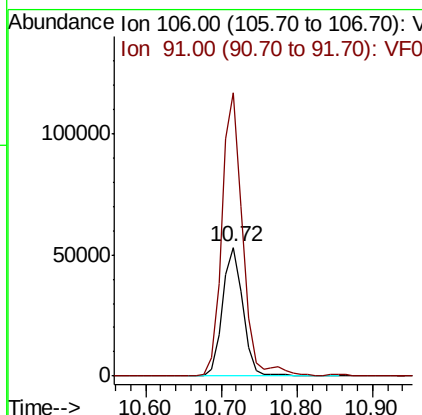
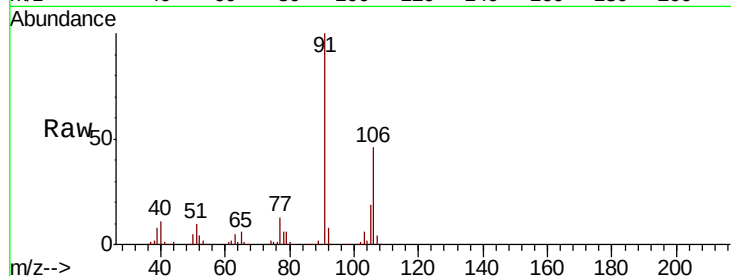
#69
o-Xylene
Concen: 22.288 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. -0.00 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Instrument :
MSVOA_F
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
106	100		
91	219.7	102.3	306.8

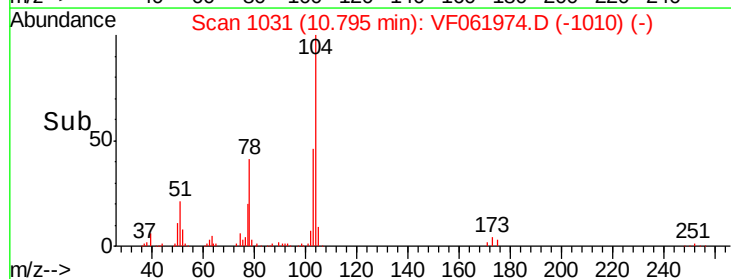
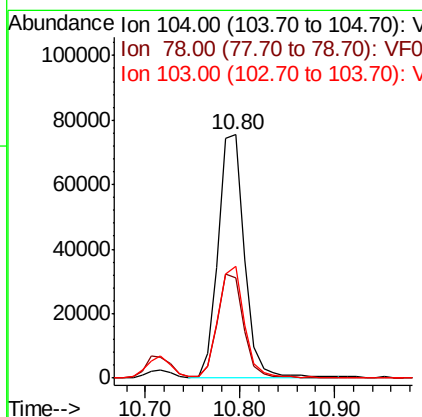
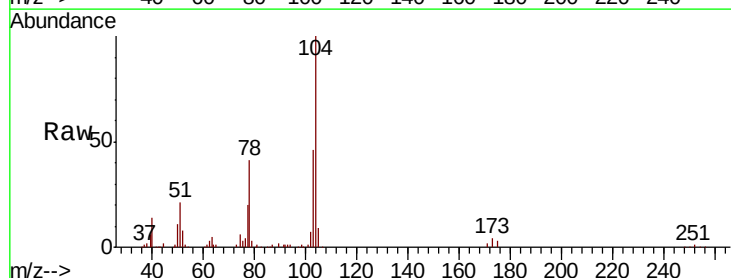
Manual Integrations
APPROVED

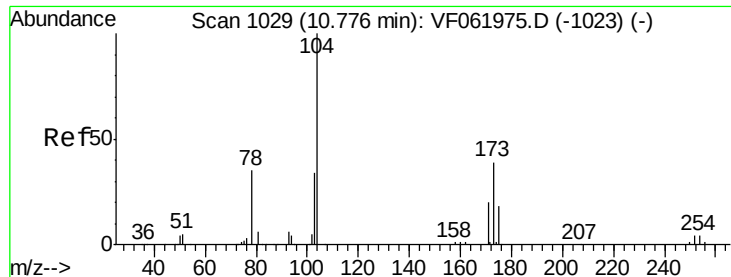
MMDadoda
3/22/2019 6:18:51 PM



#70
Styrene
Concen: 23.485 ug/l
RT: 10.80 min Scan# 1031
Delta R.T. 0.01 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Tgt Ion	Ratio	Lower	Upper
104	100		
78	41.4	34.7	52.1
103	45.9	36.6	54.8





#71

Bromoform

Concen: 20.934 ug/l

RT: 10.78 min Scan# 1029

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

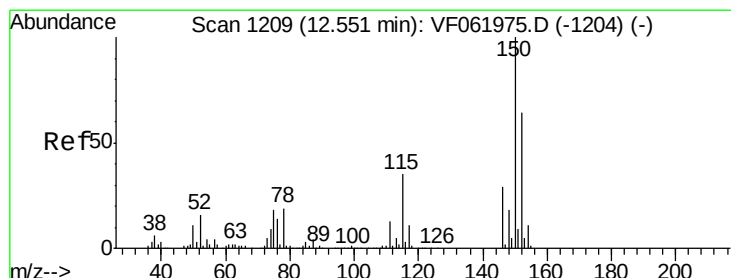
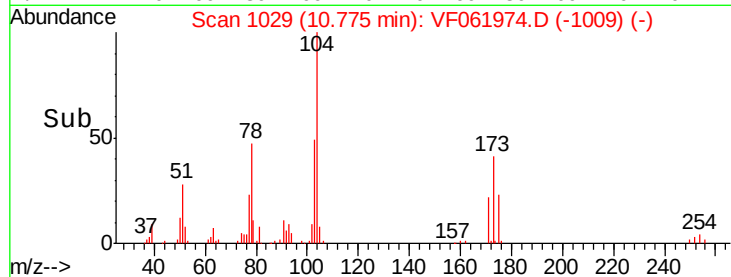
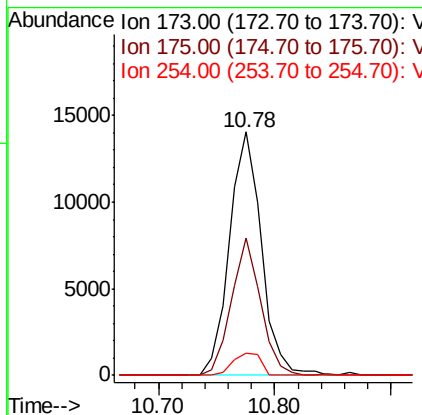
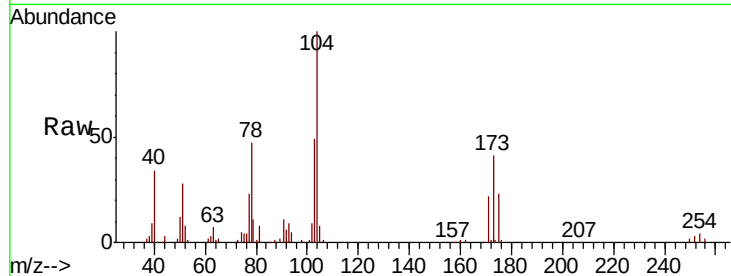
ClientSampleId :

VSTDIC020

Tot Ion	Ratio	Lower	Upper
173	100		
175	56.5	23.7	71.1
254	9.1	7.8	11.8

Manual Integrations
APPROVED

MMDadoda
3/22/2019 6:18:51 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

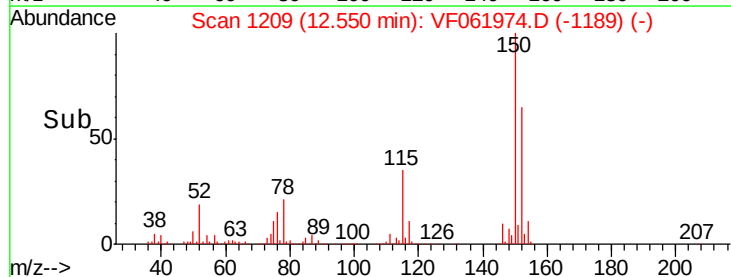
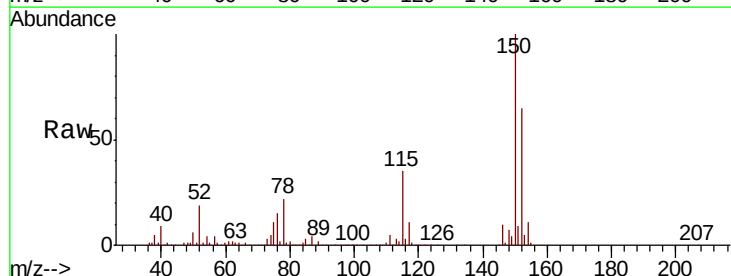
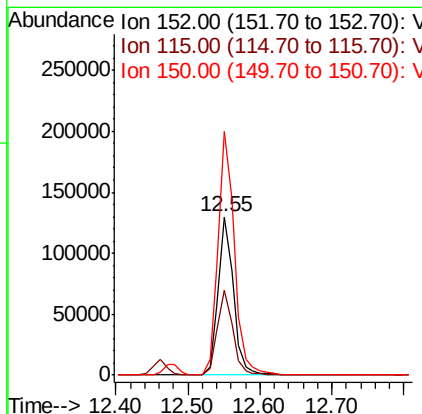
RT: 12.55 min Scan# 1209

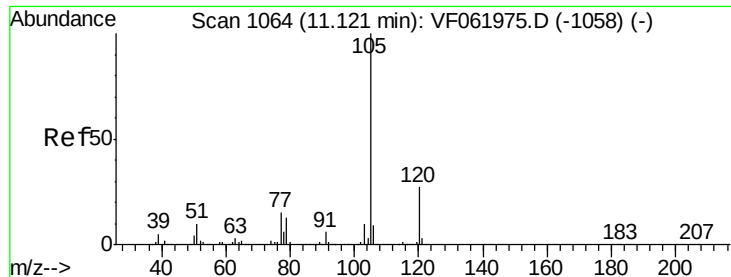
Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.9	27.3	81.9
150	154.0	0.0	316.2





#73

Isopropylbenzene

Concen: 23.291 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 303833

Ion Ratio Lower Upper

105 100

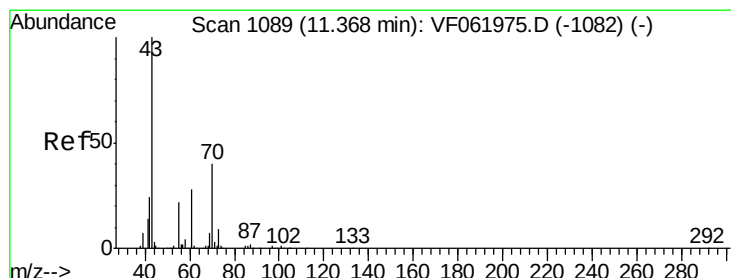
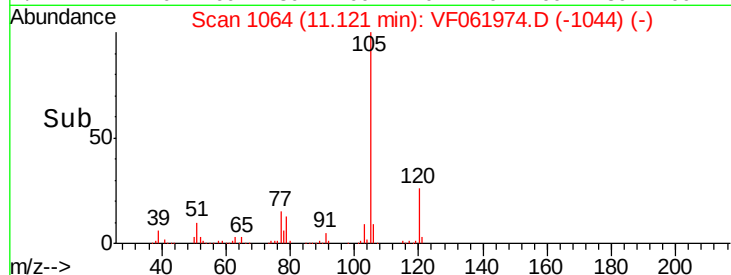
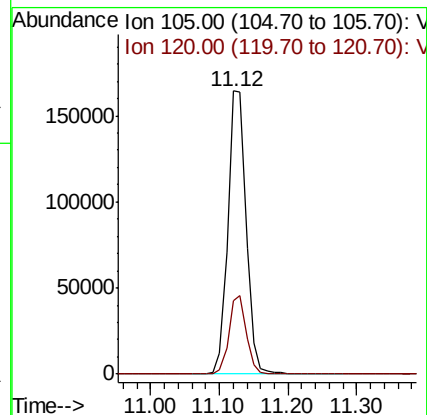
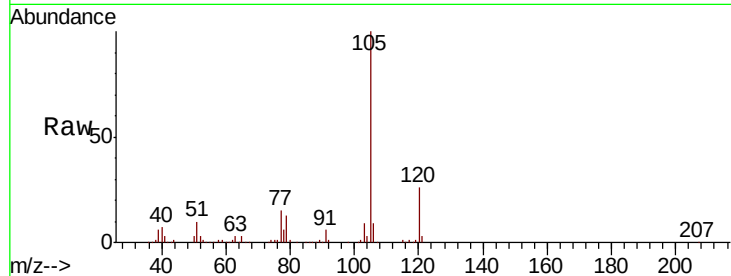
120 26.1 13.8 41.3

Manual Integrations

APPROVED

MMDadoda

3/22/2019 6:18:51 PM



#74

N-ethyl acetate

Concen: 21.370 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. 0.01 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Tgt Ion: 43 Resp: 63877

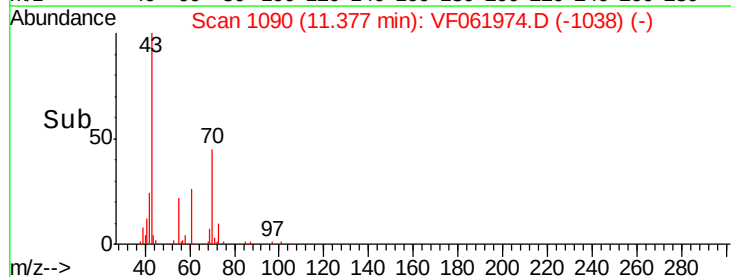
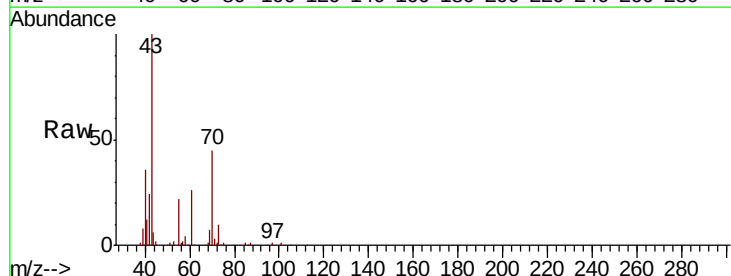
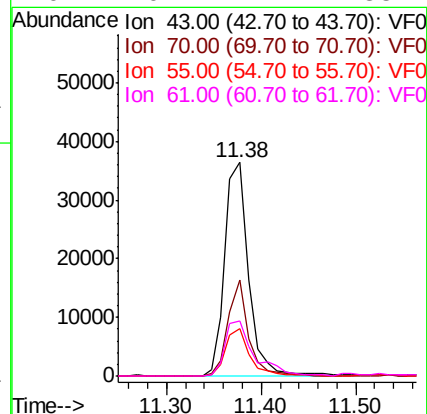
Ion Ratio Lower Upper

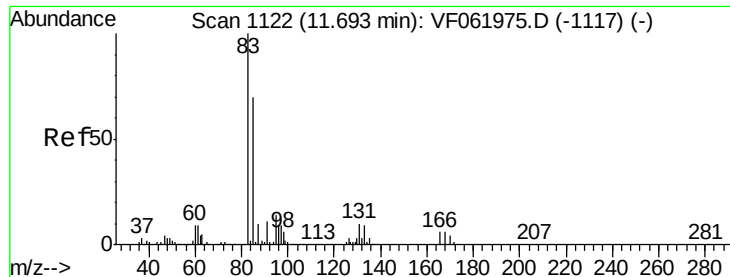
43 100

70 44.7 31.9 47.9

55 22.5 17.9 26.9

61 26.1 22.2 33.2





#75

1,1,2,2-Tetrachloroethane

Concen: 21.710 ug/l

RT: 11.69 min Scan# 1122

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

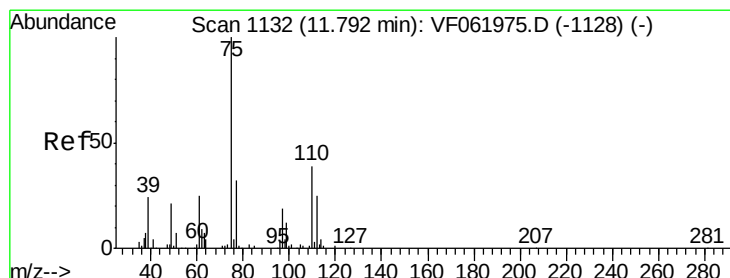
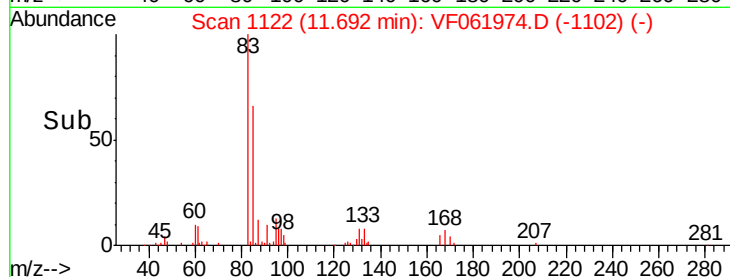
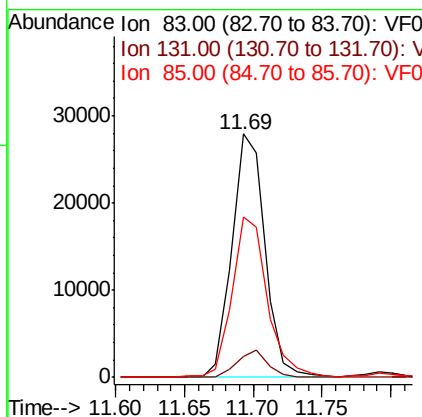
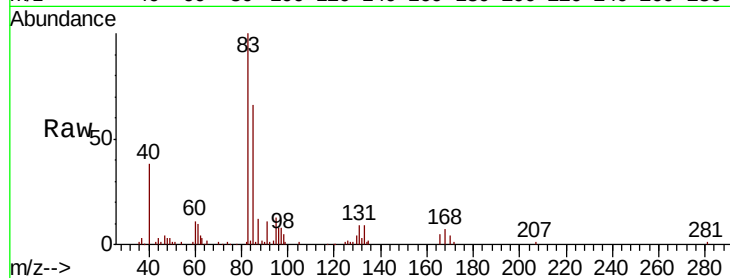
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	46748
Ion Ratio	Lower	Upper	
83	100		
131	8.7	4.9	14.7
85	65.7	35.3	105.9

Manual Integrations
APPROVED

MMDadoda
3/22/2019 6:18:51 PM



#76

1,2,3-Trichloropropane

Concen: 21.300 ug/l

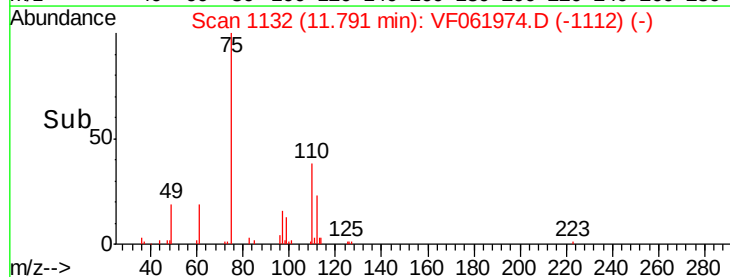
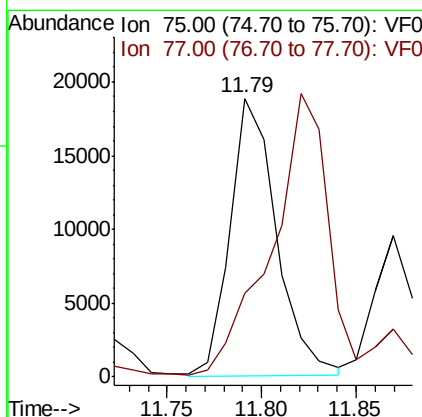
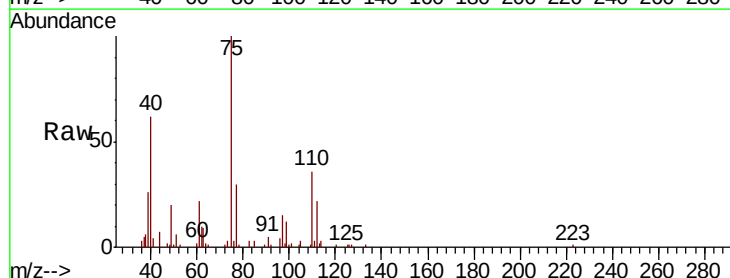
RT: 11.79 min Scan# 1132

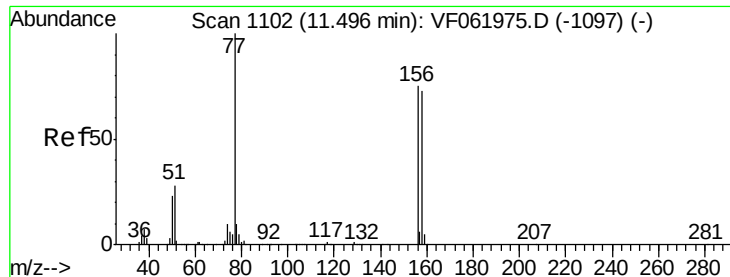
Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Tgt Ion:	75	Resp:	32072
Ion Ratio	Lower	Upper	
75	100		
77	30.1	16.4	49.2





#77

Bromobenzene

Concen: 22.688 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

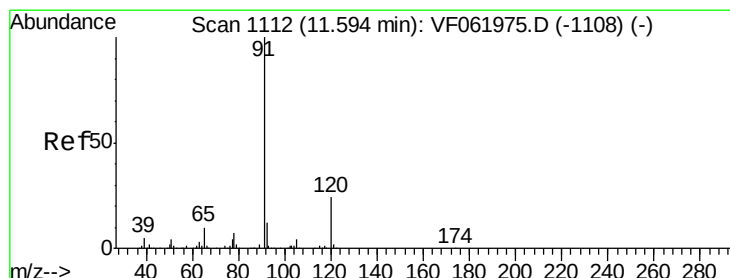
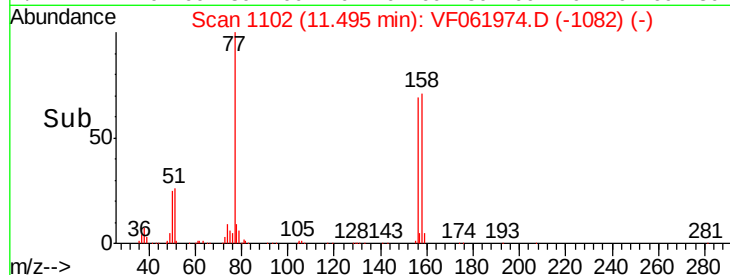
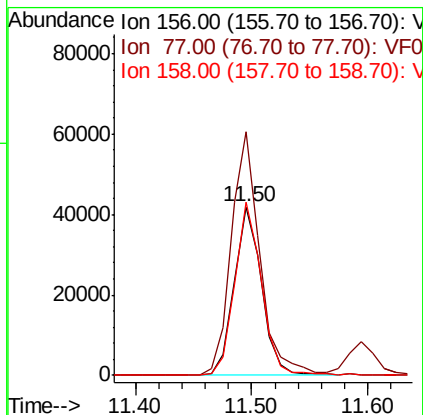
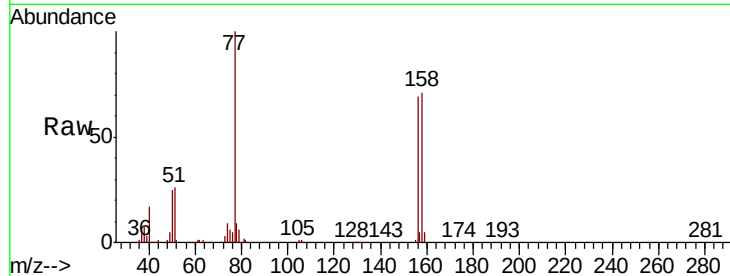
ClientSampleId :

VSTDIC020

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	144.5	67.0	201.0	
158	103.0	48.9	146.7	

Manual Integrations
APPROVED

MMDadoda
3/22/2019 6:18:51 PM



#78

n-propylbenzene

Concen: 23.588 ug/l

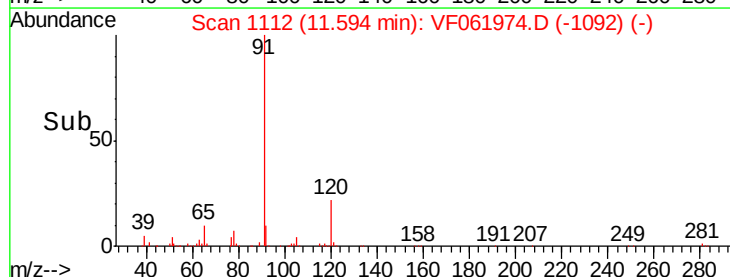
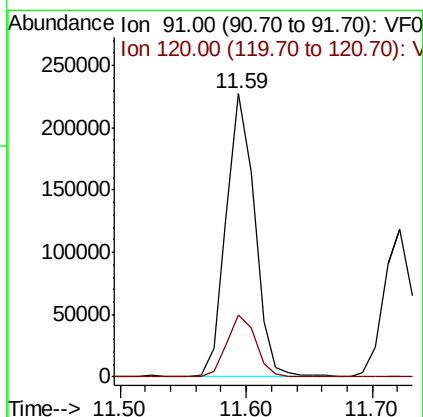
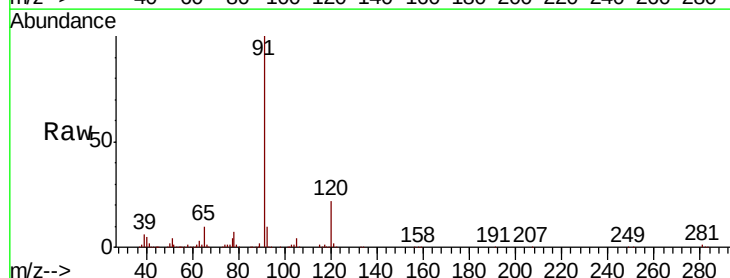
RT: 11.59 min Scan# 1112

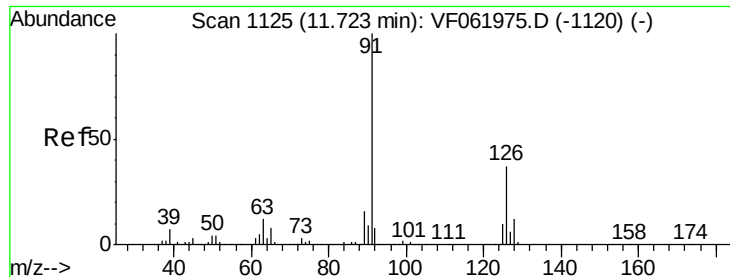
Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	21.7	11.8	35.3	





#79

2-Chlorotoluene

Concen: 22.126 ug/l

RT: 11.72 min Scan# 1125

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 187337

Ion Ratio Lower Upper

91 100

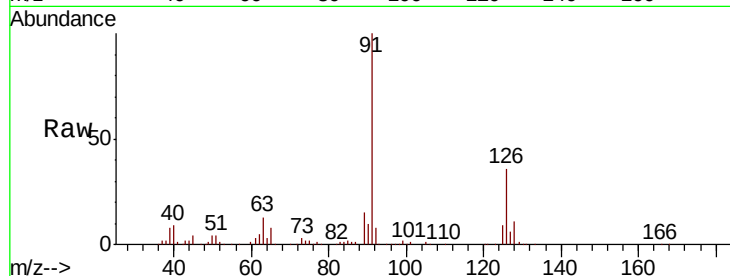
126 36.3 18.4 55.2

Manual Integrations

APPROVED

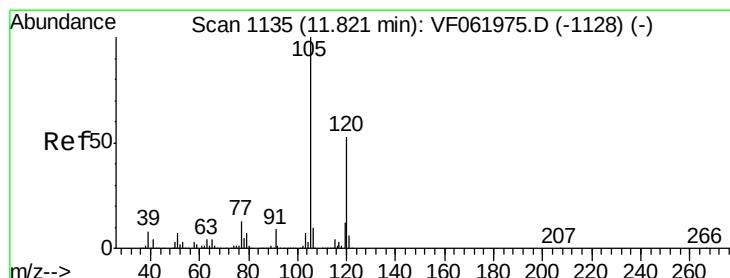
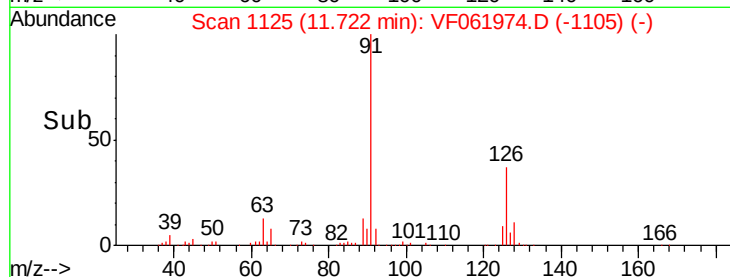
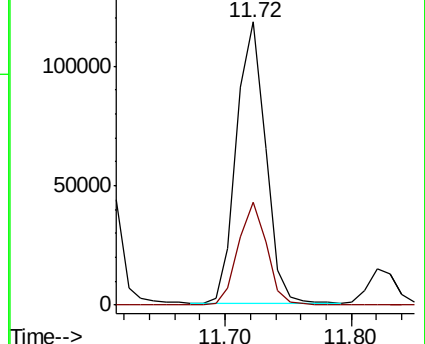
MMDadoda

3/22/2019 6:18:51 PM



Abundance Ion 91.00 (90.70 to 91.70): VF061975.D (-1120) (-)

Ion 126.00 (125.70 to 126.70): VF061975.D (-1120) (-)



#80

1,3,5-Trimethylbenzene

Concen: 22.896 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.00 min

Lab File: VF061974.D

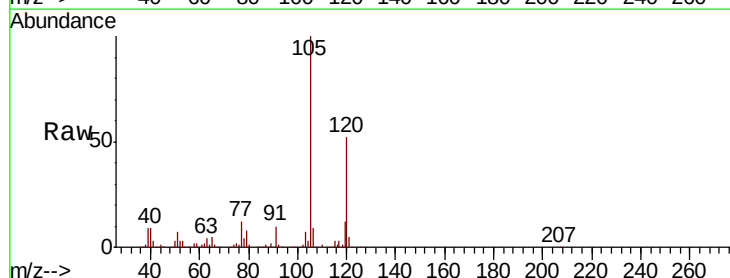
Acq: 16 Mar 2019 11:39

Tgt Ion: 105 Resp: 241278

Ion Ratio Lower Upper

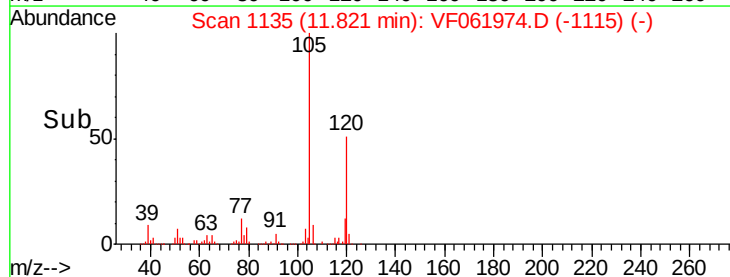
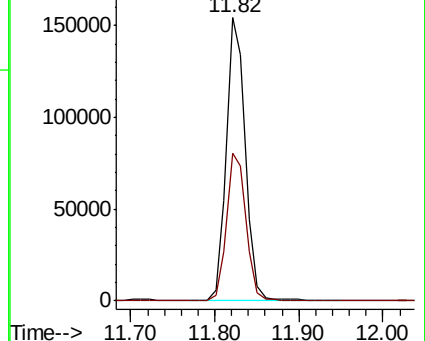
105 100

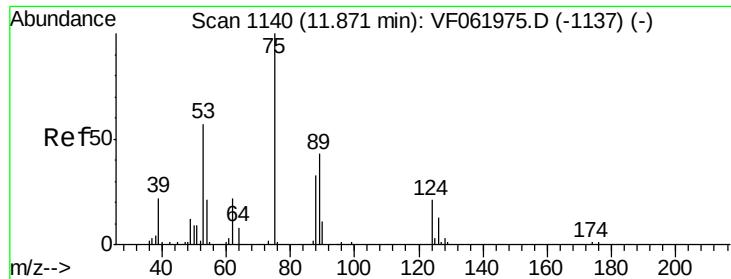
120 52.1 26.6 79.7



Abundance Ion 105.00 (104.70 to 105.70): VF061975.D (-1128) (-)

Ion 120.00 (119.70 to 120.70): VF061975.D (-1128) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 22.944 ug/l m

RT: 11.87 min Scan# 1140

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

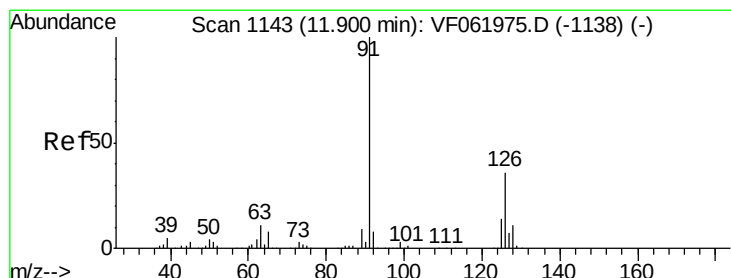
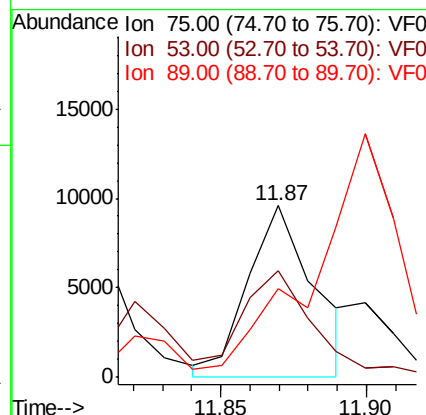
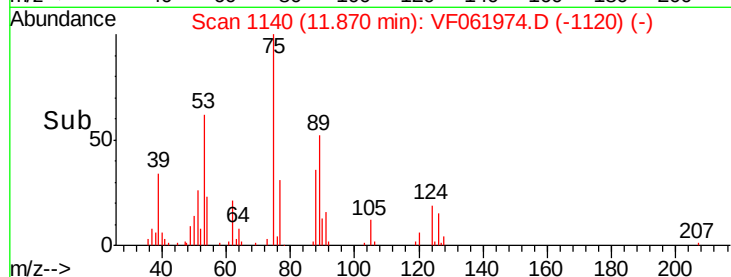
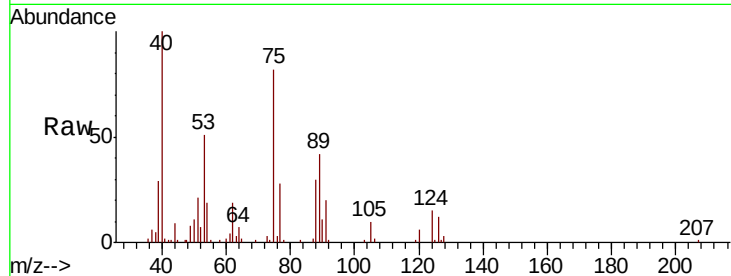
ClientSampleId :

VSTDIC020

Tot Ion:	75	Resp:	15283
Ion Ratio	Lower	Upper	
75	100		
53	62.4	49.0	73.6
89	52.0	37.1	55.7

Manual Integrations
APPROVED

MMDadoda
3/22/2019 6:18:51 PM



#82

4-Chlorotoluene

Concen: 22.596 ug/l

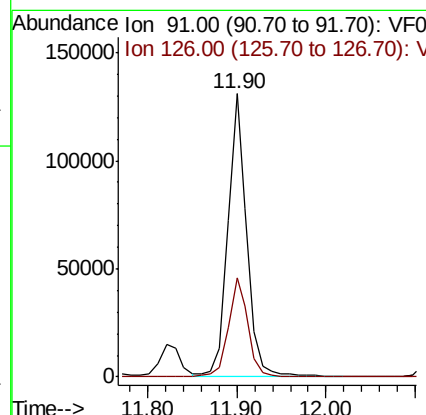
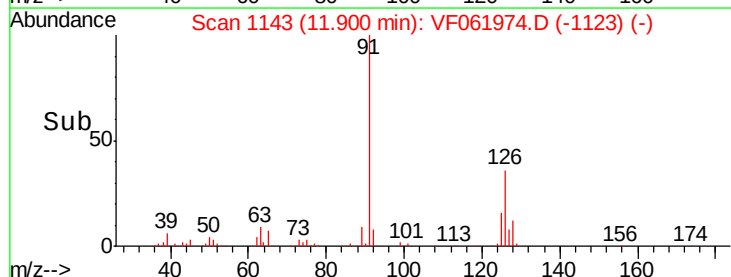
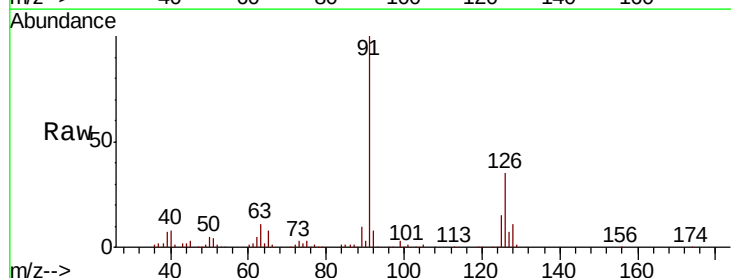
RT: 11.90 min Scan# 1143

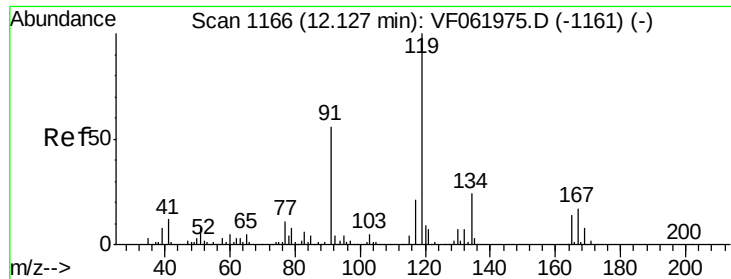
Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Tgt Ion:	91	Resp:	193469
Ion Ratio	Lower	Upper	
91	100		
126	35.1	18.1	54.1





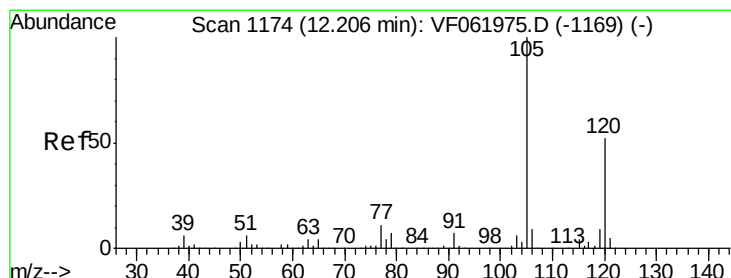
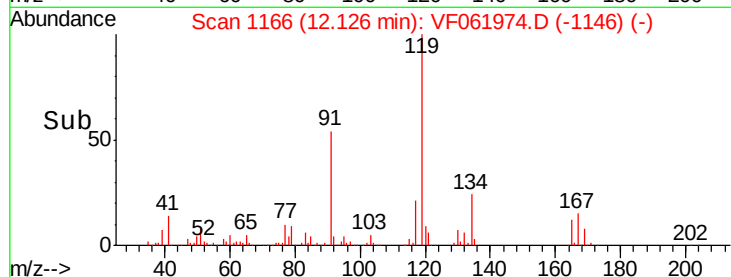
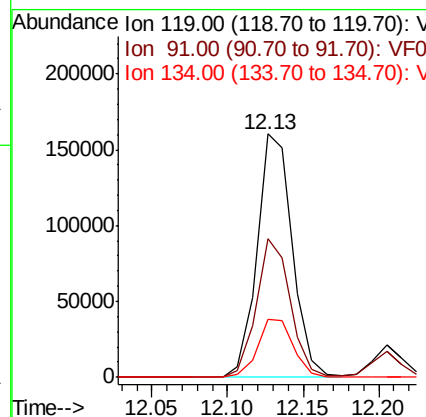
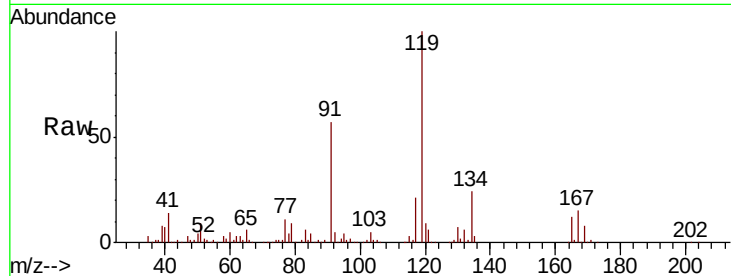
#83
 tert-Butylbenzene
 Concen: 23.602 ug/l
 RT: 12.13 min Scan# 1166
 Delta R.T. -0.00 min
 Lab File: VF061974.D
 Acq: 16 Mar 2019 11:39

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
119	100	260109		
91	56.8		27.9	83.6
134	23.8		12.3	36.8

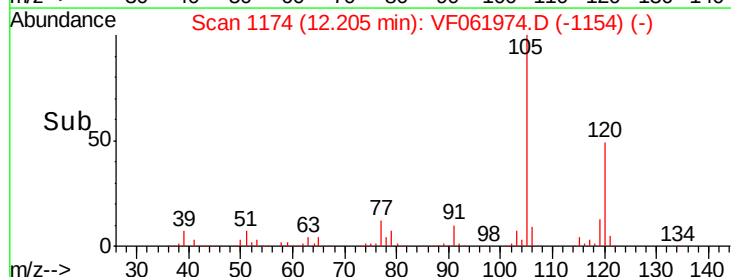
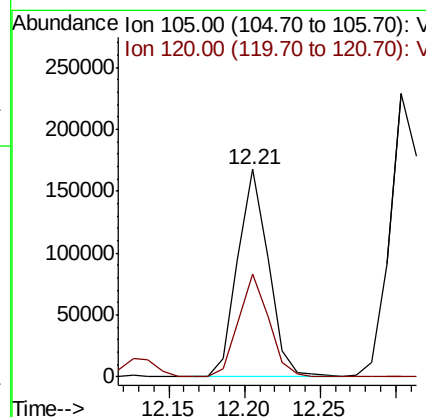
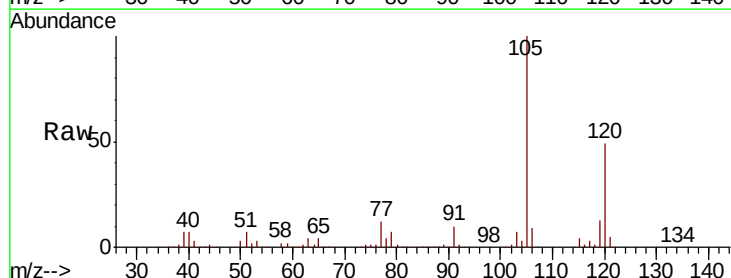
Manual Integrations
 APPROVED

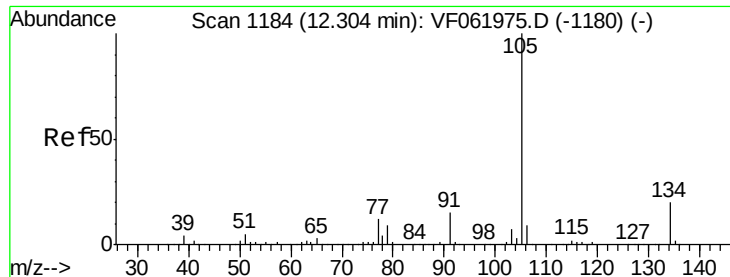
MMDadoda
 3/22/2019 6:18:51 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 22.595 ug/l
 RT: 12.21 min Scan# 1174
 Delta R.T. -0.00 min
 Lab File: VF061974.D
 Acq: 16 Mar 2019 11:39

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	238490		
120	49.4		25.9	77.8





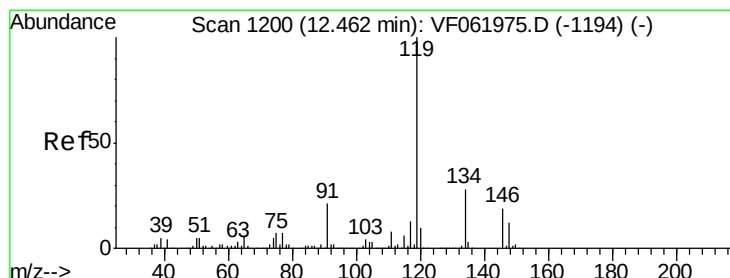
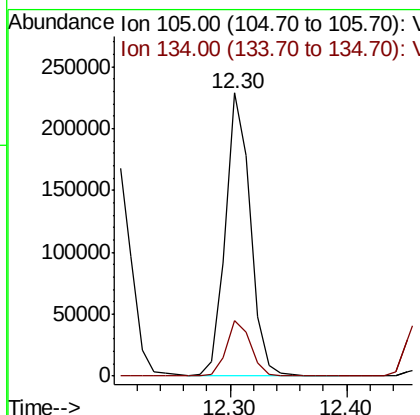
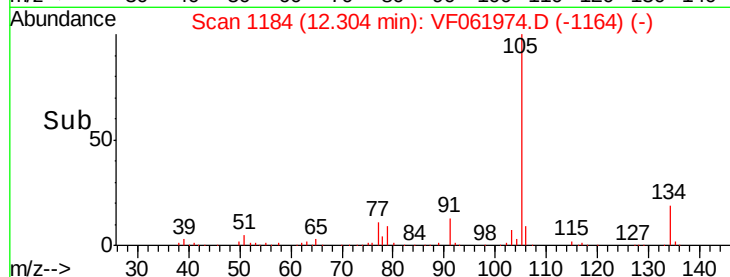
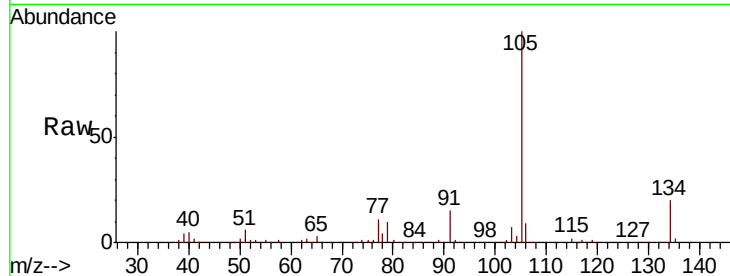
#85
 sec-Butylbenzene
 Concen: 22.726 ug/l
 RT: 12.30 min Scan# 1184
 Delta R.T. -0.00 min
 Lab File: VF061974.D
 Acq: 16 Mar 2019 11:39

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion:105 Resp: 338390
 Ion Ratio Lower Upper
 105 100
 134 19.8 10.0 29.8

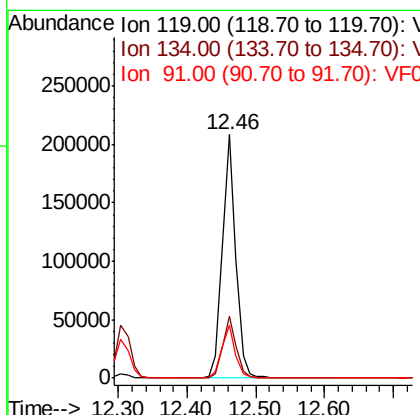
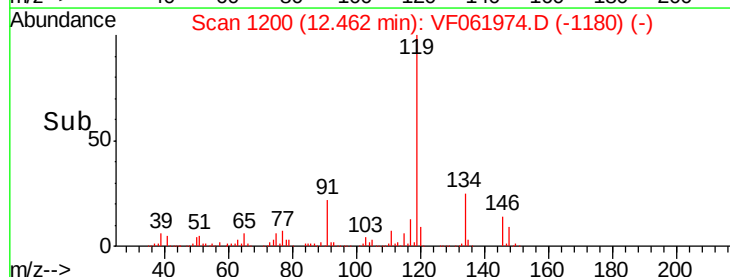
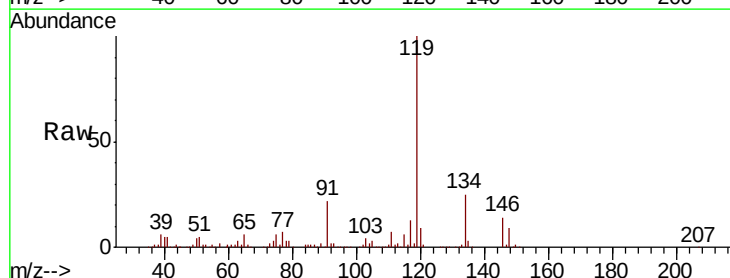
Manual Integrations
 APPROVED

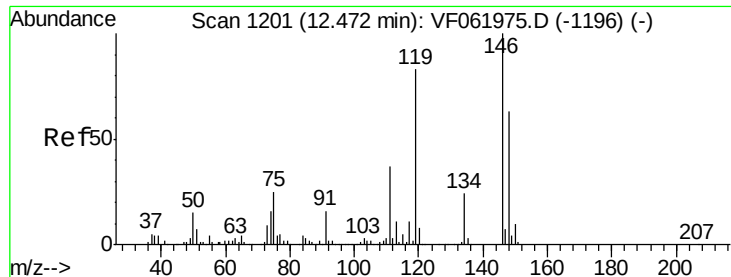
MMDadoda
 3/22/2019 6:18:51 PM



#86
 p-Isopropyltoluene
 Concen: 22.791 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.00 min
 Lab File: VF061974.D
 Acq: 16 Mar 2019 11:39

Tgt Ion:119 Resp: 283163
 Ion Ratio Lower Upper
 119 100
 134 25.3 13.9 41.7
 91 21.7 10.4 31.1





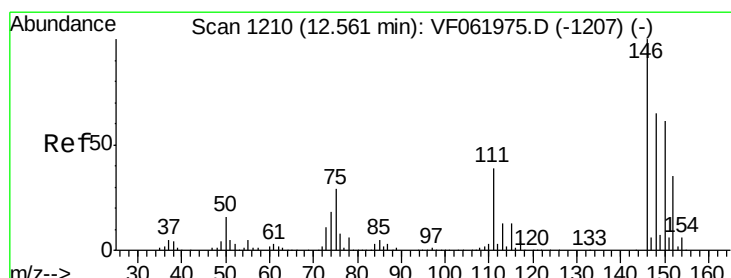
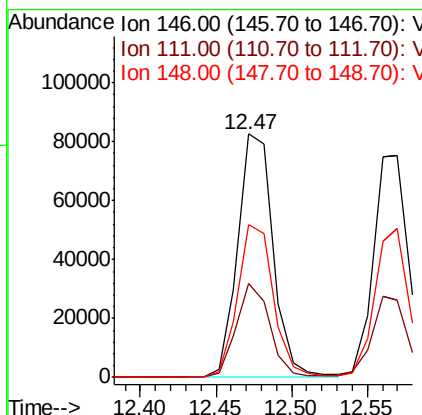
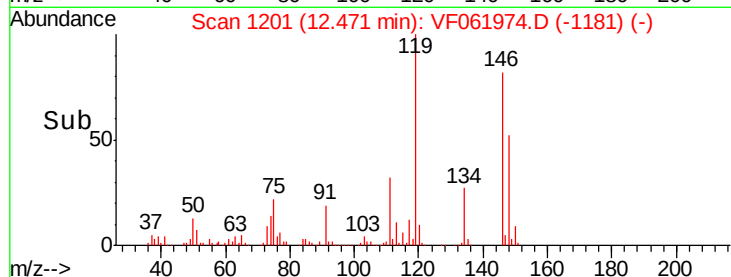
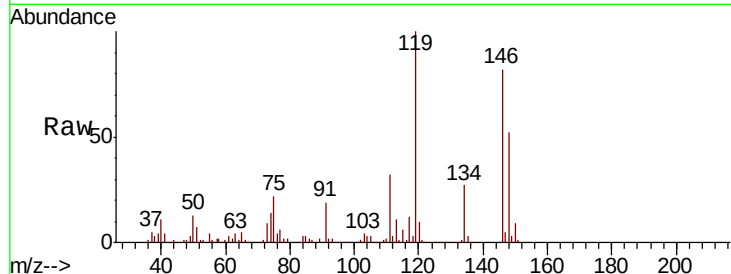
#87
 1,3-Dichlorobenzene
 Concen: 22.753 ug/l
 RT: 12.47 min Scan# 1201
 Delta R.T. -0.00 min
 Lab File: VF061974.D
 Acq: 16 Mar 2019 11:39

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.8	18.6	55.8
148	62.8	31.3	93.9

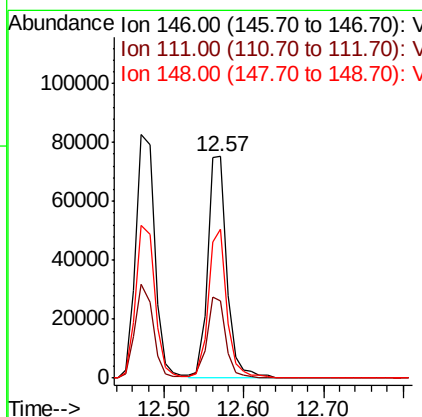
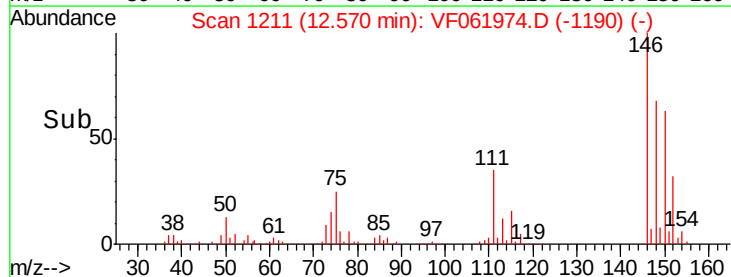
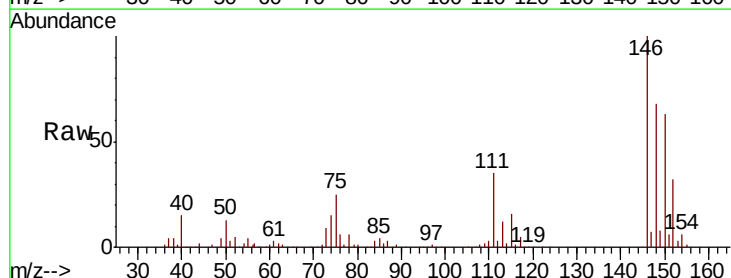
Manual Integrations
 APPROVED

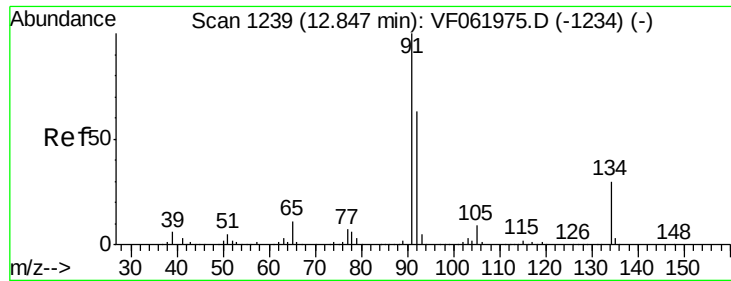
MMDadoda
 3/22/2019 6:18:51 PM



#88
 1,4-Dichlorobenzene
 Concen: 22.495 ug/l
 RT: 12.57 min Scan# 1211
 Delta R.T. 0.01 min
 Lab File: VF061974.D
 Acq: 16 Mar 2019 11:39

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.0	19.4	58.1
148	67.5	32.4	97.0





#89

n-Butylbenzene

Concen: 23.393 ug/l

RT: 12.85 min Scan# 1239

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

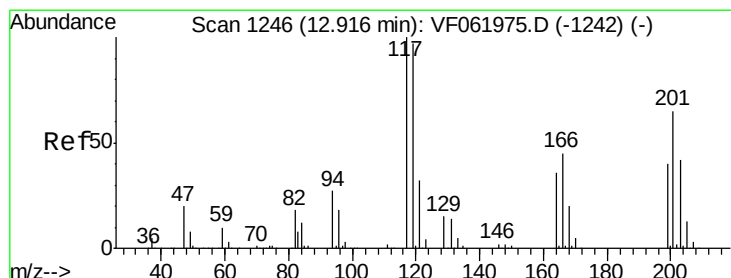
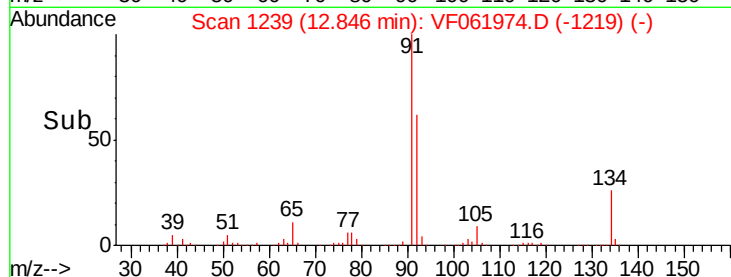
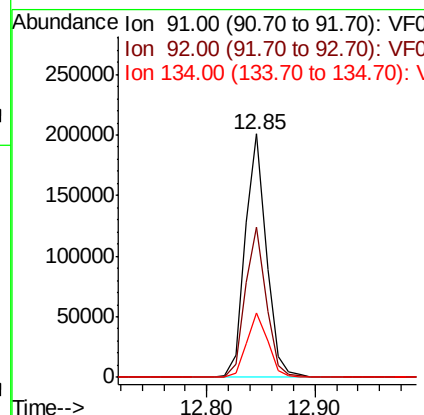
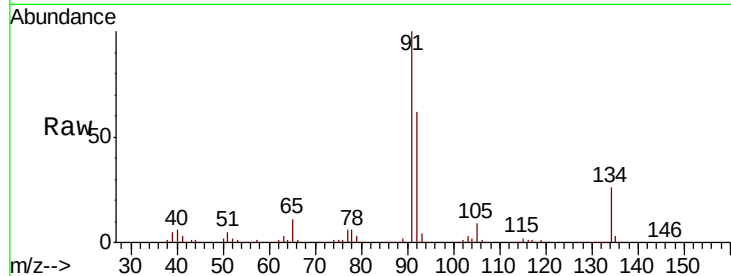
ClientSampleId :

VSTDIC020

Tot Ion:	91	Resp:	273116
Ion Ratio	Lower	Upper	
91	100		
92	61.5	31.7	95.1
134	26.2	15.1	45.3

Manual Integrations
APPROVED

MMDadoda
3/22/2019 6:18:51 PM



#90

Hexachloroethane

Concen: 23.021 ug/l

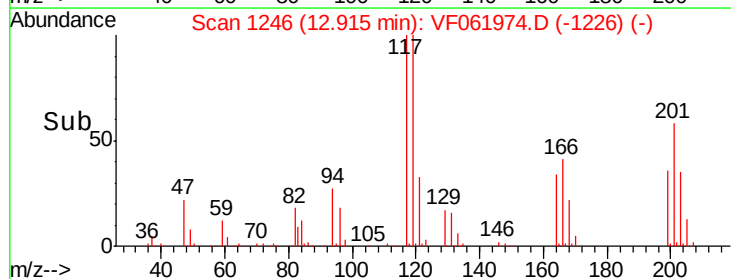
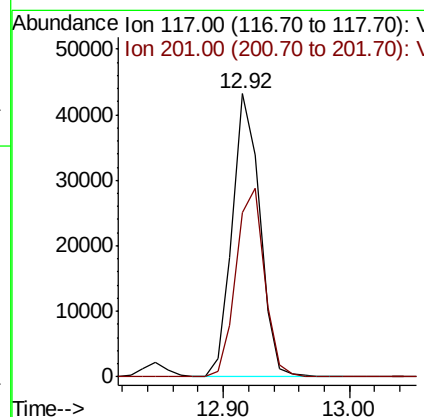
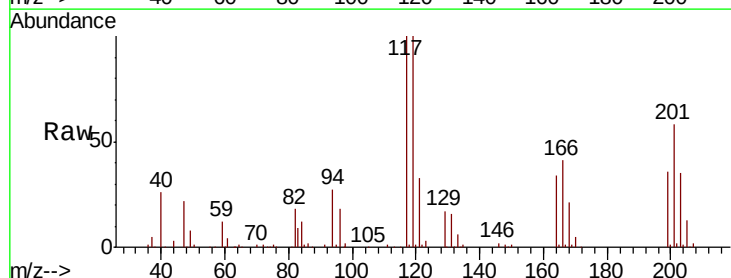
RT: 12.92 min Scan# 1246

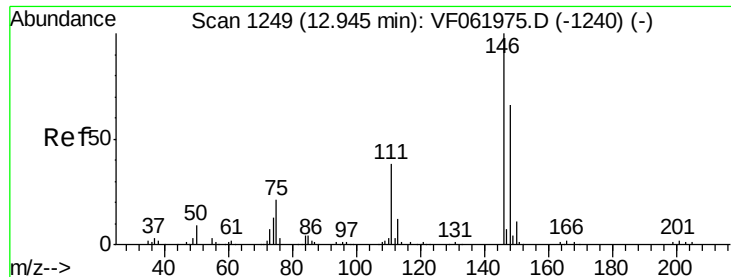
Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Tgt Ion:	117	Resp:	65274
Ion Ratio	Lower	Upper	
117	100		
201	58.0	32.5	97.5





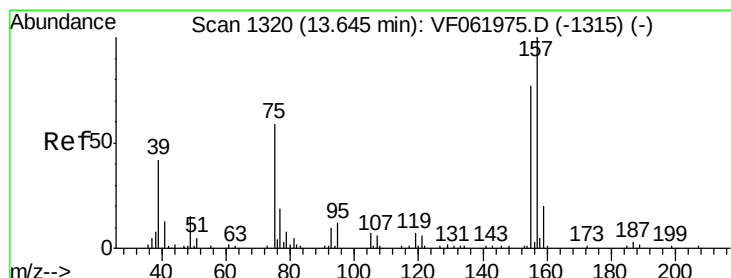
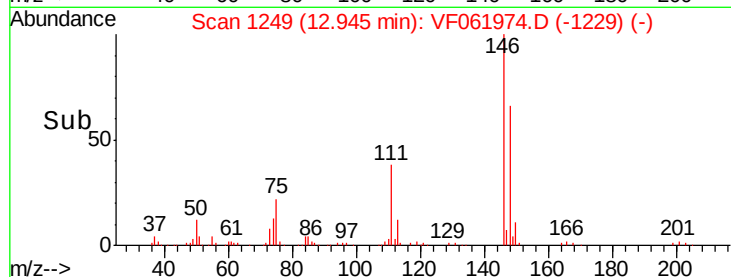
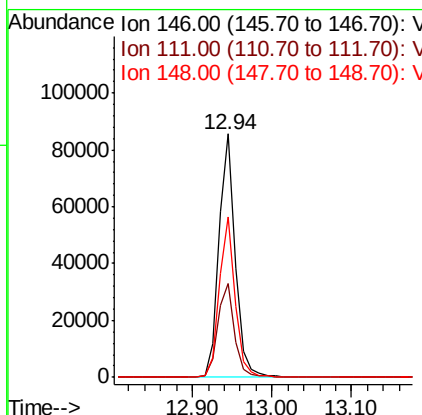
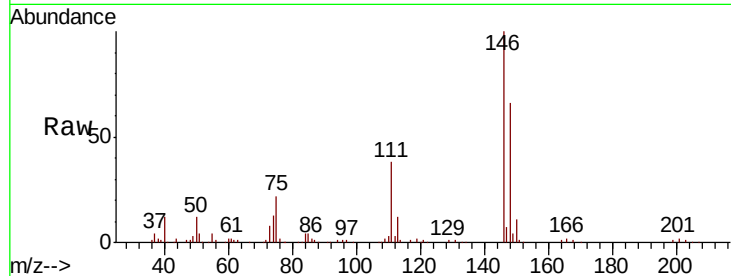
#91
 1,2-Dichlorobenzene
 Concen: 22.687 ug/l
 RT: 12.94 min Scan# 1249
 Delta R.T. -0.00 min
 Lab File: VF061974.D
 Acq: 16 Mar 2019 11:39

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.5	18.9	56.5
148	66.0	32.9	98.6

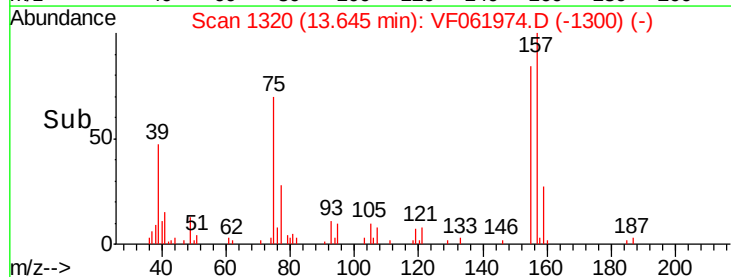
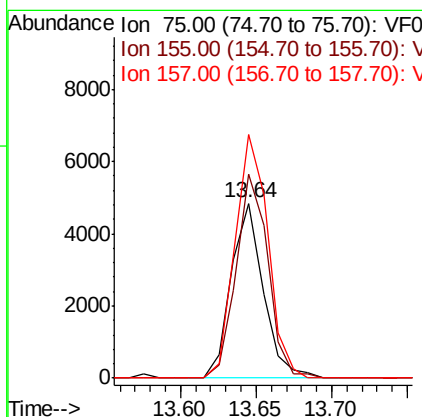
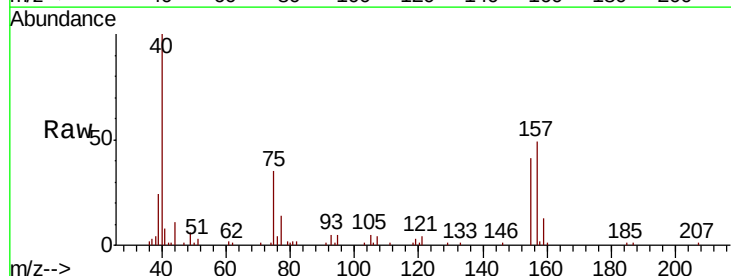
Manual Integrations
 APPROVED

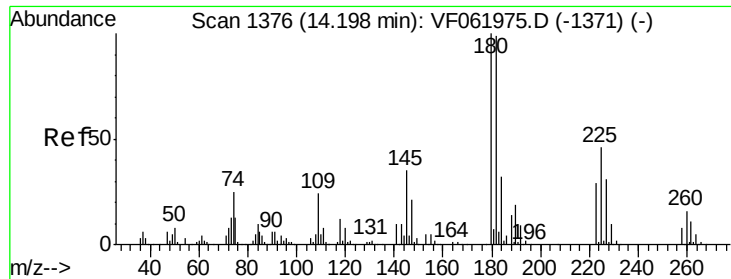
MMDadoda
 3/22/2019 6:18:51 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.658 ug/l
 RT: 13.64 min Scan# 1320
 Delta R.T. -0.00 min
 Lab File: VF061974.D
 Acq: 16 Mar 2019 11:39

Tgt Ion	Ratio	Lower	Upper
75	100		
155	116.3	65.0	195.1
157	139.1	84.7	254.0





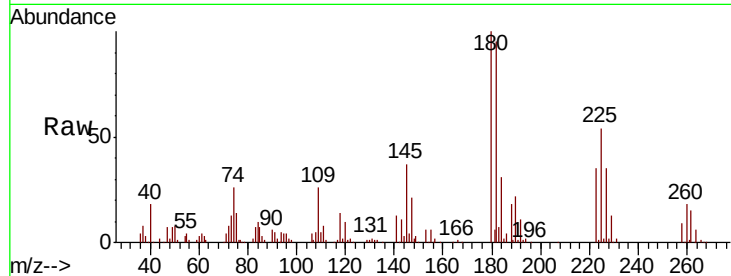
#93
 1,2,4-Trichlorobenzene
 Concen: 22.713 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.00 min
 Lab File: VF061974.D
 Acq: 16 Mar 2019 11:39

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
180	100	86982		
182	94.8	49.6	149.0	
145	36.7	17.5	52.5	

Manual Integrations
 APPROVED

MMDadoda
 3/22/2019 6:18:51 PM

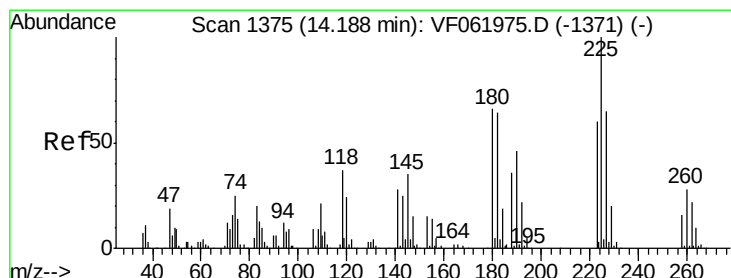
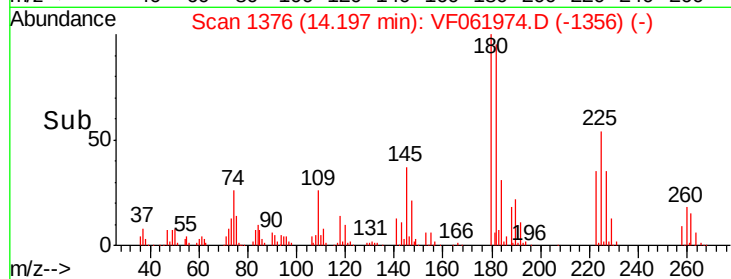
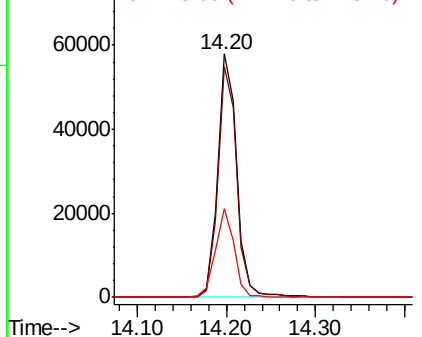


Abundance

Ion 180.00 (179.70 to 180.70): V

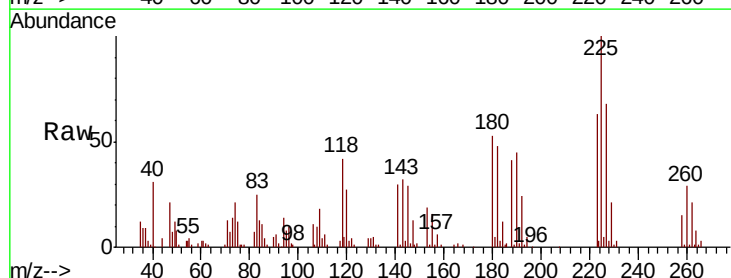
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#94
 Hexachlorobutadiene
 Concen: 22.013 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.00 min
 Lab File: VF061974.D
 Acq: 16 Mar 2019 11:39

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	55963		
223	62.8	29.9	89.7	
227	68.3	32.4	97.2	

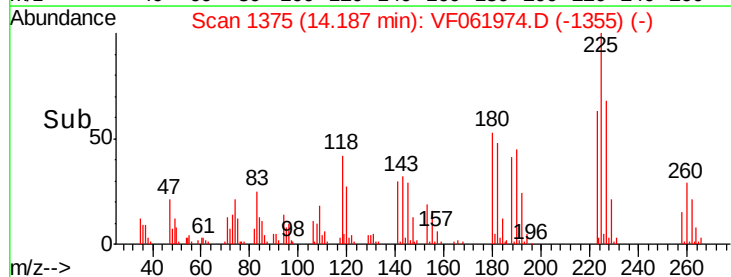
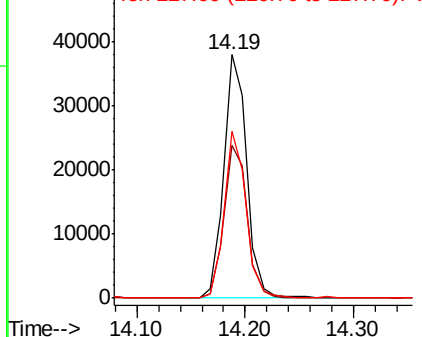


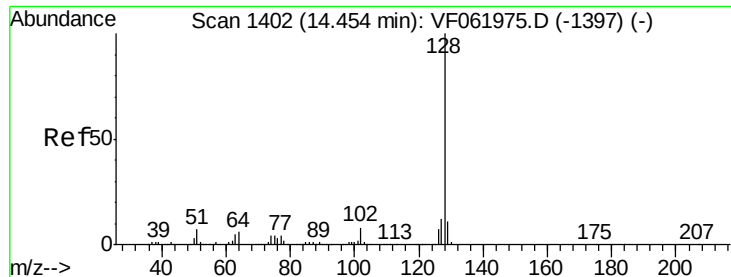
Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





#95

Naphthalene

Concen: 20.846 ug/l

RT: 14.45 min Scan# 1402

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

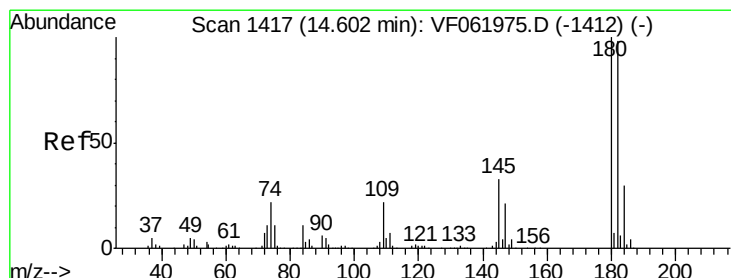
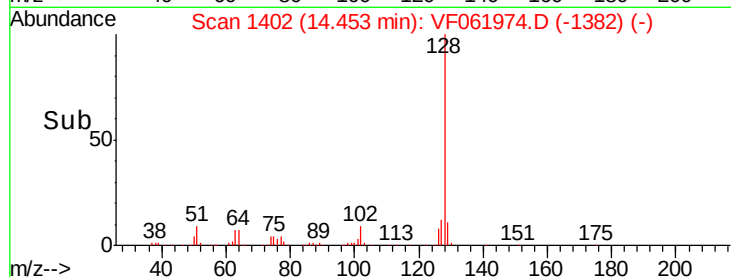
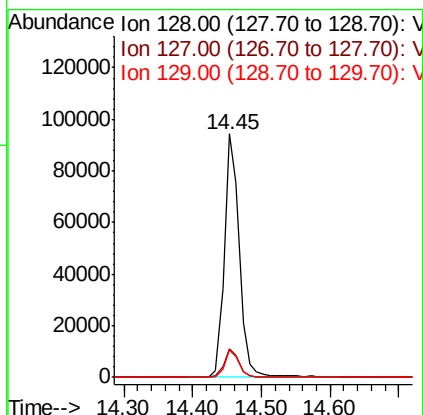
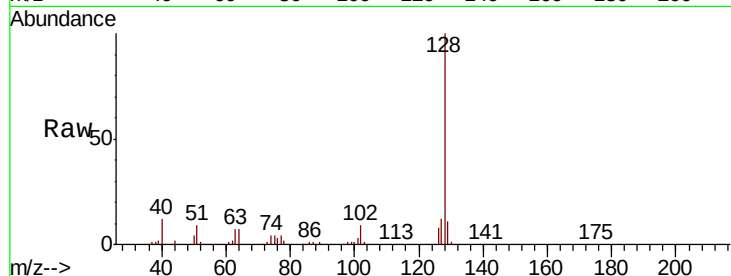
ClientSampleId :

VSTDIC020

Tot Ion:	128	Resp:	143578
Ion Ratio	Lower	Upper	
128	100		
127	12.0	9.3	13.9
129	11.5	9.1	13.7

Manual Integrations
APPROVED

MMDadoda
3/22/2019 6:18:51 PM



#96

1,2,3-Trichlorobenzene

Concen: 22.487 ug/l

RT: 14.60 min Scan# 1417

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Tgt Ion:	180	Resp:	79225
Ion Ratio	Lower	Upper	
180	100		
182	97.0	48.9	146.8
145	34.6	16.7	50.1

