

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW121618\
 Data File : VW007497.D
 Acq On : 13 Dec 2018 20:47
 Operator : SY/AP
 Sample : VSTDCCC050
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 12/14/2018 11:24:57 AM

Quant Time: Dec 14 04:34:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W121118S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 11 02:58:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	78720	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	129300	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	118968	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	57059	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	44940	51.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.92%	
35) Dibromofluoromethane	7.88	113	42626	54.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.92%	
50) Toluene-d8	10.32	98	159700	54.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.84%	
62) 4-Bromofluorobenzene	12.62	95	61843	57.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.62%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	26013	47.288	ug/l	98
3) Chloromethane	2.22	50	23060	50.053	ug/l	99
4) Vinyl Chloride	2.37	62	28248	52.247	ug/l	100
5) Bromomethane	2.78	94	19001	52.307	ug/l	94
6) Chloroethane	2.93	64	15900	53.425	ug/l	93
7) Trichlorofluoromethane	3.26	101	24008	49.391	ug/l	99
8) Diethyl Ether	3.68	74	17525	46.065	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	4.06	101	41093	51.235	ug/l	98
10) Methyl Iodide	4.26	142	65845	49.569	ug/l	99
11) Tert butyl alcohol	5.17	59	16083	268.141	ug/l	99
12) 1,1-Dichloroethene	4.03	96	38742	50.170	ug/l	96
13) Acrolein	3.89	56	11234	283.057	ug/l	97
14) Allyl chloride	4.67	41	56867	49.959	ug/l	99
15) Acrylonitrile	5.37	53	43497	271.214	ug/l	100
16) Acetone	4.12	43	41406	271.433	ug/l	98
17) Carbon Disulfide	4.38	76	115367	49.272	ug/l	96
18) Methyl Acetate	4.67	43	22030	53.209	ug/l	99
19) Methyl tert-butyl Ether	5.42	73	62479	53.633	ug/l	96
20) Methylene Chloride	4.91	84	41832	50.158	ug/l	97
21) trans-1,2-Dichloroethene	5.42	96	43010	49.789	ug/l	97
22) Diisopropyl ether	6.31	45	111195	50.822	ug/l	97
23) Vinyl Acetate	6.26	43	335652	274.276	ug/l	98
24) 1,1-Dichloroethane	6.21	63	72664	49.140	ug/l	98
25) 2-Butanone	7.17	43	57318	287.815	ug/l	100
26) 2,2-Dichloropropane	7.17	77	49438	50.516	ug/l	98
27) cis-1,2-Dichloroethene	7.17	96	46432	49.089	ug/l	96
28) Bromochloromethane	7.51	49	28321	50.917	ug/l	99
29) Tetrahydrofuran	7.53	42	35344	280.342	ug/l	97
30) Chloroform	7.68	83	79880	49.639	ug/l	98
31) Cyclohexane	7.95	56	64049	47.209	ug/l	97
32) 1,1,1-Trichloroethane	7.87	97	71034	50.337	ug/l	99
36) 1,1-Dichloropropene	8.08	75	61703	52.312	ug/l	98
37) Ethyl Acetate	7.25	43	24937	56.842	ug/l	98
38) Carbon Tetrachloride	8.07	117	67864	52.878	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW121618\
 Data File : VW007497.D
 Acq On : 13 Dec 2018 20:47
 Operator : SY/AP
 Sample : VSTDCCC050
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 12/14/2018 11:24:57 AM

Quant Time: Dec 14 04:34:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W121118S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 11 02:58:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	76748	53.735	ug/l	92
40) Benzene	8.32	78	166881	50.981	ug/l	99
41) Methacrylonitrile	7.48	41	14785	59.182	ug/l	98
42) 1,2-Dichloroethane	8.40	62	53241	51.778	ug/l	100
43) Isopropyl Acetate	8.43	43	49368	56.969	ug/l	99
44) Trichloroethene	9.09	130	48513	51.900	ug/l	93
45) 1,2-Dichloropropane	9.37	63	39791	52.530	ug/l	98
46) Dibromomethane	9.46	93	23096	53.690	ug/l	96
47) Bromodichloromethane	9.65	83	58456	51.807	ug/l	92
48) Methyl methacrylate	9.43	41	24159	54.283	ug/l	95
49) 1,4-Dioxane	9.45	88	7933	1136.562	ug/l	96
51) 4-Methyl-2-Pentanone	10.21	43	123190	300.861	ug/l	99
52) Toluene	10.39	92	110226	52.034	ug/l	99
53) t-1,3-Dichloropropene	10.60	75	60427	55.163	ug/l	97
54) cis-1,3-Dichloropropene	10.07	75	67553	53.345	ug/l	99
55) 1,1,2-Trichloroethane	10.79	97	34032	58.128	ug/l	97
56) Ethyl methacrylate	10.65	69	40879	58.091	ug/l	98
57) 1,3-Dichloropropane	10.93	76	53881	56.070	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.93	63	87277	268.948	ug/l	100
59) 2-Hexanone	10.97	43	88095	322.661	ug/l	98
60) Dibromochloromethane	11.13	129	41055	55.566	ug/l	95
61) 1,2-Dibromoethane	11.24	107	33014	57.061	ug/l	96
64) Tetrachloroethene	10.87	164	40805	47.695	ug/l	94
65) Chlorobenzene	11.66	112	126222	50.903	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.73	131	44476	50.927	ug/l	99
67) Ethyl Benzene	11.73	91	222564	52.205	ug/l	92
68) m/p-Xylenes	11.84	106	171365	103.396	ug/l	99
69) o-Xylene	12.17	106	81368	52.568	ug/l	98
70) Styrene	12.18	104	135469	54.185	ug/l	97
71) Bromoform	12.35	173	23381	52.305	ug/l #	98
73) Isopropylbenzene	12.47	105	229883	52.580	ug/l	99
74) N-amyl acetate	12.27	43	46363	58.349	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.72	83	37404	57.762	ug/l	95
76) 1,2,3-Trichloropropane	12.77	75	27990m	59.494	ug/l	
77) Bromobenzene	12.75	156	50946	52.569	ug/l	93
78) n-propylbenzene	12.80	91	267032	54.271	ug/l	99
79) 2-Chlorotoluene	12.90	91	154741	51.975	ug/l	97
80) 1,3,5-Trimethylbenzene	12.94	105	195720	53.277	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.51	75	12280	57.659	ug/l	92
82) 4-Chlorotoluene	12.99	91	163810	52.197	ug/l	98
83) tert-Butylbenzene	13.21	119	173643	53.644	ug/l	99
84) 1,2,4-Trimethylbenzene	13.26	105	196797	52.058	ug/l	98
85) sec-Butylbenzene	13.39	105	238878	54.059	ug/l	96
86) p-Isopropyltoluene	13.51	119	211707	53.330	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	99833	51.667	ug/l	98
88) 1,4-Dichlorobenzene	13.58	146	100507	51.740	ug/l	97
89) n-Butylbenzene	13.83	91	193971	52.707	ug/l	98
90) Hexachloroethane	14.10	117	37375	52.913	ug/l	98
91) 1,2-Dichlorobenzene	13.88	146	90921	52.537	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.49	75	7315	56.290	ug/l	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW121618\
Data File : VW007497.D
Acq On : 13 Dec 2018 20:47
Operator : SY/AP
Sample : VSTDCCC050
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

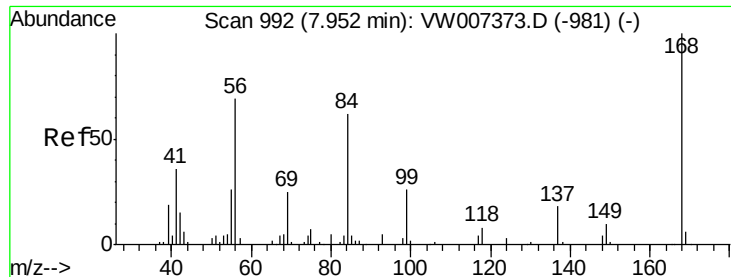
Manual Integrations
APPROVED

MMDadoda
12/14/2018 11:24:57 AM

Quant Time: Dec 14 04:34:45 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W121118S.M
Quant Title : SW846 8260
QLast Update : Tue Dec 11 02:58:16 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.14	180	61573	51.699	ug/l	96
94) Hexachlorobutadiene	15.24	225	32144	50.867	ug/l	97
95) Naphthalene	15.37	128	130241	57.163	ug/l	99
96) 1,2,3-Trichlorobenzene	15.56	180	54421	52.602	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW007497.D

Acq: 13 Dec 2018 20:47

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 78720

Ion Ratio Lower Upper

168 100

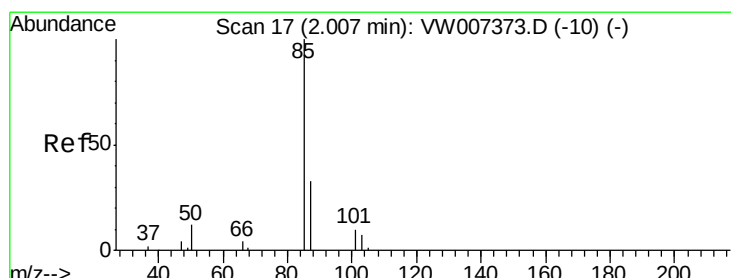
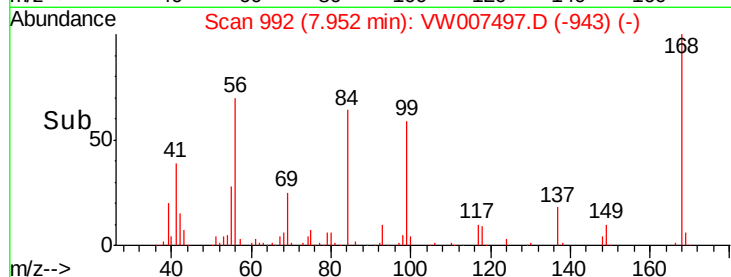
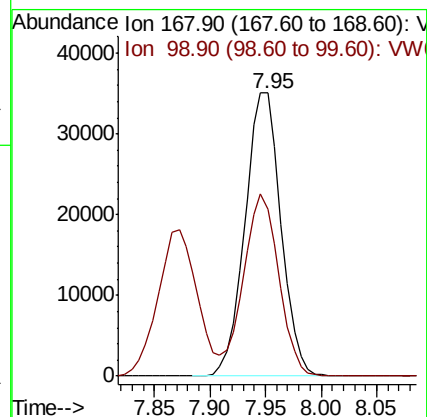
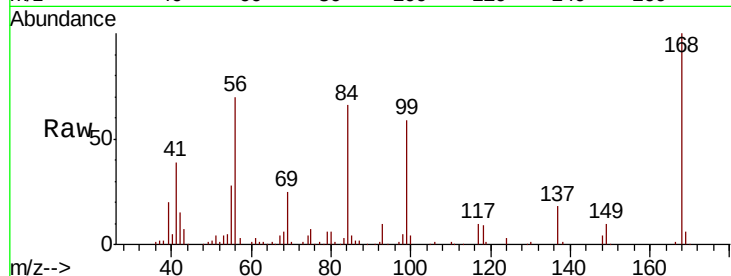
99 59.1 48.3 72.5

Manual Integrations

APPROVED

MMDadoda

12/14/2018 11:24:57 AM



#2

Dichlorodifluoromethane

Concen: 47.288 ug/l

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW007497.D

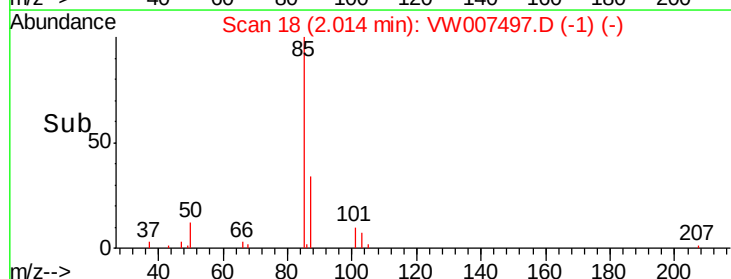
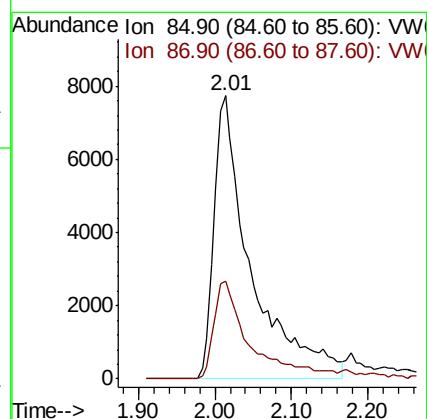
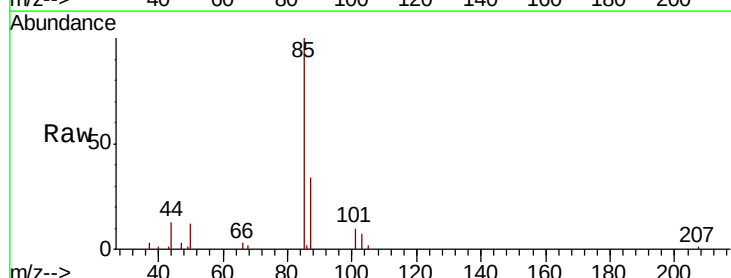
Acq: 13 Dec 2018 20:47

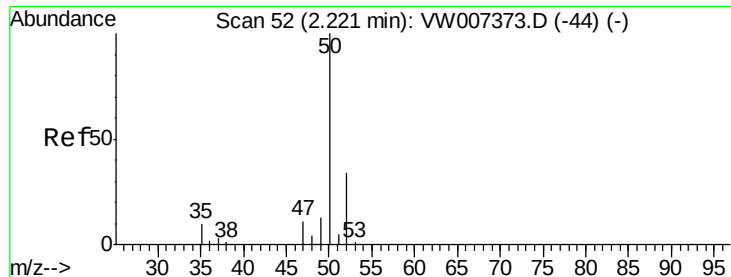
Tgt Ion: 85 Resp: 26013

Ion Ratio Lower Upper

85 100

87 34.5 16.6 49.7





#3

Chloromethane

Concen: 50.053 ug/l

RT: 2.22 min Scan# 52

Delta R.T. 0.00 min

Lab File: VW007497.D

Acq: 13 Dec 2018 20:47

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 23060

Ion Ratio Lower Upper

50 100

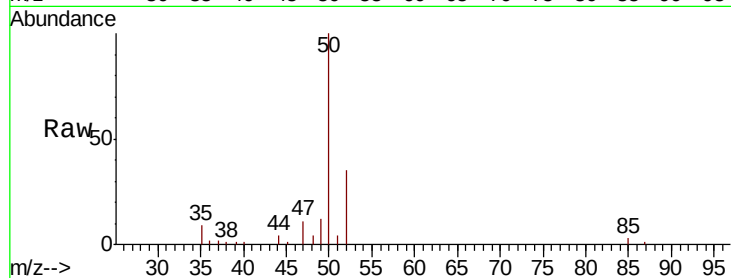
52 34.9 27.4 41.0

Manual Integrations

APPROVED

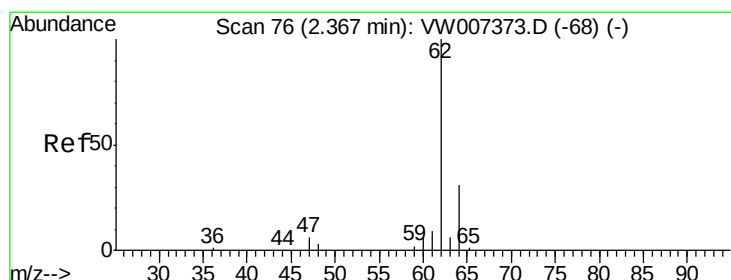
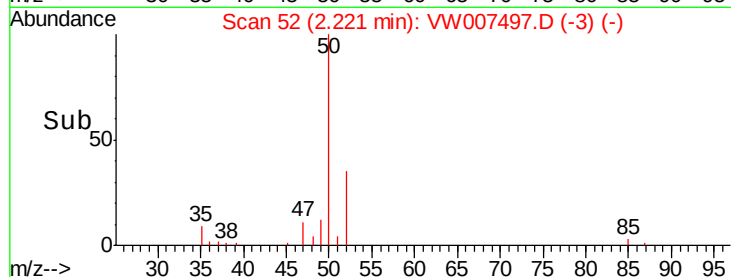
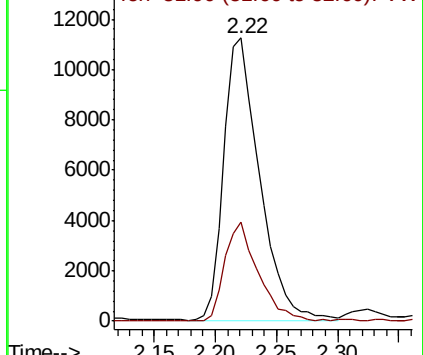
MMDadoda

12/14/2018 11:24:57 AM



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW



#4

Vinyl Chloride

Concen: 52.247 ug/l

RT: 2.37 min Scan# 77

Delta R.T. 0.01 min

Lab File: VW007497.D

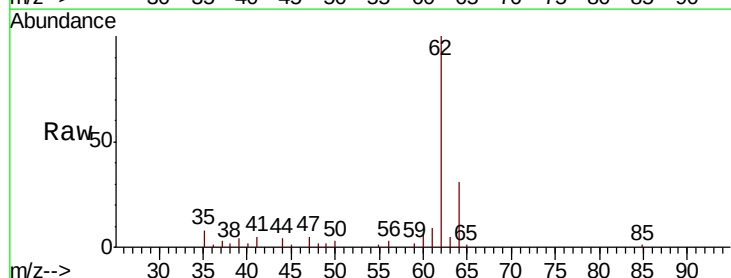
Acq: 13 Dec 2018 20:47

Tgt Ion: 62 Resp: 28248

Ion Ratio Lower Upper

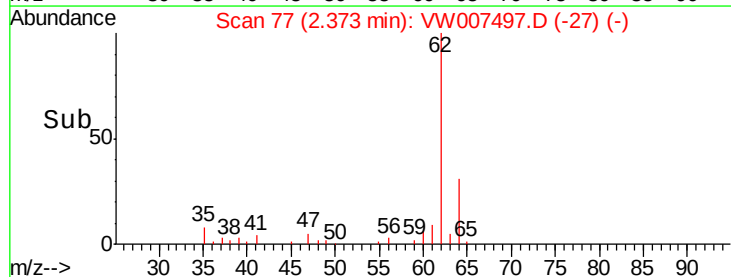
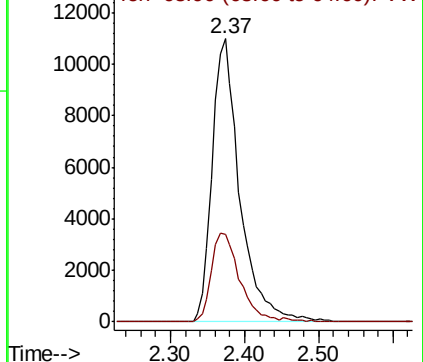
62 100

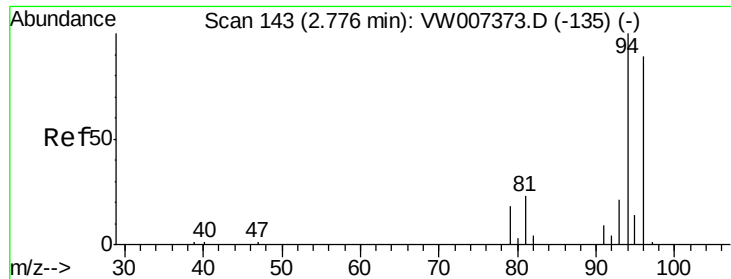
64 30.7 24.6 37.0



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW





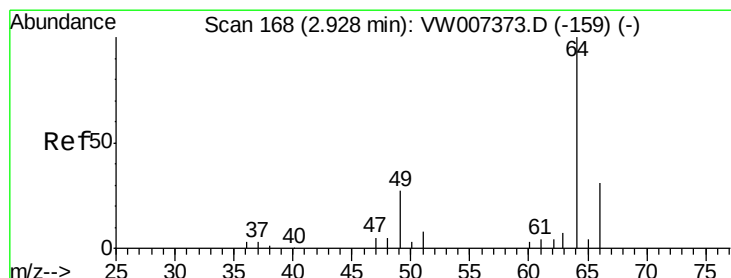
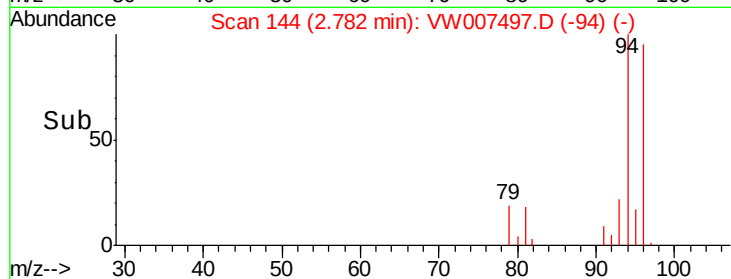
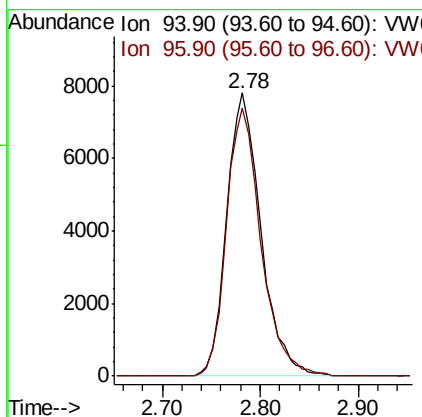
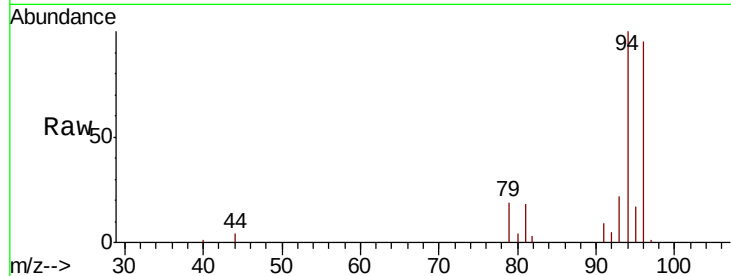
#5
Bromomethane
Concen: 52.307 ug/l
RT: 2.78 min Scan# 144
Delta R.T. 0.01 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion: 94 Resp: 19001
Ion Ratio Lower Upper
94 100
96 94.5 71.0 106.4

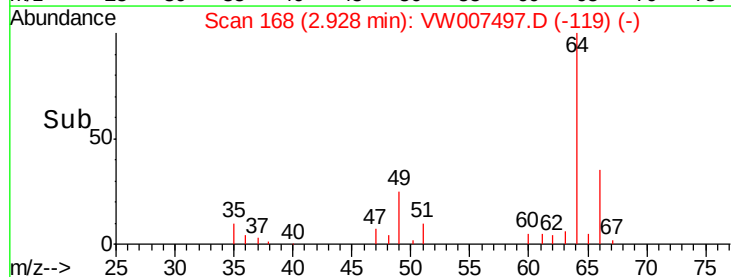
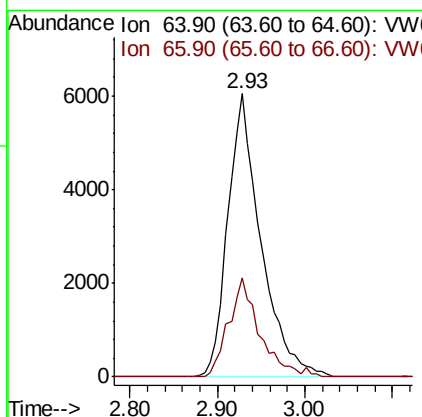
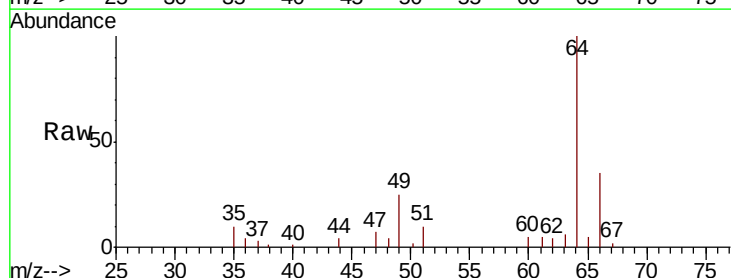
Manual Integrations
APPROVED

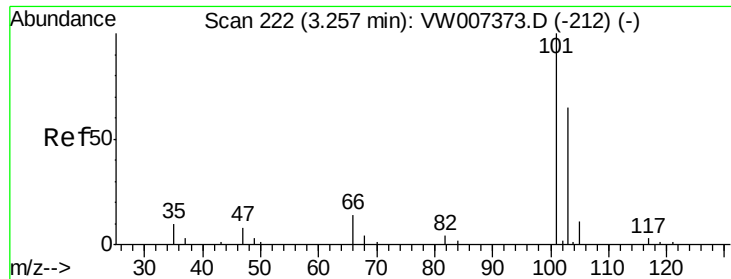
MMDadoda
12/14/2018 11:24:57 AM



#6
Chloroethane
Concen: 53.425 ug/l
RT: 2.93 min Scan# 168
Delta R.T. 0.00 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Tgt Ion: 64 Resp: 15900
Ion Ratio Lower Upper
64 100
66 34.8 24.6 37.0





#7

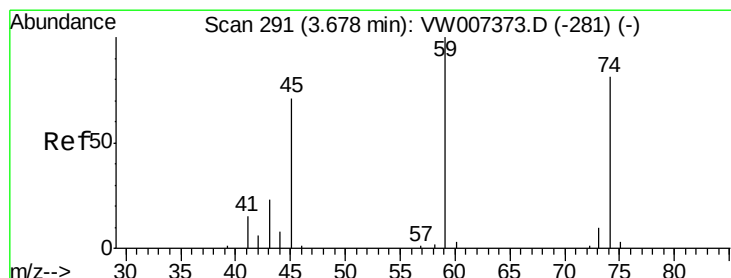
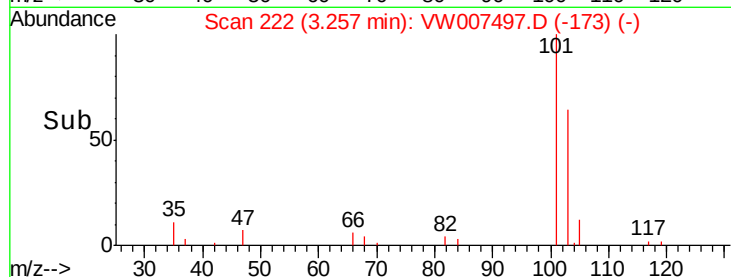
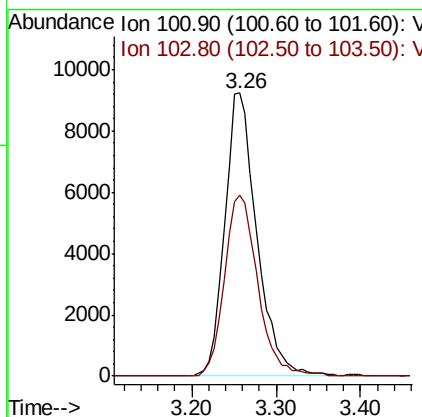
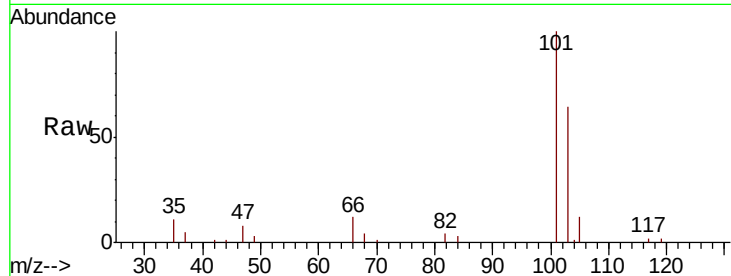
Trichlorofluoromethane
 Concen: 49.391 ug/l
 RT: 3.26 min Scan# 222
 Delta R.T. 0.00 min
 Lab File: VW007497.D
 Acq: 13 Dec 2018 20:47

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion:101 Resp: 24008
 Ion Ratio Lower Upper
 101 100
 103 63.7 51.7 77.5

Manual Integrations
 APPROVED

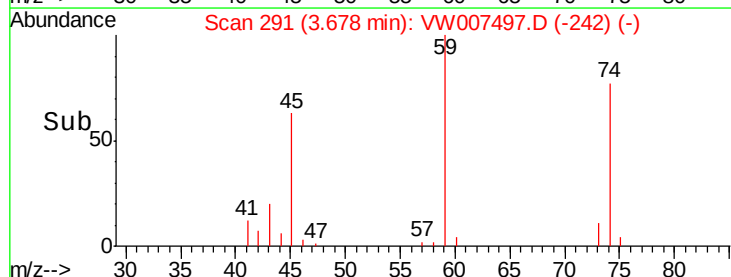
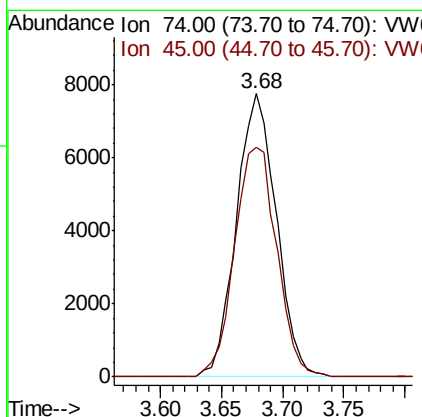
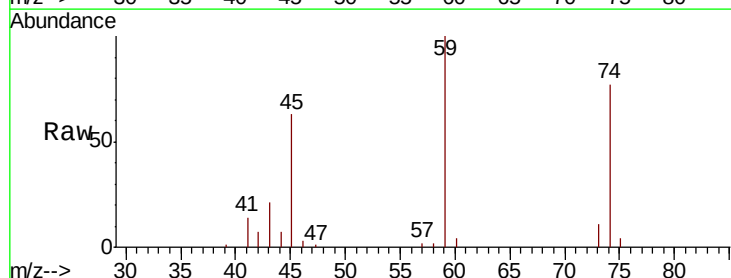
MMDadoda
 12/14/2018 11:24:57 AM

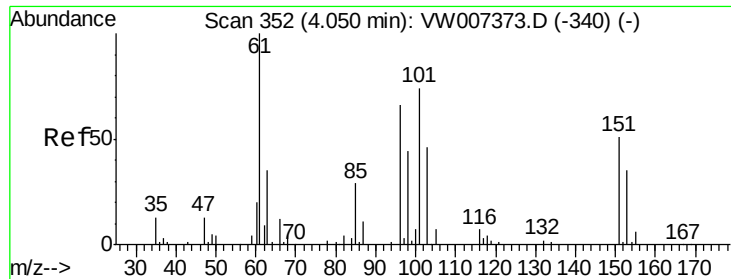


#8

Diethyl Ether
 Concen: 46.065 ug/l
 RT: 3.68 min Scan# 291
 Delta R.T. 0.00 min
 Lab File: VW007497.D
 Acq: 13 Dec 2018 20:47

Tgt Ion: 74 Resp: 17525
 Ion Ratio Lower Upper
 74 100
 45 86.0 43.0 129.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 51.235 ug/l

RT: 4.06 min Scan# 353

Delta R.T. 0.01 min

Lab File: VW007497.D

Acq: 13 Dec 2018 20:47

Instrument :

MSVOA_W

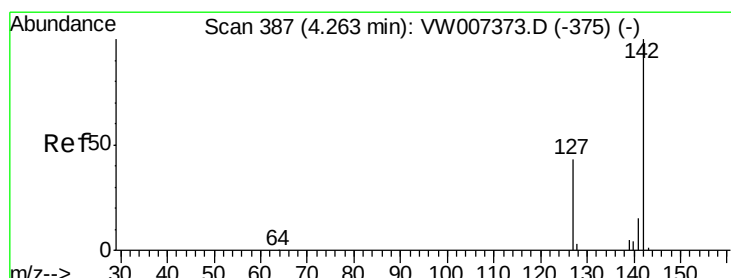
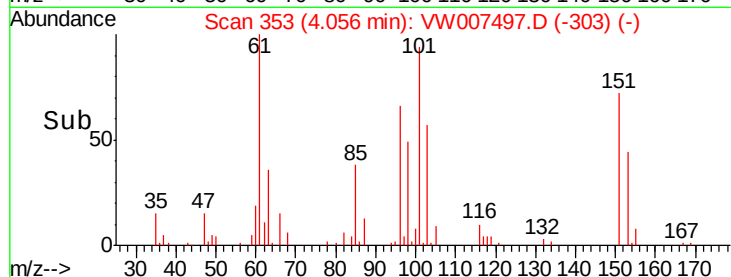
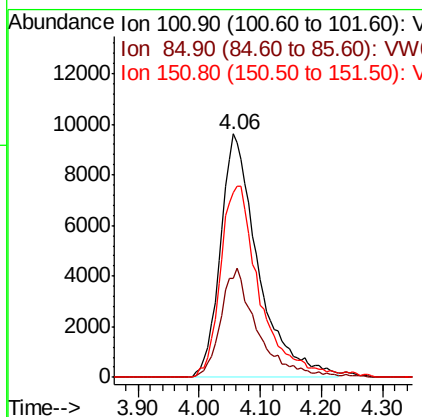
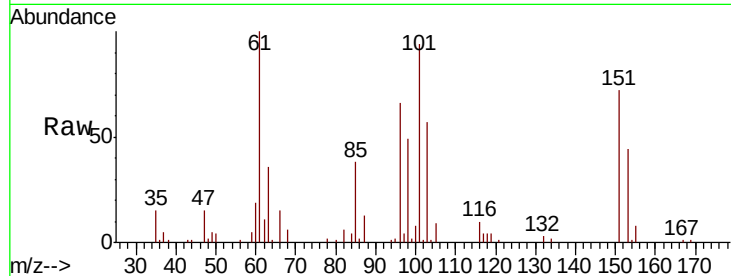
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	41093
Ion Ratio	Lower	Upper	
101	100		
85	42.3	33.9	50.9
151	81.6	63.7	95.5

Manual Integrations
APPROVED

MMDadoda
12/14/2018 11:24:57 AM



#10

Methyl Iodide

Concen: 49.569 ug/l

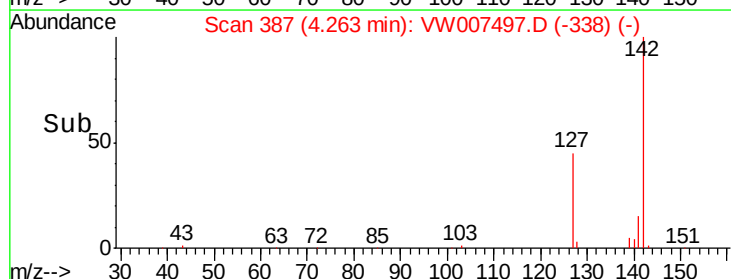
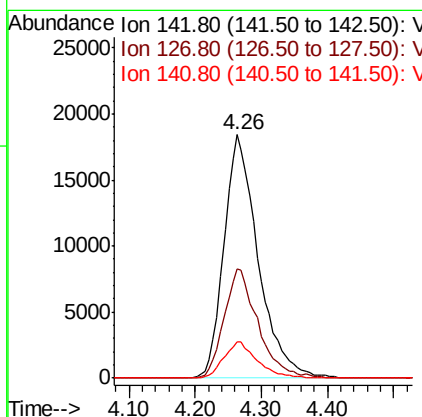
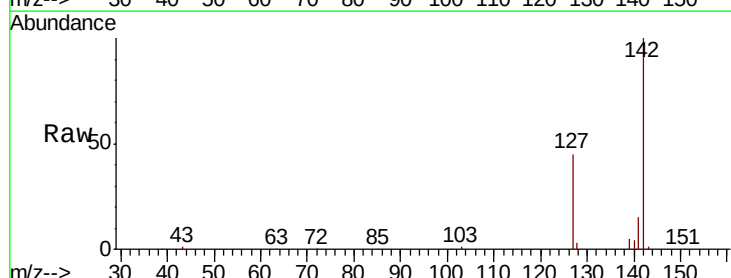
RT: 4.26 min Scan# 387

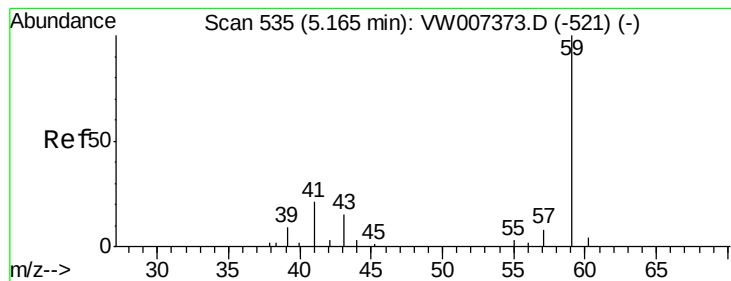
Delta R.T. 0.00 min

Lab File: VW007497.D

Acq: 13 Dec 2018 20:47

Tgt Ion:	142	Resp:	65845
Ion Ratio	Lower	Upper	
142	100		
127	44.5	35.8	53.6
141	14.5	11.1	16.7





#11

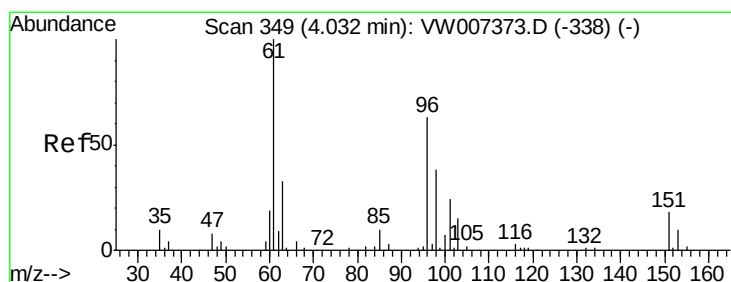
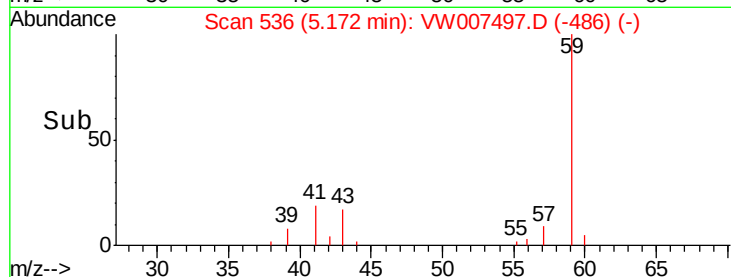
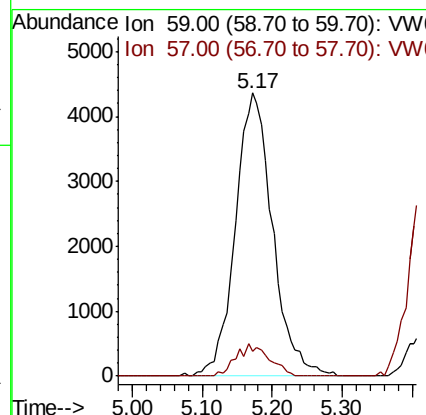
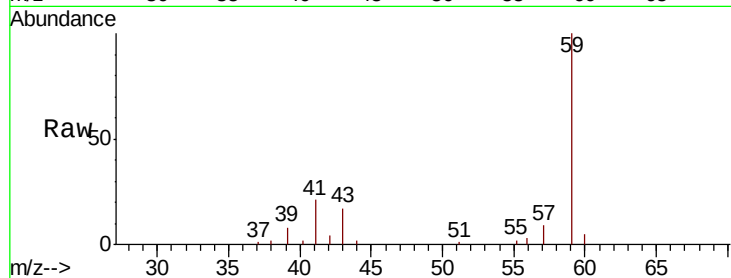
Tert butyl alcohol
 Concen: 268.141 ug/l
 RT: 5.17 min Scan# 536
 Delta R.T. 0.01 min
 Lab File: VW007497.D
 Acq: 13 Dec 2018 20:47

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.0	7.6	11.4

Manual Integrations
 APPROVED

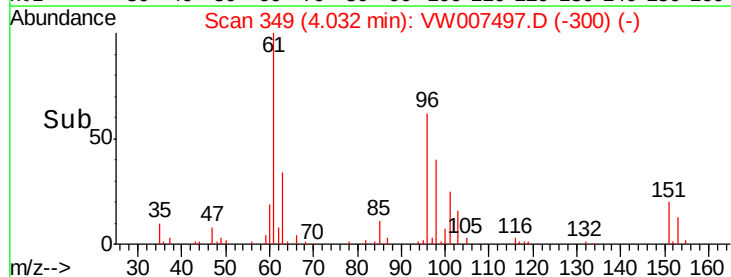
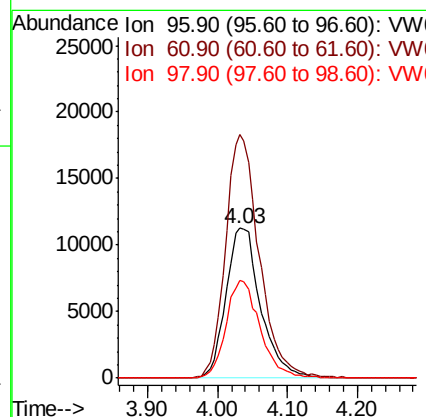
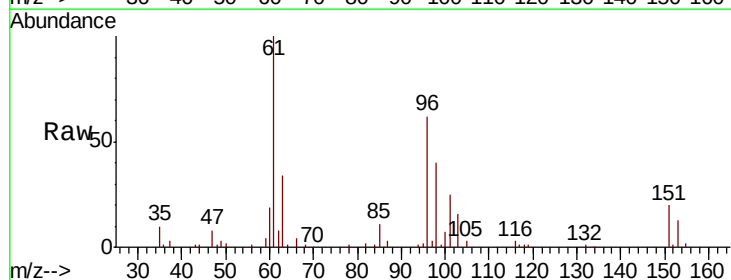
MMDadoda
 12/14/2018 11:24:57 AM

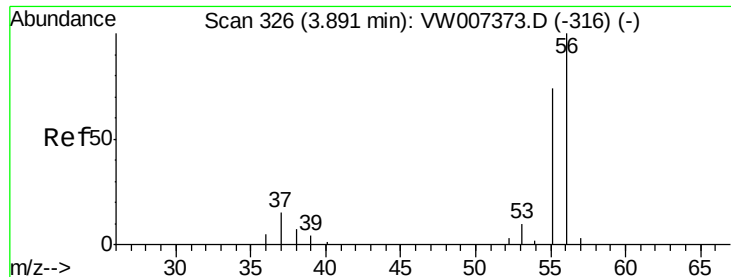


#12

1,1-Dichloroethene
 Concen: 50.170 ug/l
 RT: 4.03 min Scan# 349
 Delta R.T. 0.00 min
 Lab File: VW007497.D
 Acq: 13 Dec 2018 20:47

Tgt Ion	Ratio	Lower	Upper
96	100		
61	162.5	126.2	189.2
98	65.3	48.3	72.5





#13

Acrolein

Concen: 283.057 ug/l

RT: 3.89 min Scan# 325

Delta R.T. -0.01 min

Lab File: VW007497.D

Acq: 13 Dec 2018 20:47

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 11234

Ion Ratio Lower Upper

56 100

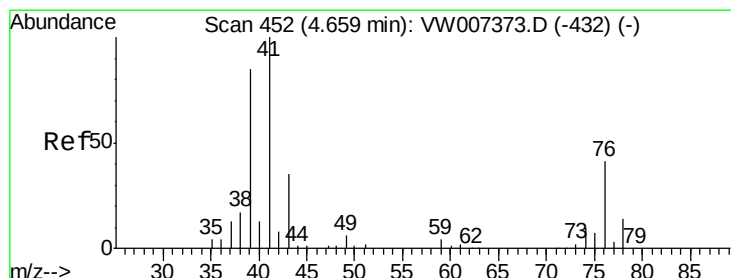
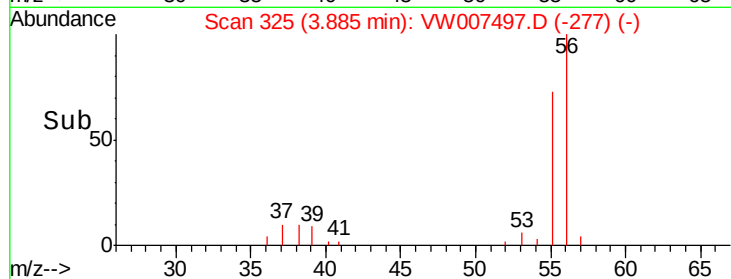
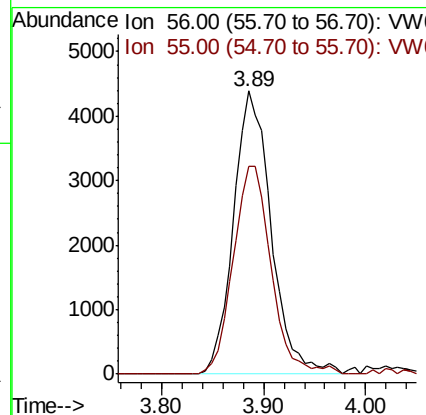
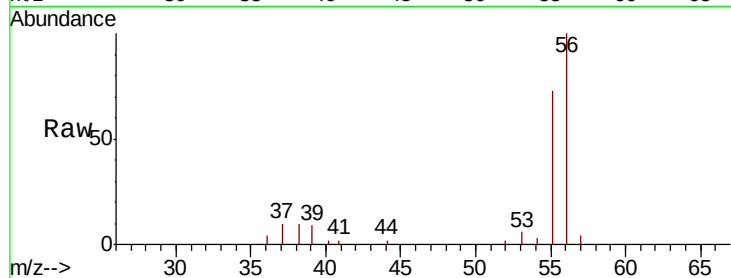
55 74.1 57.4 86.2

Manual Integrations

APPROVED

MMDadoda

12/14/2018 11:24:57 AM



#14

Allyl chloride

Concen: 49.959 ug/l

RT: 4.67 min Scan# 453

Delta R.T. 0.01 min

Lab File: VW007497.D

Acq: 13 Dec 2018 20:47

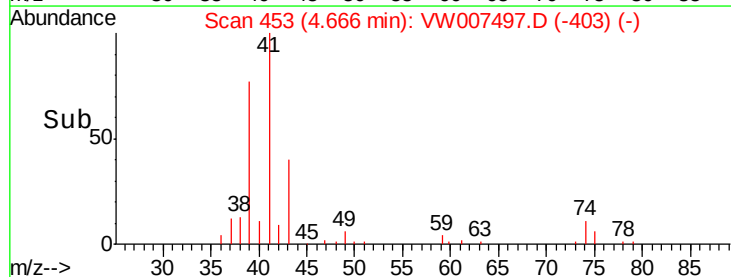
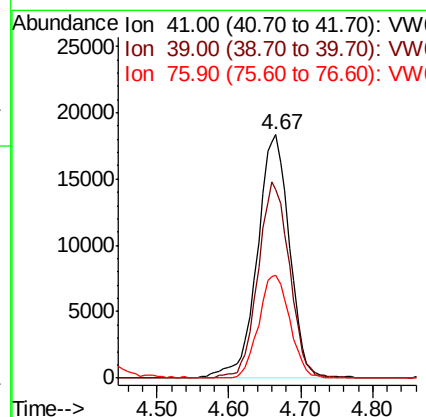
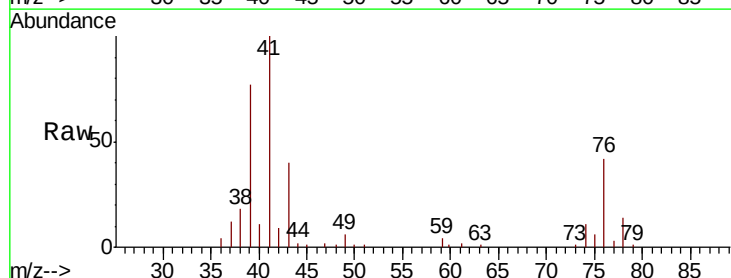
Tgt Ion: 41 Resp: 56867

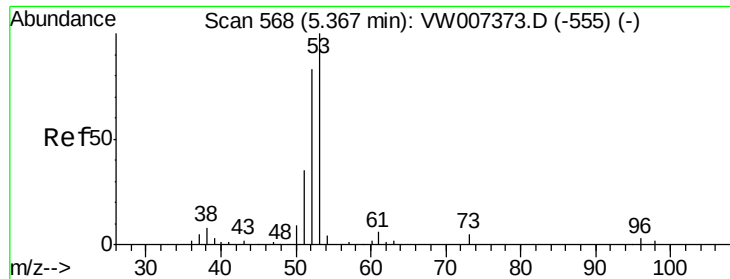
Ion Ratio Lower Upper

41 100

39 78.7 63.4 95.2

76 40.8 32.1 48.1





#15

Acrylonitrile

Concen: 271.214 ug/l

RT: 5.37 min Scan# 568

Delta R.T. 0.00 min

Lab File: VW007497.D

Acq: 13 Dec 2018 20:47

Instrument :

MSVOA_W

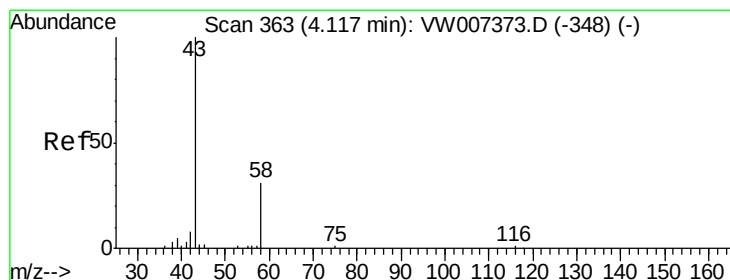
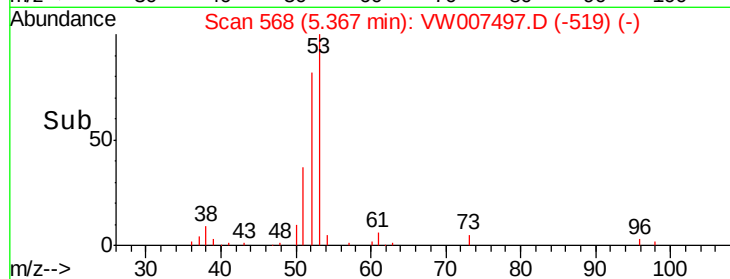
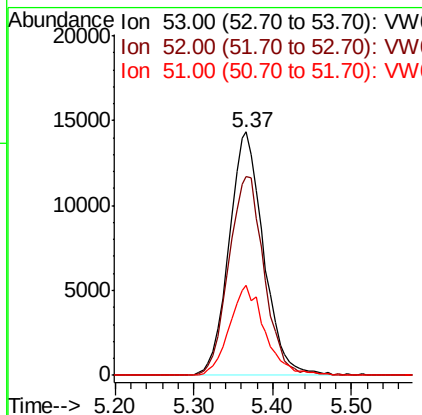
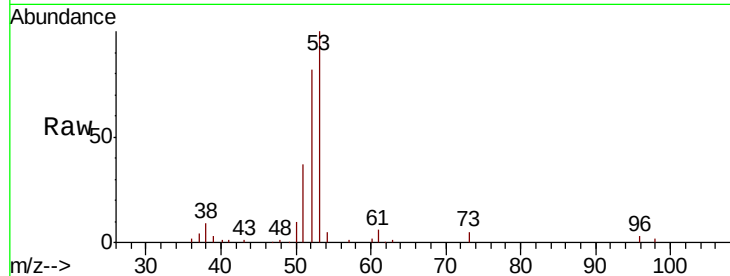
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	43497
Ion	Ratio	Lower	Upper
53	100		
52	84.3	67.4	101.2
51	37.9	30.2	45.2

Manual Integrations
APPROVED

MMDadoda
12/14/2018 11:24:57 AM



#16

Acetone

Concen: 271.433 ug/l

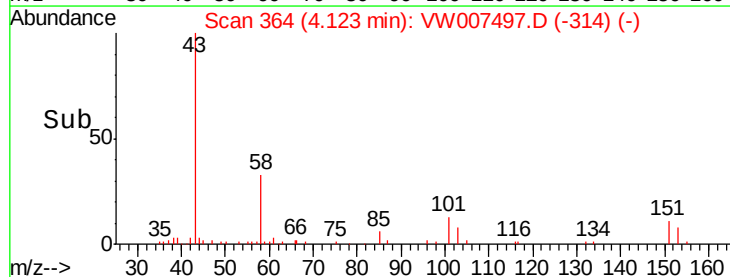
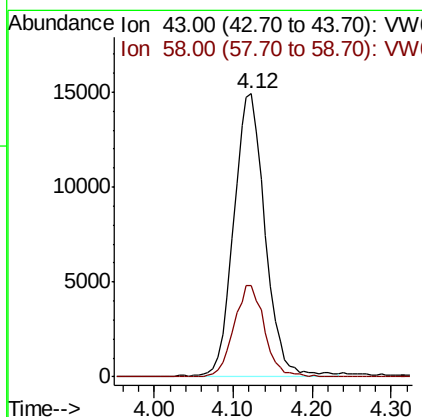
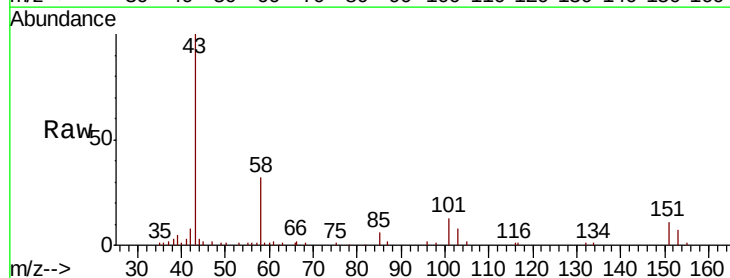
RT: 4.12 min Scan# 364

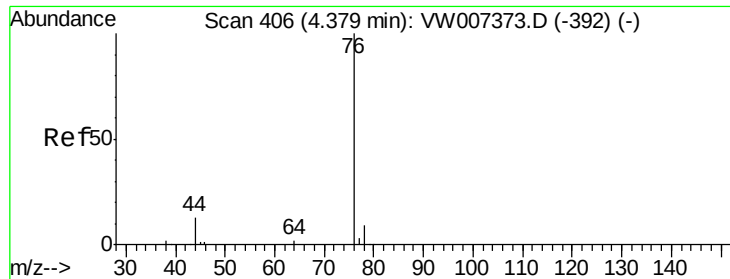
Delta R.T. 0.01 min

Lab File: VW007497.D

Acq: 13 Dec 2018 20:47

Tgt Ion:	43	Resp:	41406
Ion	Ratio	Lower	Upper
43	100		
58	32.2	24.9	37.3





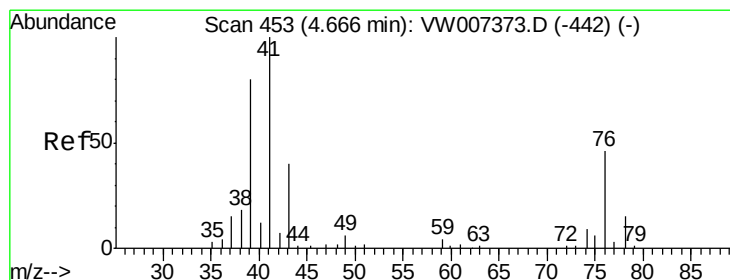
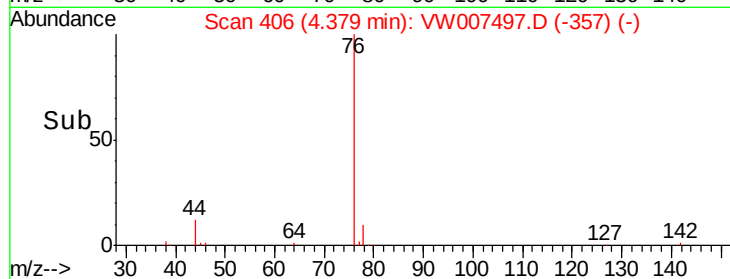
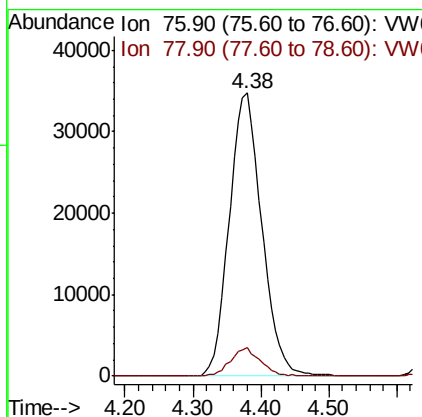
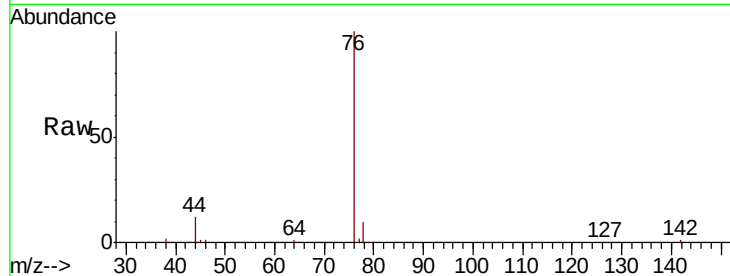
#17
Carbon Disulfide
Concen: 49.272 ug/l
RT: 4.38 min Scan# 406
Delta R.T. 0.00 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	10.3	7.1	10.7

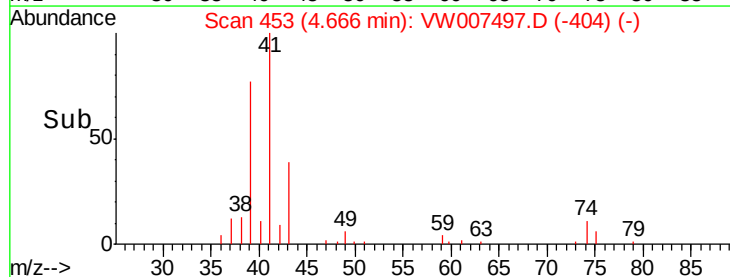
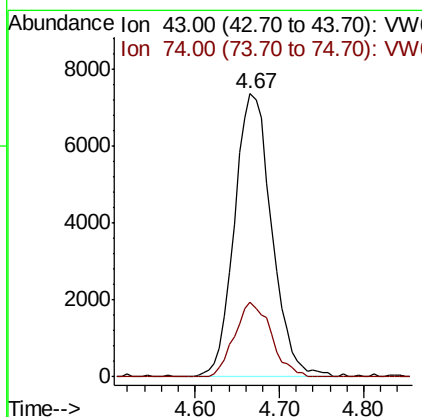
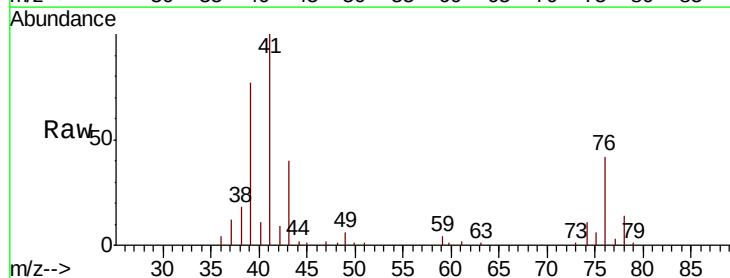
Manual Integrations
APPROVED

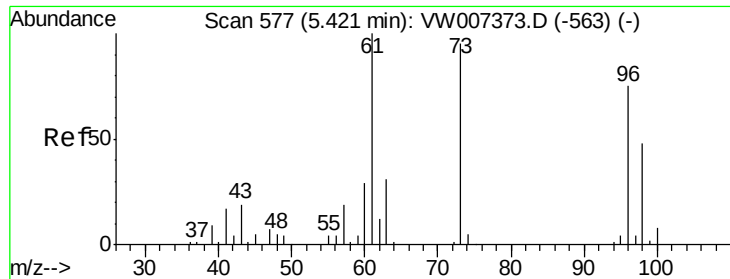
MMDadoda
12/14/2018 11:24:57 AM



#18
Methyl Acetate
Concen: 53.209 ug/l
RT: 4.67 min Scan# 453
Delta R.T. 0.00 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.9	21.1	31.7





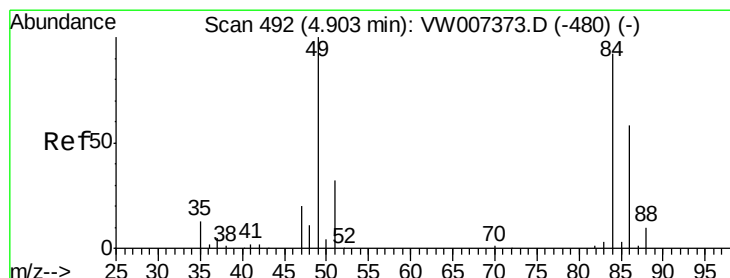
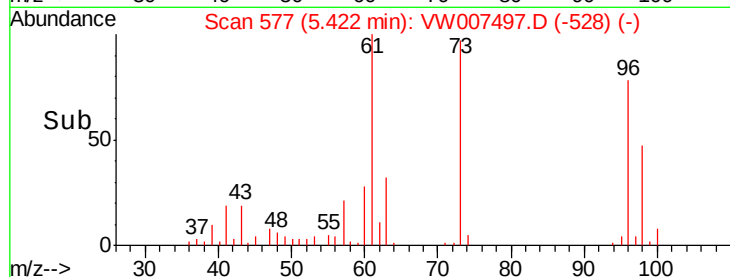
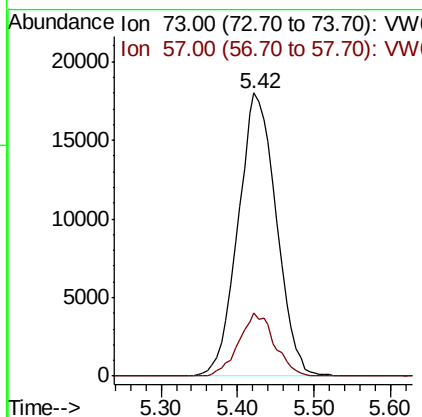
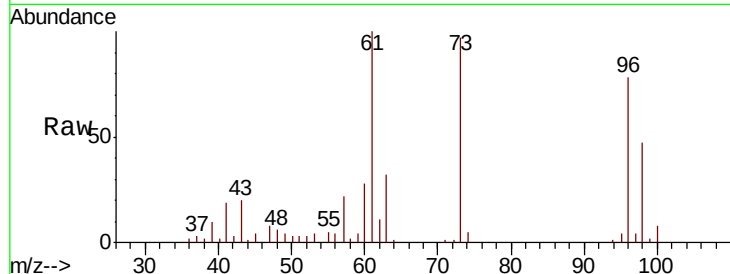
#19
Methyl tert-butyl Ether
Concen: 53.633 ug/l
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 62479
Ion Ratio Lower Upper
73 100
57 22.3 16.4 24.6

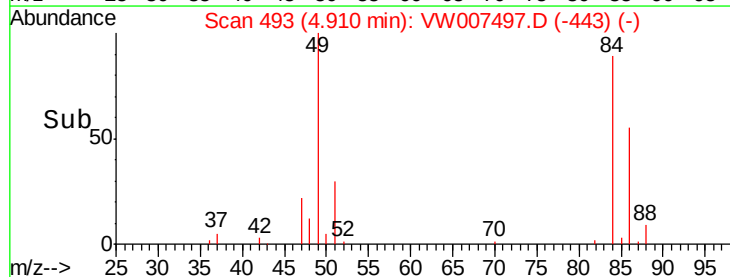
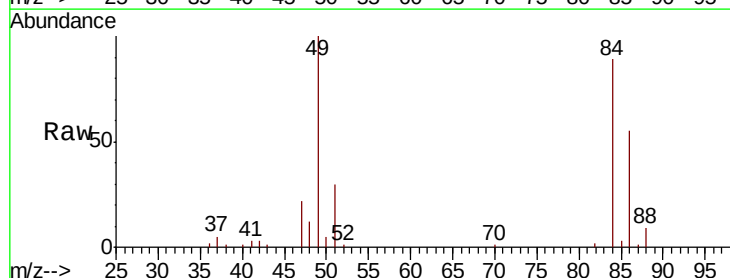
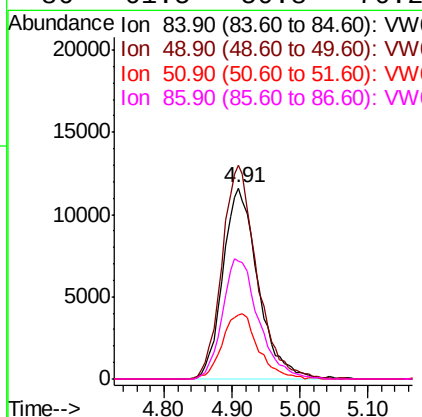
Manual Integrations
APPROVED

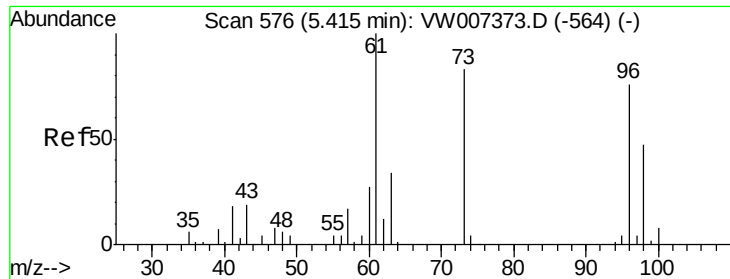
MMDadoda
12/14/2018 11:24:57 AM



#20
Methylene Chloride
Concen: 50.158 ug/l
RT: 4.91 min Scan# 493
Delta R.T. 0.01 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Tgt Ion: 84 Resp: 41832
Ion Ratio Lower Upper
84 100
49 111.8 87.1 130.7
51 33.4 28.2 42.2
86 61.5 50.8 76.2





#21

trans-1,2-Dichloroethene

Concen: 49.789 ug/l

RT: 5.42 min Scan# 577

Delta R.T. 0.01 min

Lab File: VW007497.D

Acq: 13 Dec 2018 20:47

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 43010

Ion Ratio Lower Upper

96 100

61 128.2 105.0 157.6

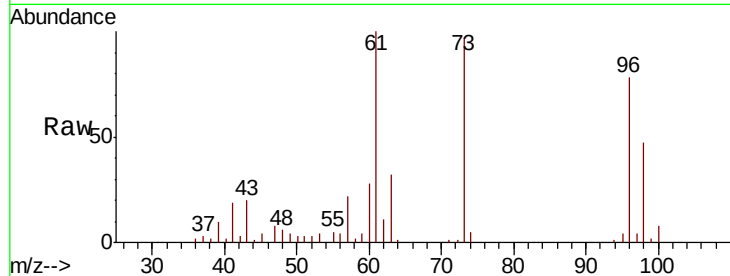
98 60.3 49.7 74.5

Manual Integrations

APPROVED

MMDadoda

12/14/2018 11:24:57 AM

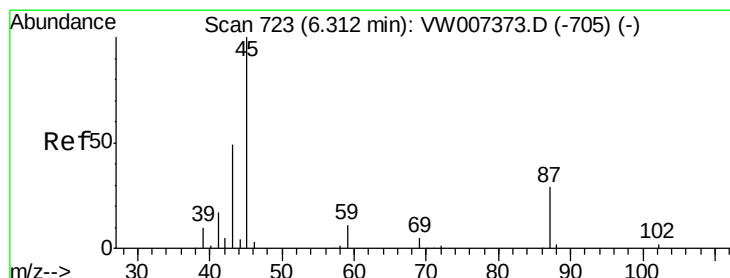
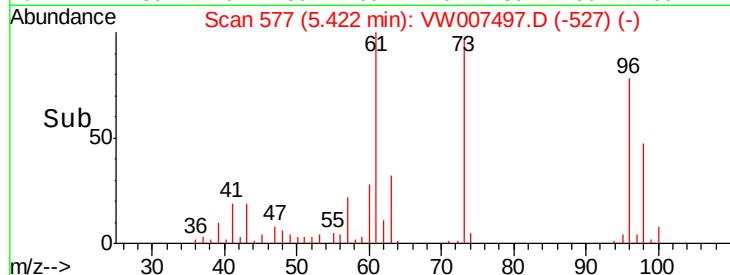
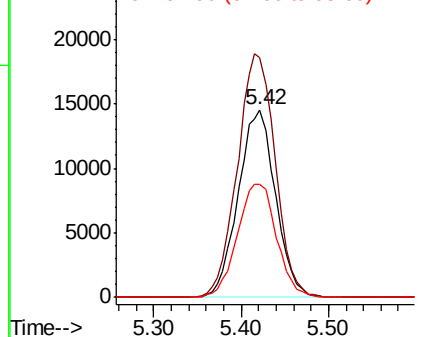


Abundance

Ion 95.90 (95.60 to 96.60): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 97.90 (97.60 to 98.60): VW



#22

Diisopropyl ether

Concen: 50.822 ug/l

RT: 6.31 min Scan# 723

Delta R.T. 0.00 min

Lab File: VW007497.D

Acq: 13 Dec 2018 20:47

Tgt Ion: 45 Resp: 111195

Ion Ratio Lower Upper

45 100

43 54.5 41.6 62.4

87 31.8 24.3 36.5

59 12.3 9.4 14.0

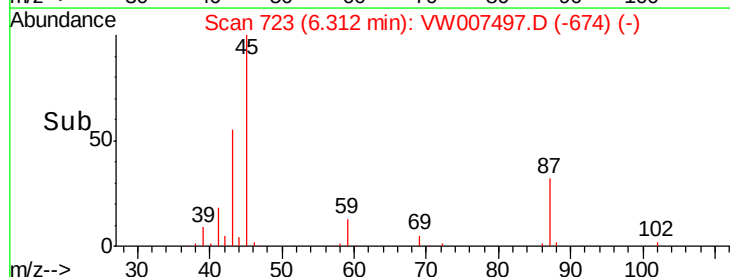
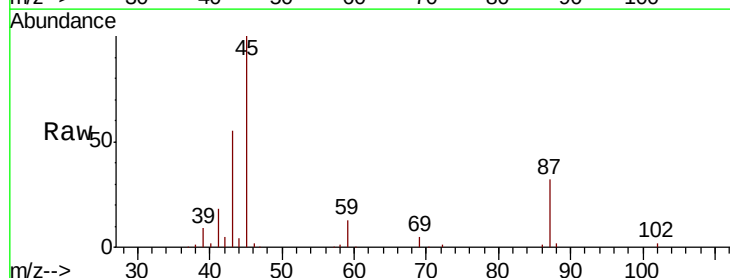
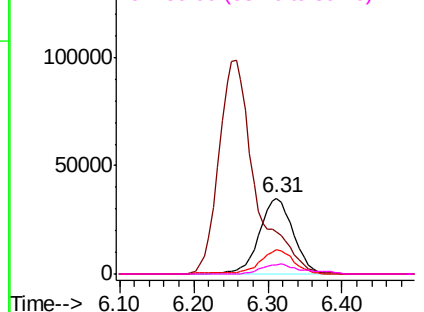
Abundance

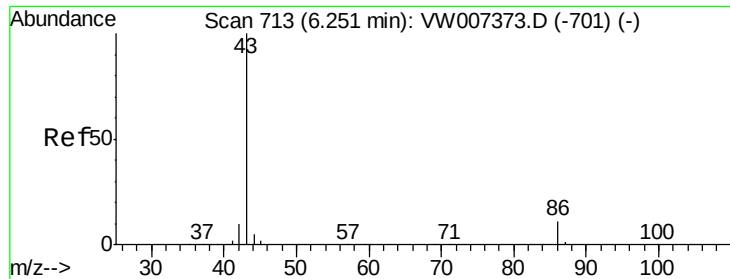
Ion 45.00 (44.70 to 45.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 87.00 (86.70 to 87.70): VW

Ion 59.00 (58.70 to 59.70): VW





#23

Vinyl Acetate

Concen: 274.276 ug/l

RT: 6.26 min Scan# 714

Delta R.T. 0.01 min

Lab File: VW007497.D

Acq: 13 Dec 2018 20:47

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 335652

Ion Ratio Lower Upper

43 100

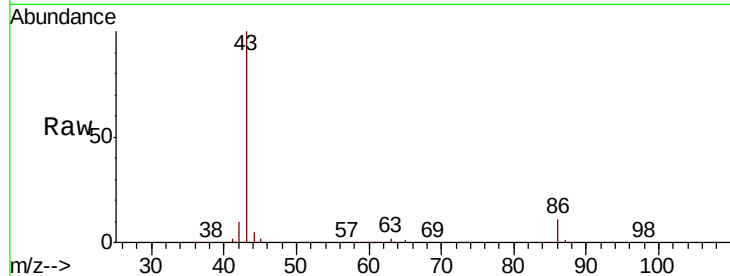
86 11.5 8.6 12.8

Manual Integrations

APPROVED

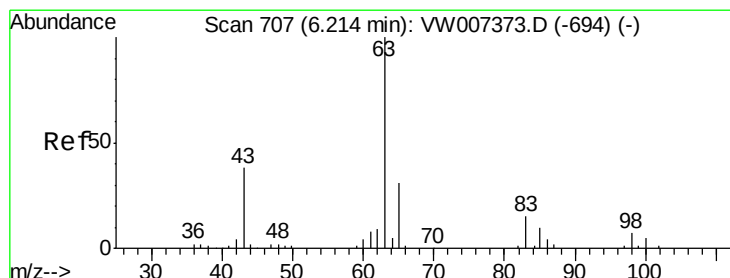
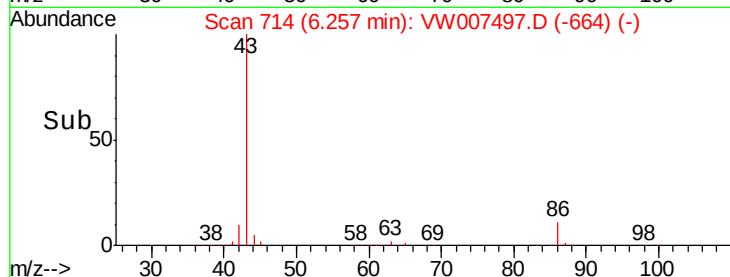
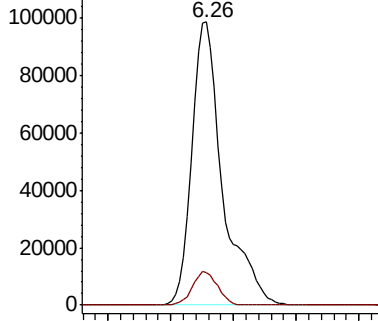
MMDadoda

12/14/2018 11:24:57 AM



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW



#24

1,1-Dichloroethane

Concen: 49.140 ug/l

RT: 6.21 min Scan# 707

Delta R.T. 0.00 min

Lab File: VW007497.D

Acq: 13 Dec 2018 20:47

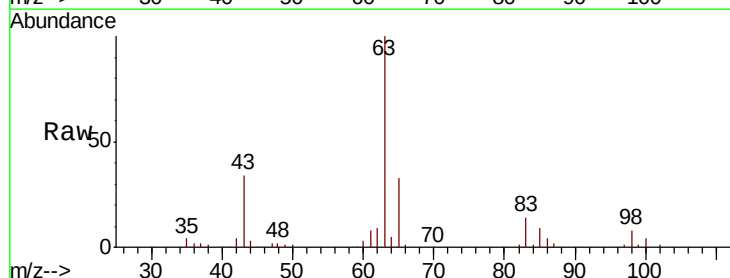
Tgt Ion: 63 Resp: 72664

Ion Ratio Lower Upper

63 100

98 7.6 3.5 10.4

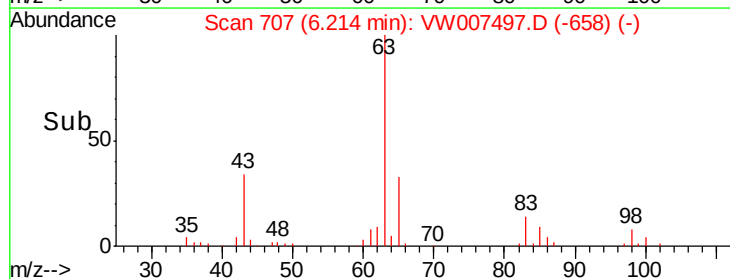
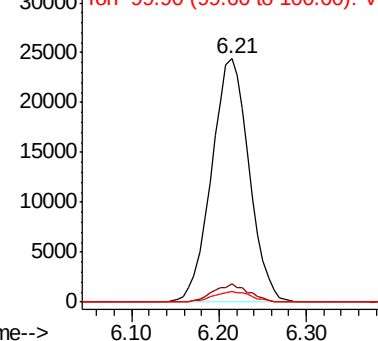
100 4.3 2.5 7.5

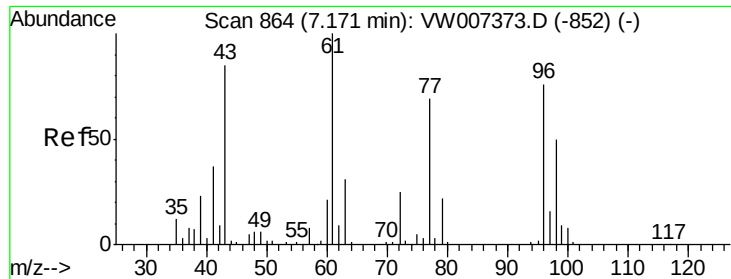


Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 97.90 (97.60 to 98.60): VW

Ion 99.90 (99.60 to 100.60): VW





#25

2-Butanone

Concen: 287.815 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW007497.D

Acq: 13 Dec 2018 20:47

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 57318

Ion Ratio Lower Upper

43 100

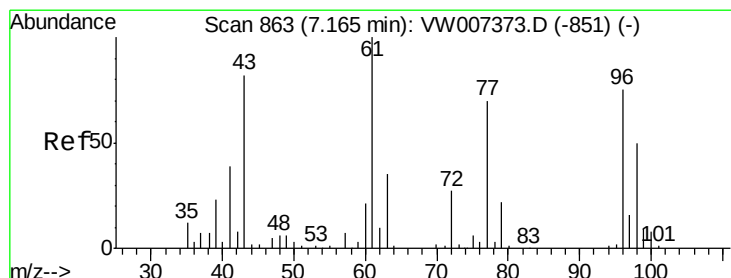
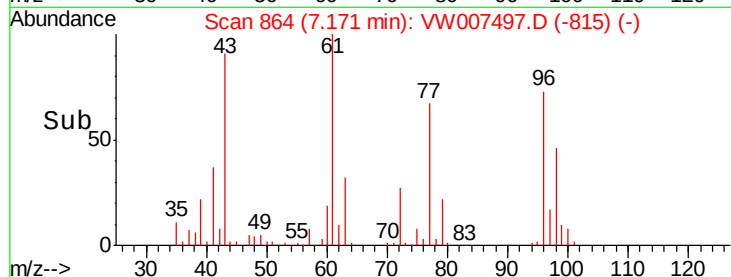
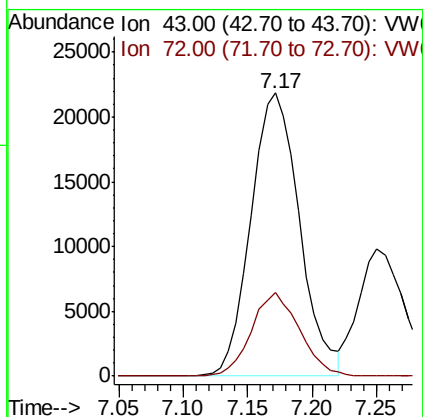
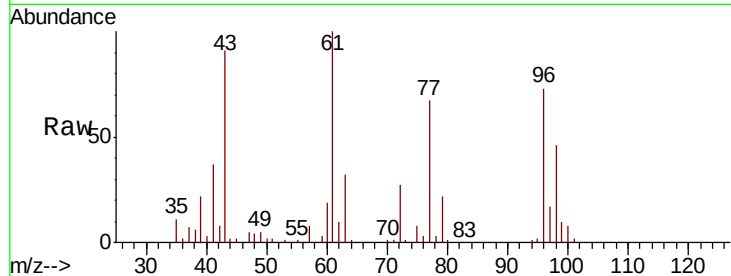
72 29.4 23.4 35.2

Manual Integrations

APPROVED

MMDadoda

12/14/2018 11:24:57 AM



#26

2,2-Dichloropropane

Concen: 50.516 ug/l

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW007497.D

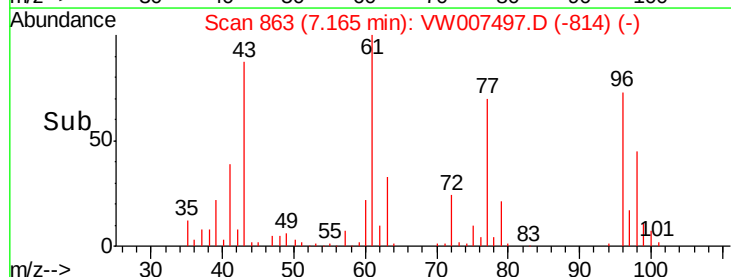
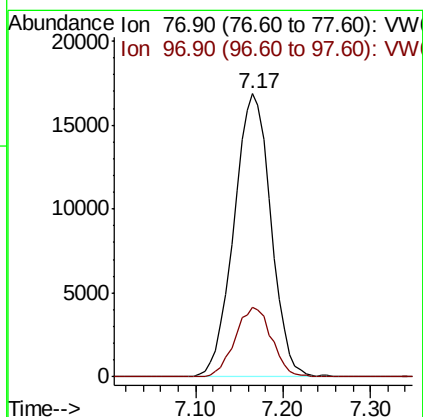
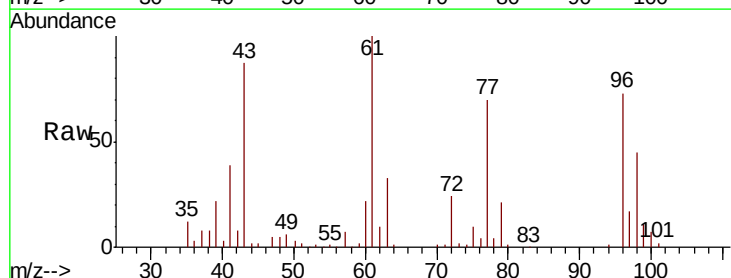
Acq: 13 Dec 2018 20:47

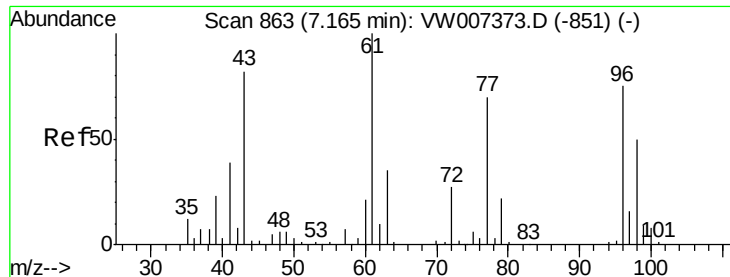
Tgt Ion: 77 Resp: 49438

Ion Ratio Lower Upper

77 100

97 24.2 11.6 34.8





#27

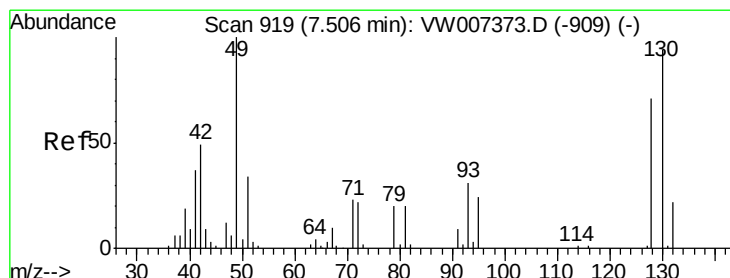
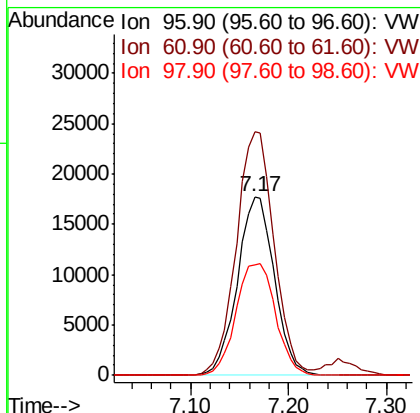
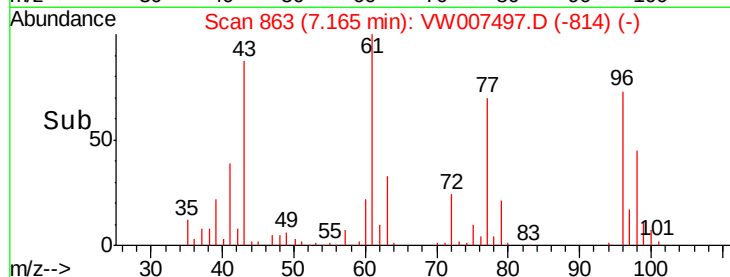
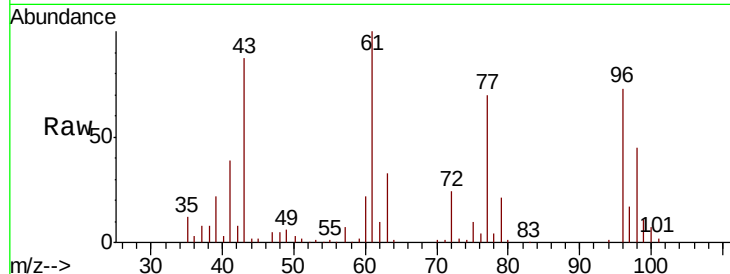
cis-1,2-Dichloroethene
Concen: 49.089 ug/l
RT: 7.17 min Scan# 863
Delta R.T. 0.00 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	139.2	0.0	268.4
98	66.9	0.0	127.8

Manual Integrations
APPROVED

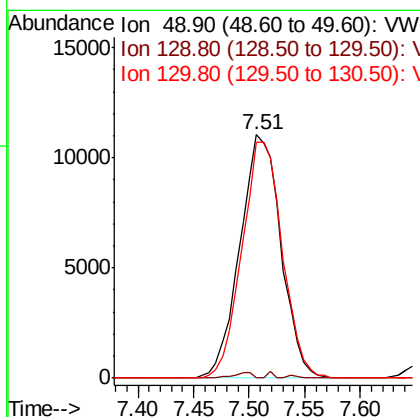
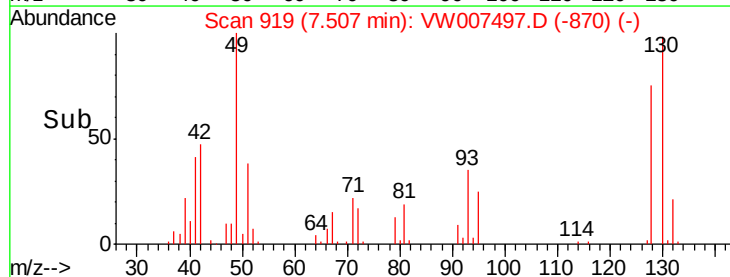
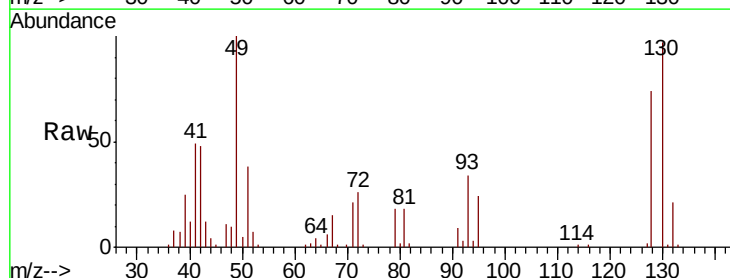
MMDadoda
12/14/2018 11:24:57 AM

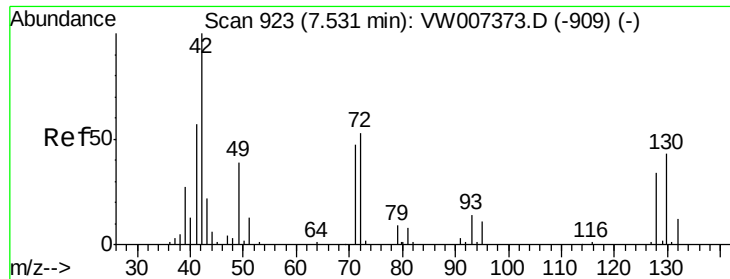


#28

Bromochloromethane
Concen: 50.917 ug/l
RT: 7.51 min Scan# 919
Delta R.T. 0.00 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.4	0.0	2.6
130	95.5	75.9	113.9





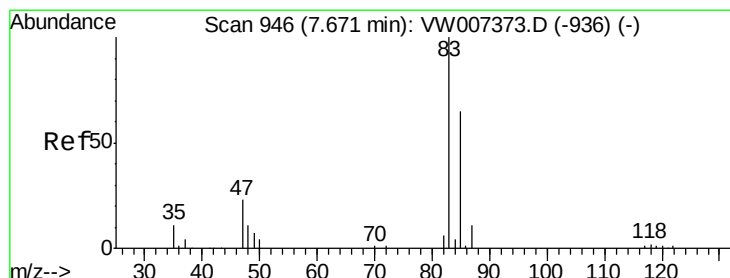
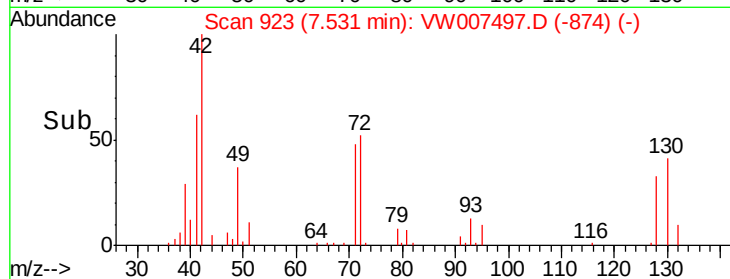
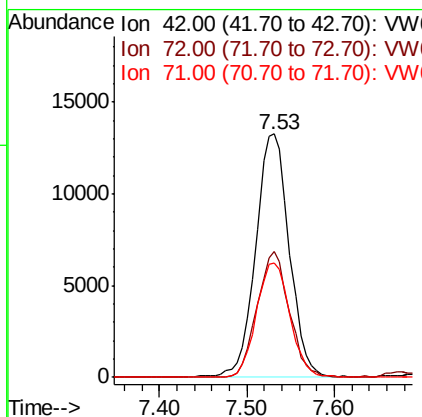
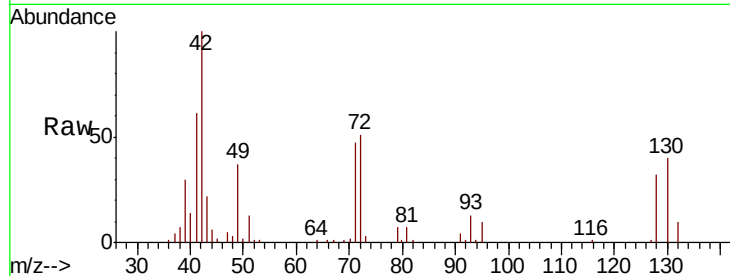
#29
Tetrahydrofuran
Concen: 280.342 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.00 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	49.4	38.2	57.4
71	46.8	35.5	53.3

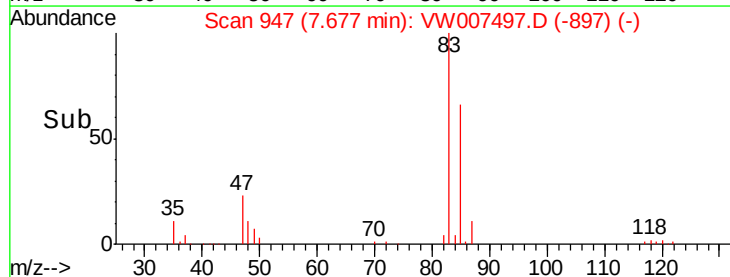
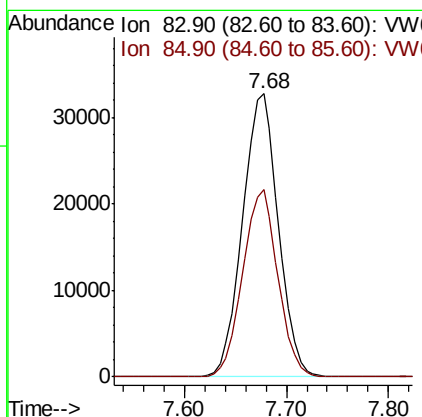
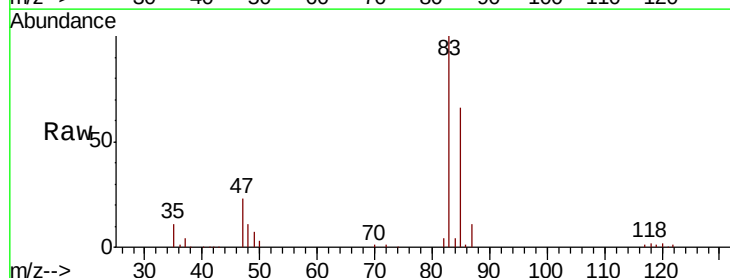
Manual Integrations
APPROVED

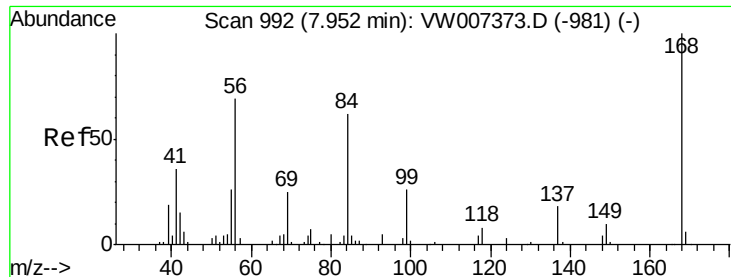
MMDadoda
12/14/2018 11:24:57 AM



#30
Chloroform
Concen: 49.639 ug/l
RT: 7.68 min Scan# 947
Delta R.T. 0.01 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.1	51.8	77.8





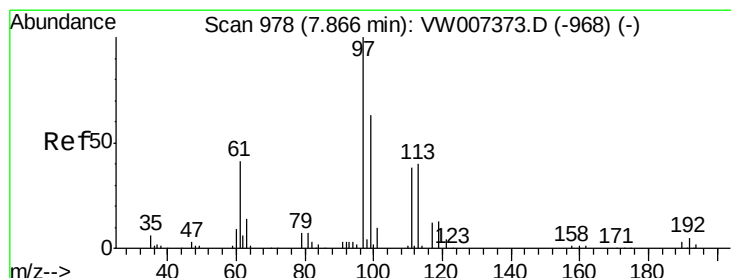
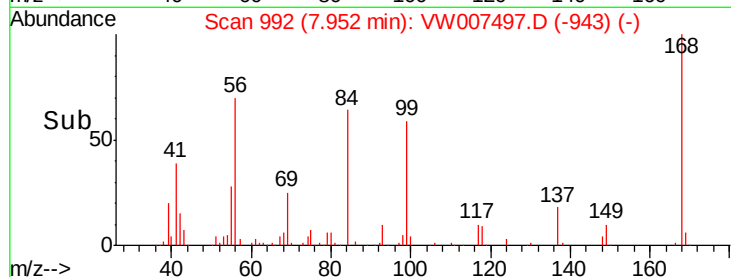
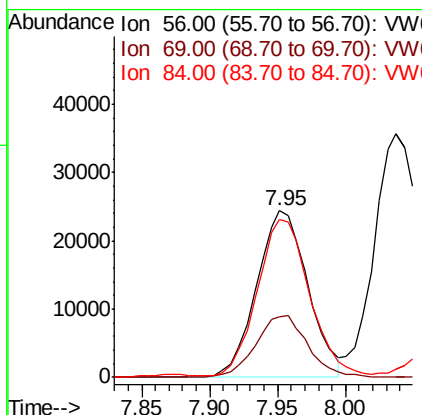
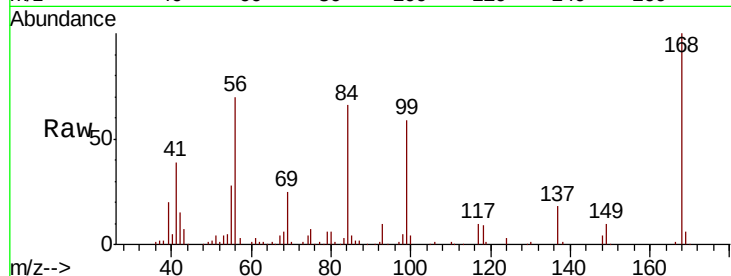
#31
Cyclohexane
Concen: 47.209 ug/l
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	36.3	28.9	43.3
84	93.4	71.8	107.6

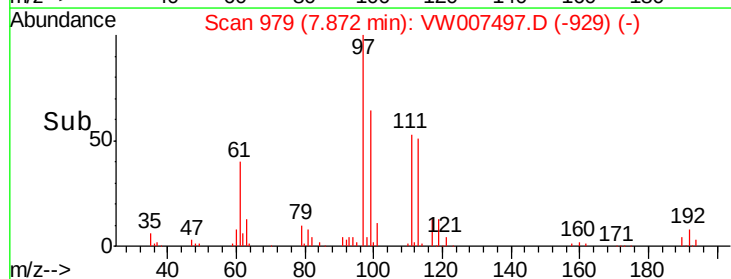
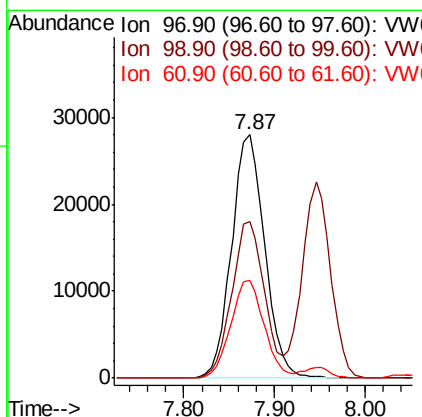
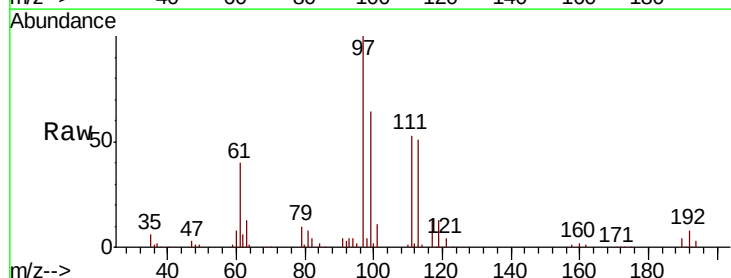
Manual Integrations
APPROVED

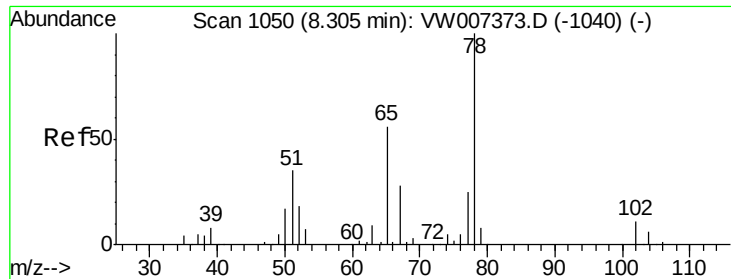
MMDadoda
12/14/2018 11:24:57 AM



#32
1,1,1-Trichloroethane
Concen: 50.337 ug/l
RT: 7.87 min Scan# 979
Delta R.T. 0.01 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.4	51.1	76.7
61	40.5	33.2	49.8





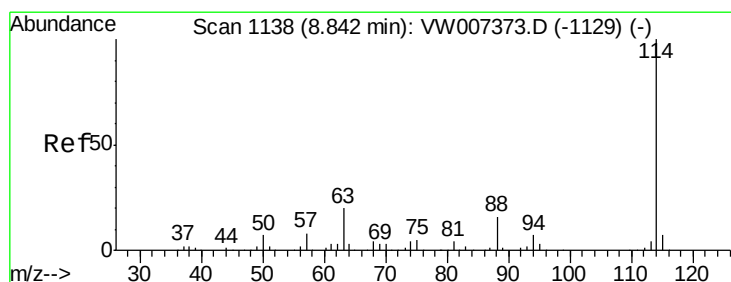
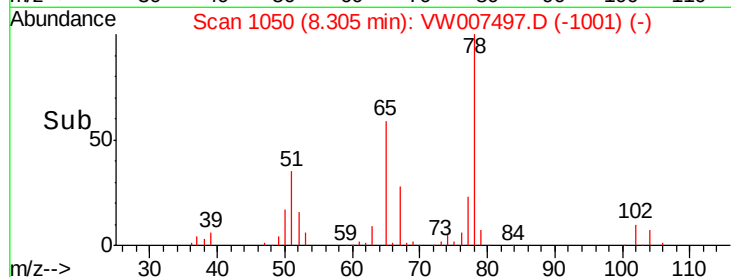
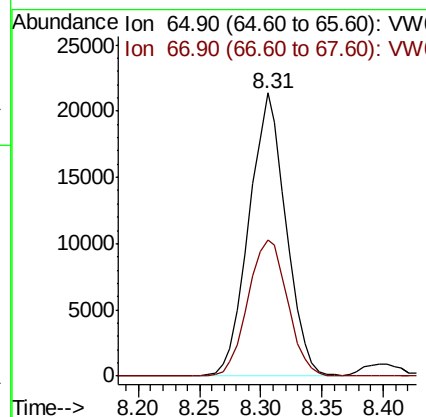
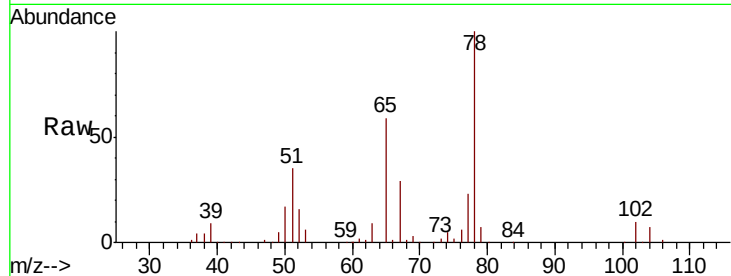
#33
 1,2-Dichloroethane-d4
 Concen: 51.458 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW007497.D
 Acq: 13 Dec 2018 20:47

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	101.6

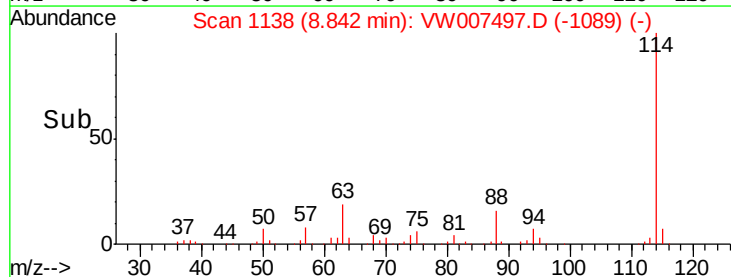
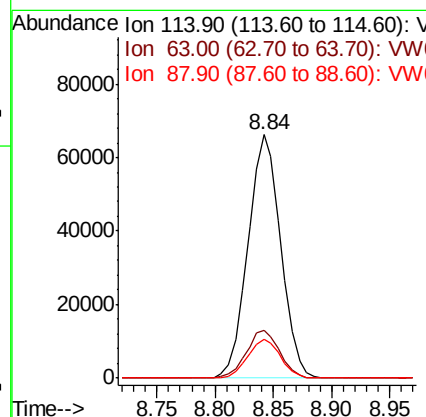
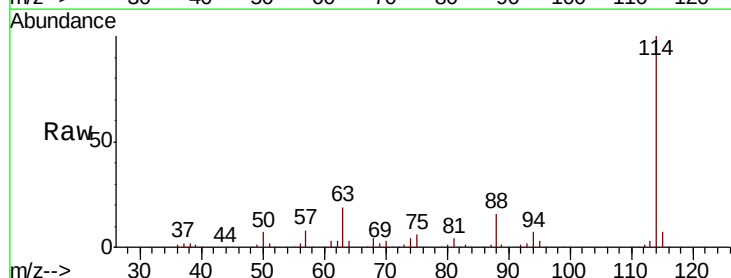
Manual Integrations
 APPROVED

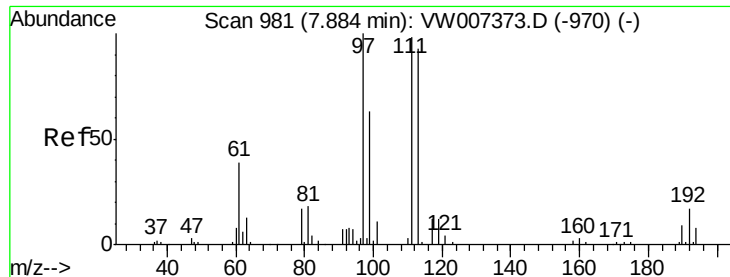
MMDadoda
 12/14/2018 11:24:57 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW007497.D
 Acq: 13 Dec 2018 20:47

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	39.6
88	15.7	0.0	31.4





#35

Dibromofluoromethane

Concen: 54.460 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW007497.D

Acq: 13 Dec 2018 20:47

Instrument :

MSVOA_W

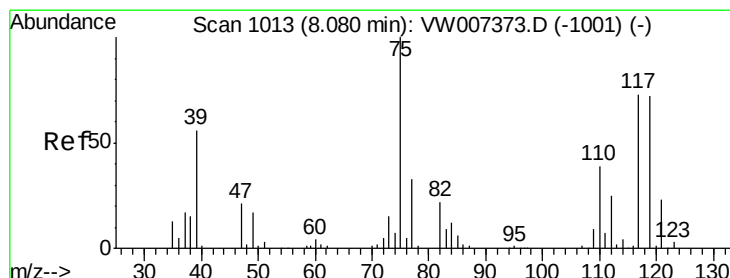
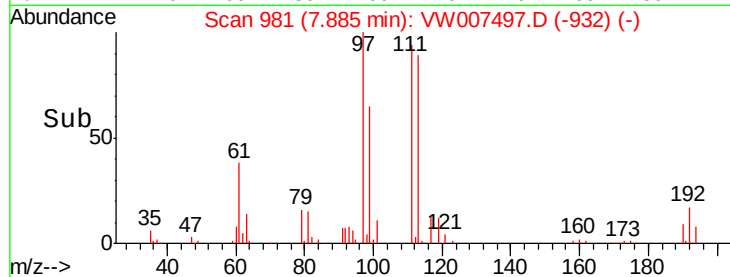
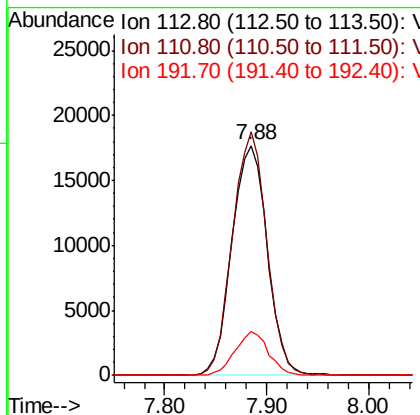
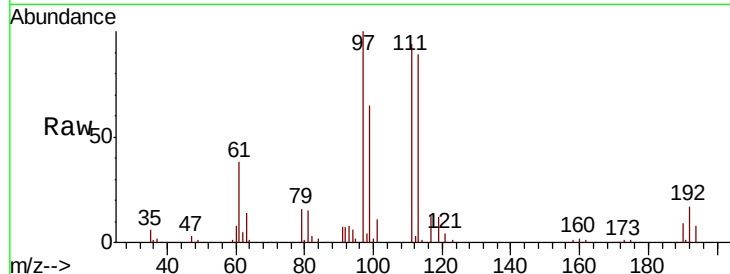
ClientSampleId :

VSTDCCC050

Tot Ion:	113	Resp:	42626
Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.1	121.7
192	17.8	14.6	21.8

Manual Integrations
APPROVED

MMDadoda
12/14/2018 11:24:57 AM



#36

1,1-Dichloropropene

Concen: 52.312 ug/l

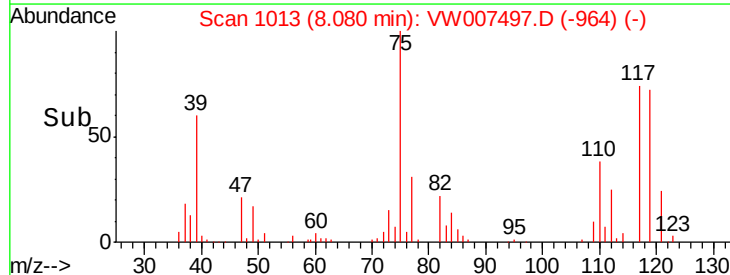
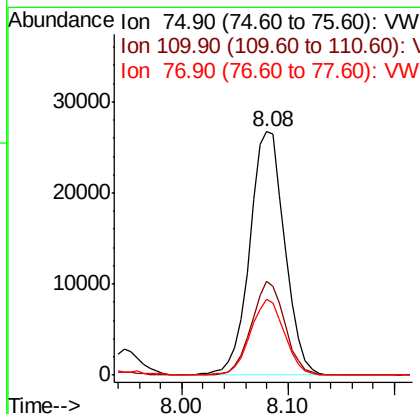
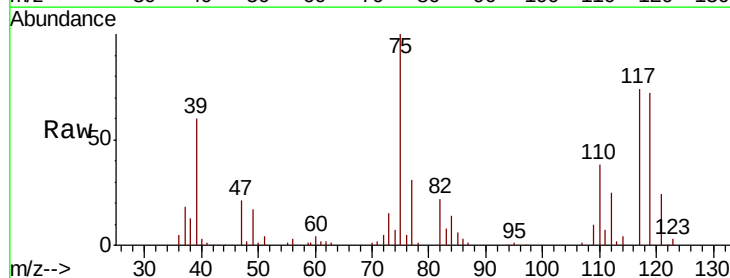
RT: 8.08 min Scan# 1013

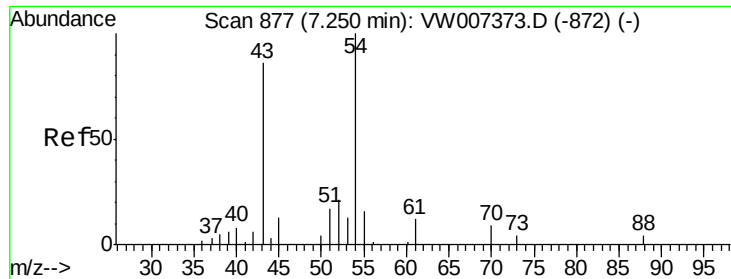
Delta R.T. 0.00 min

Lab File: VW007497.D

Acq: 13 Dec 2018 20:47

Tgt Ion:	75	Resp:	61703
Ion	Ratio	Lower	Upper
75	100		
110	36.5	18.5	55.5
77	30.4	25.6	38.4





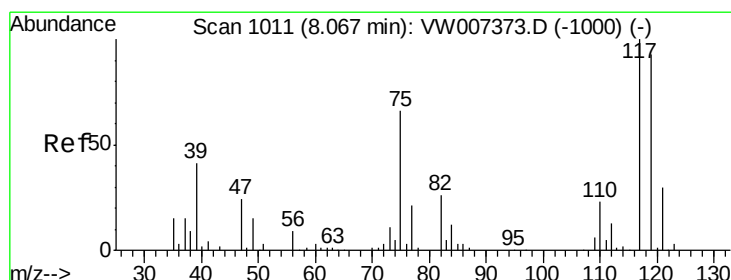
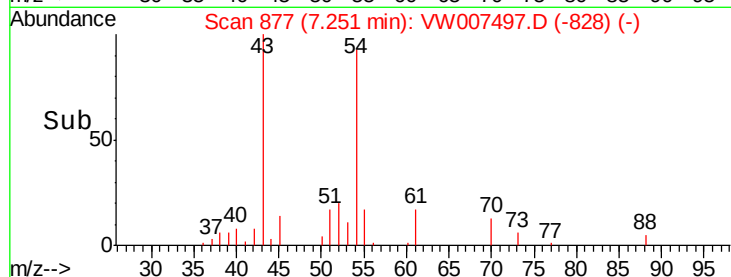
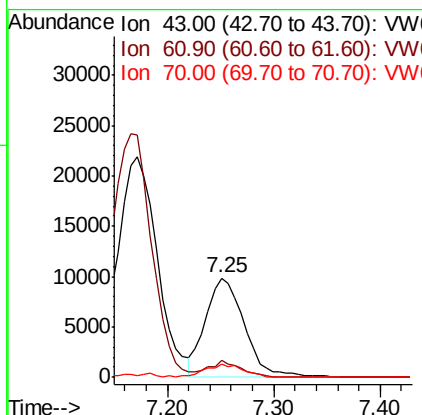
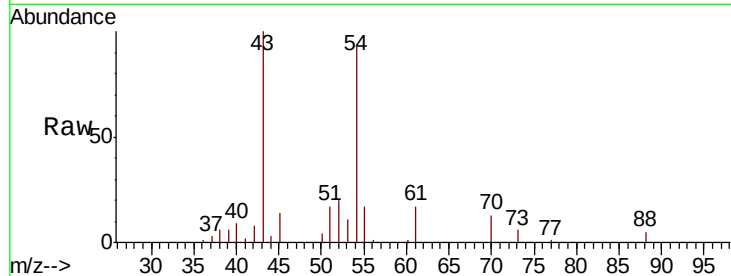
#37
Ethyl Acetate
Concen: 56.842 ug/l
RT: 7.25 min Scan# 877
Delta R.T. 0.00 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.7	12.1	18.1
70	12.9	10.0	15.0

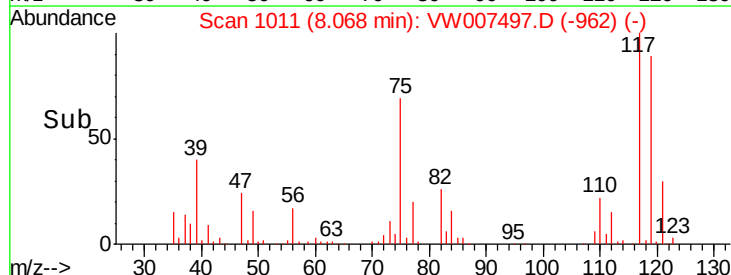
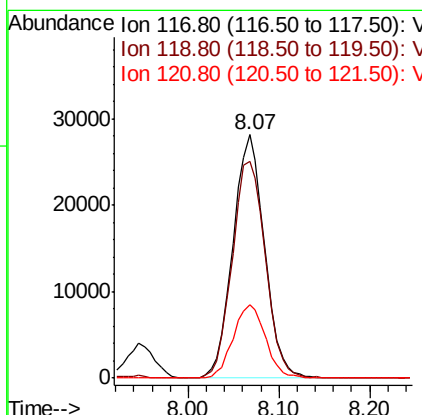
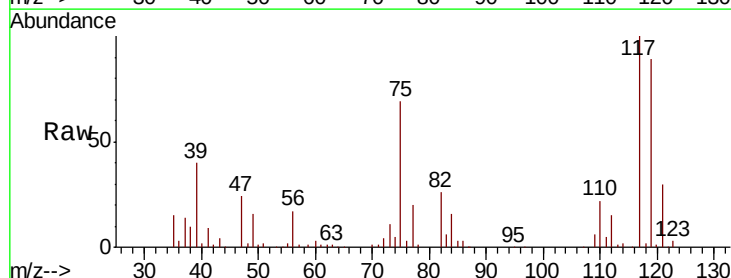
Manual Integrations
APPROVED

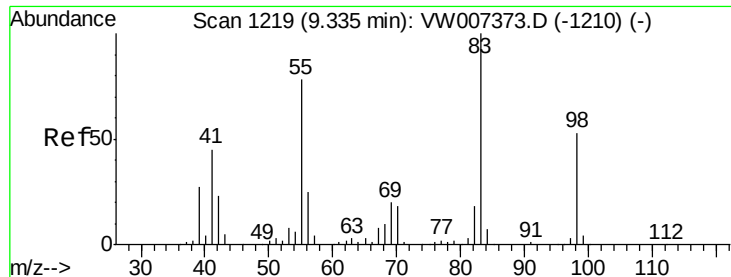
MMDadoda
12/14/2018 11:24:57 AM



#38
Carbon Tetrachloride
Concen: 52.878 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. 0.00 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Tgt Ion	Ratio	Lower	Upper
117	100		
119	89.0	74.3	111.5
121	30.2	24.3	36.5





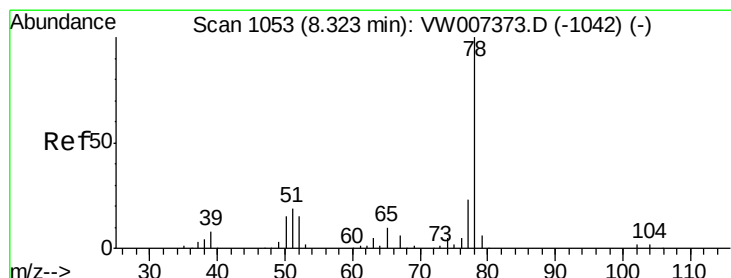
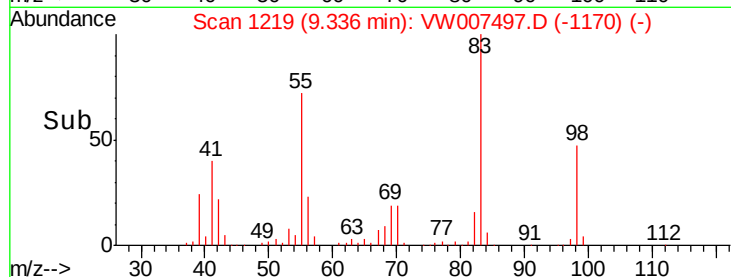
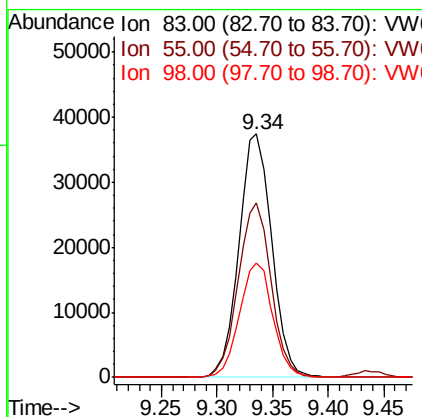
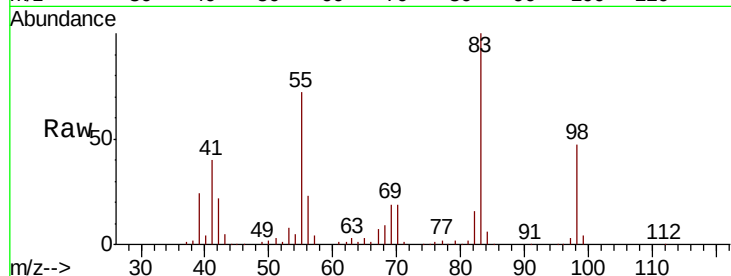
#39
Methylvlcyclohexane
Concen: 53.735 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	71.9	62.8	94.2
98	47.1	42.2	63.2

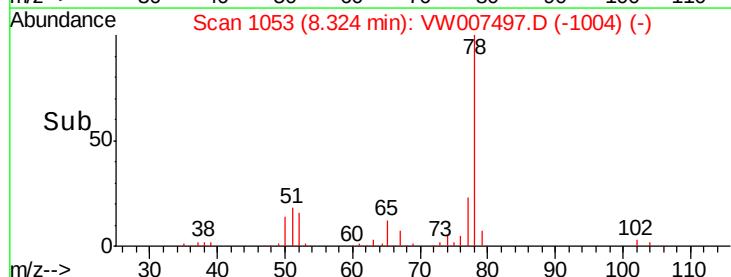
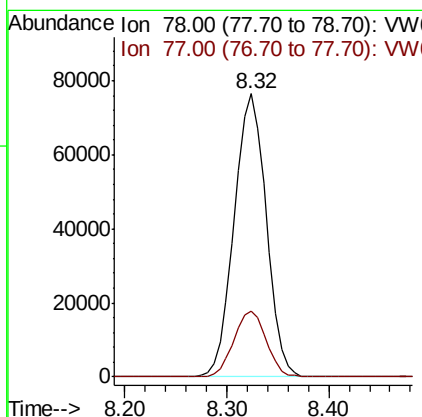
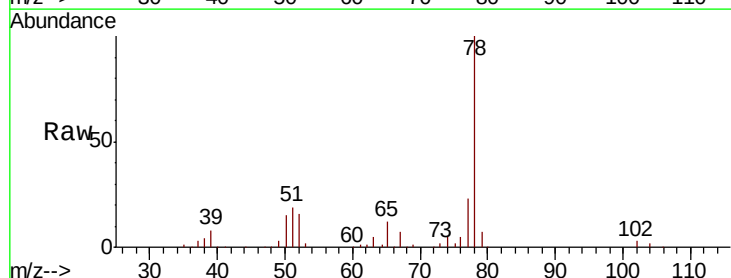
Manual Integrations
APPROVED

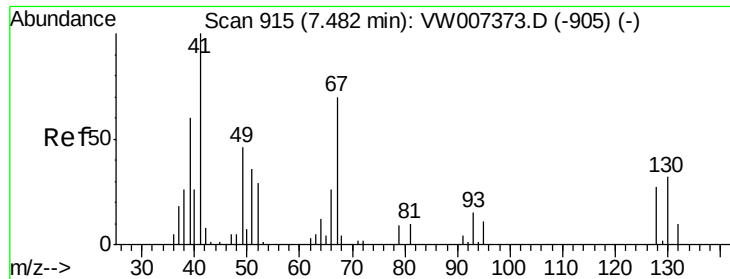
MMDadoda
12/14/2018 11:24:57 AM



#40
Benzene
Concen: 50.981 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. 0.00 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.8	28.2





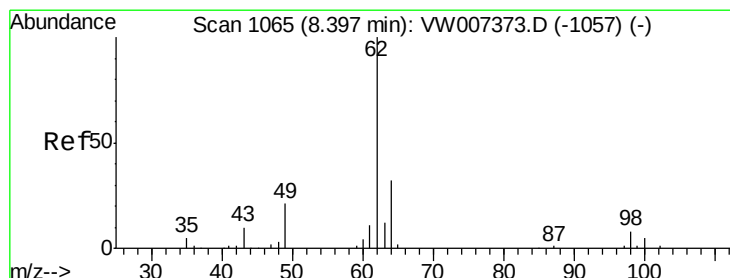
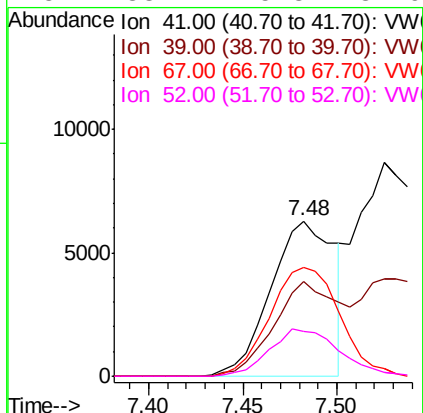
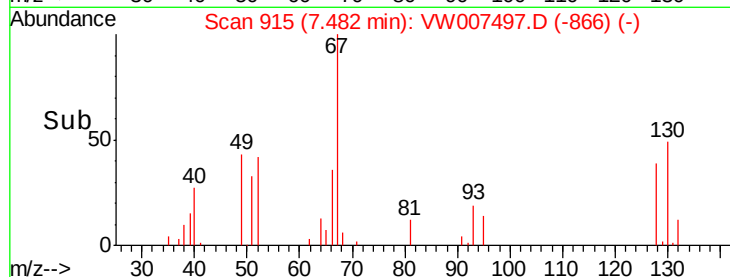
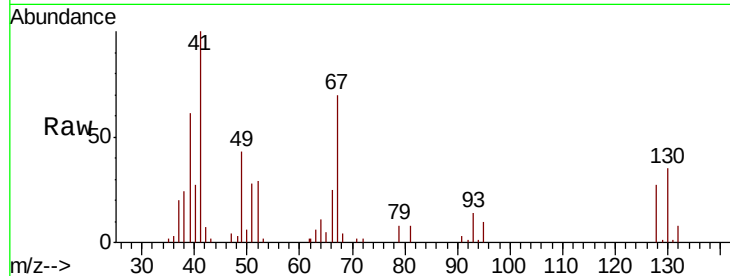
#41
Methacrylonitrile
Concen: 59.182 ug/l
RT: 7.48 min Scan# 915
Delta R.T. 0.00 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion:	41	Resp:	14785
Ion	Ratio	Lower	Upper
41	100		
39	64.1	52.2	78.2
67	76.7	60.5	90.7
52	33.4	25.3	37.9

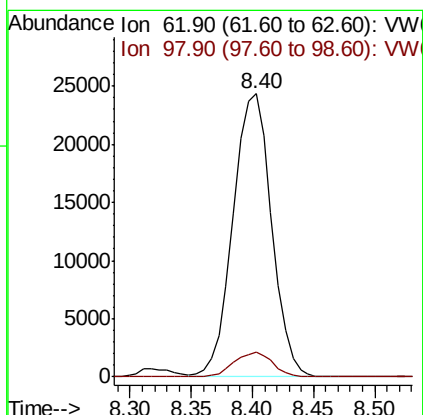
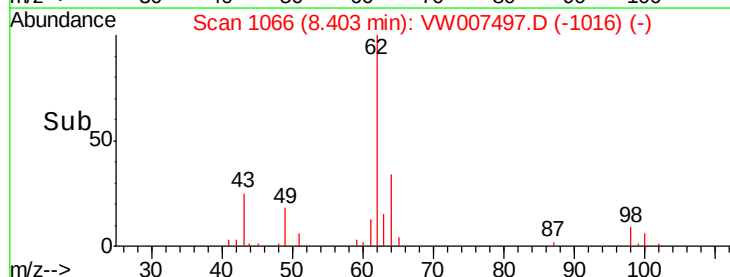
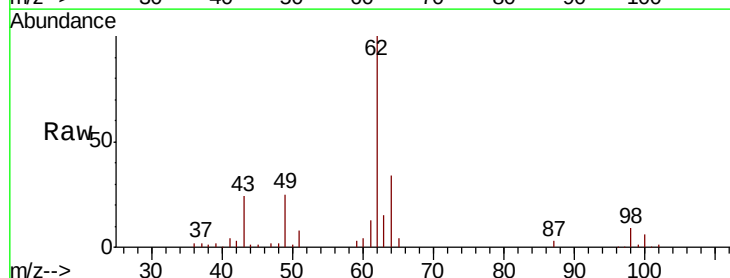
Manual Integrations
APPROVED

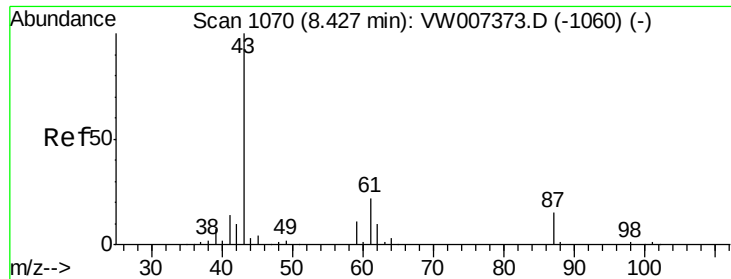
MMDadoda
12/14/2018 11:24:57 AM



#42
1,2-Dichloroethane
Concen: 51.778 ug/l
RT: 8.40 min Scan# 1066
Delta R.T. 0.01 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Tgt Ion:	62	Resp:	53241
Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	17.6





#43

Isopropyl Acetate

Concen: 56.969 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. 0.00 min

Lab File: VW007497.D

Acq: 13 Dec 2018 20:47

Instrument :

MSVOA_W

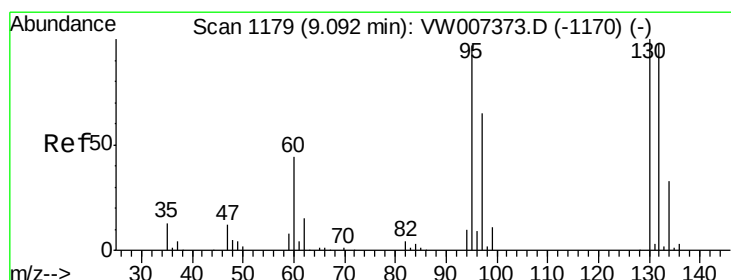
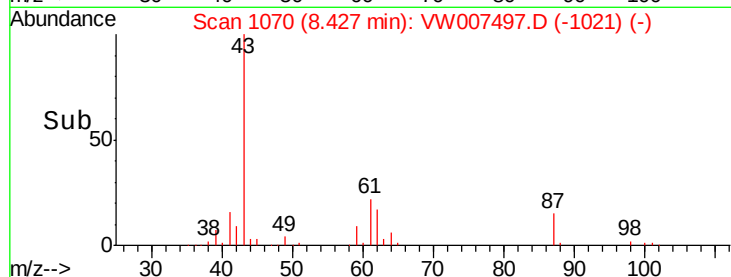
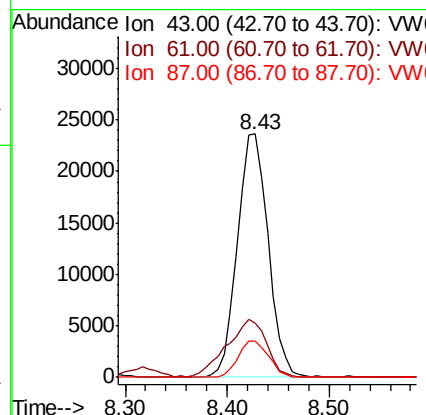
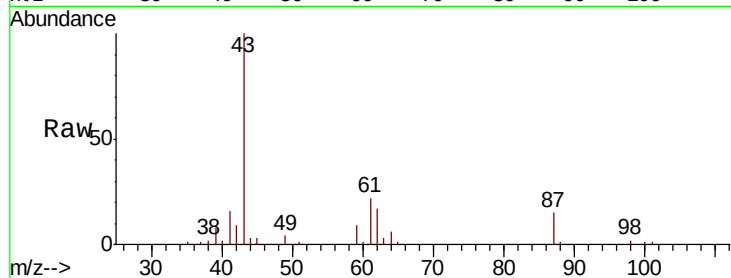
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	49368
Ion	Ratio	Lower	Upper
43	100		
61	30.8	25.3	37.9
87	14.8	11.8	17.8

Manual Integrations
APPROVED

MMDadoda
12/14/2018 11:24:57 AM



#44

Trichloroethene

Concen: 51.900 ug/l

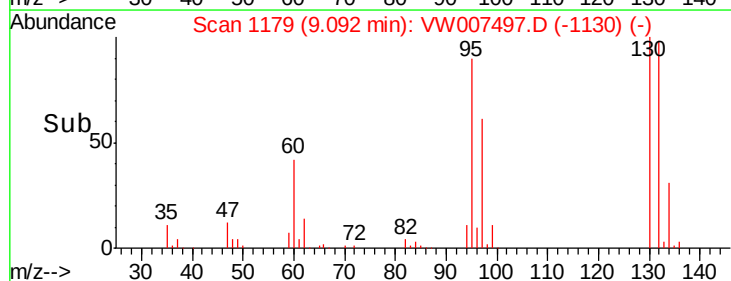
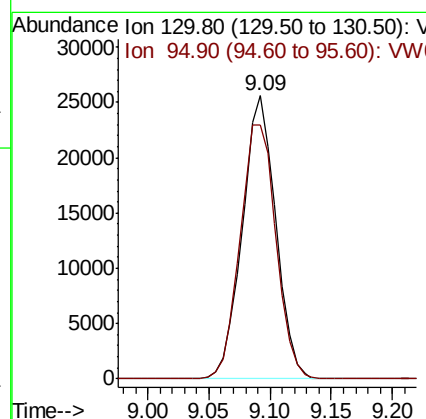
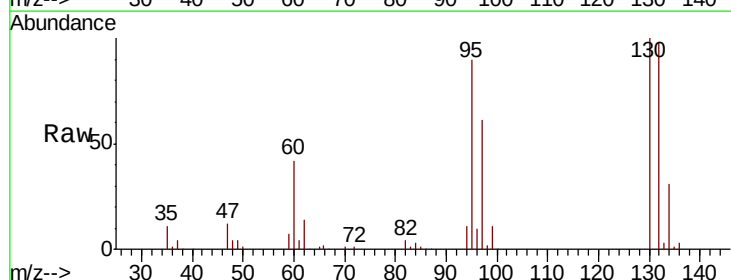
RT: 9.09 min Scan# 1179

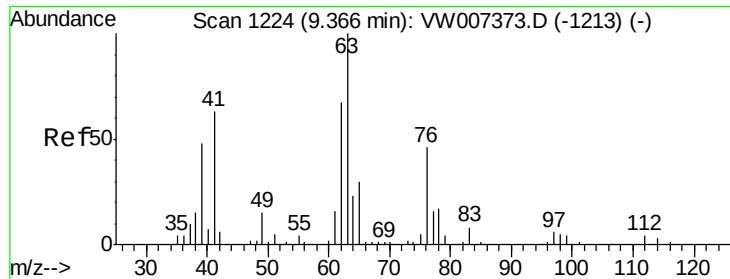
Delta R.T. 0.00 min

Lab File: VW007497.D

Acq: 13 Dec 2018 20:47

Tgt Ion:	130	Resp:	48513
Ion	Ratio	Lower	Upper
130	100		
95	89.8	0.0	193.2





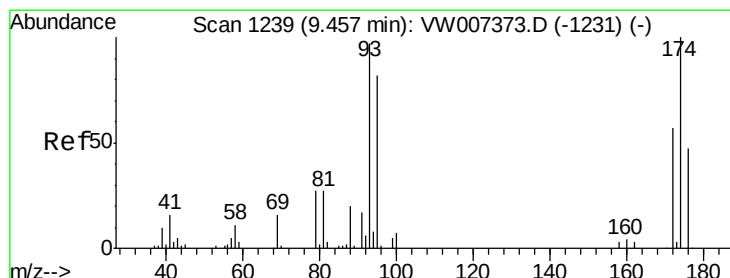
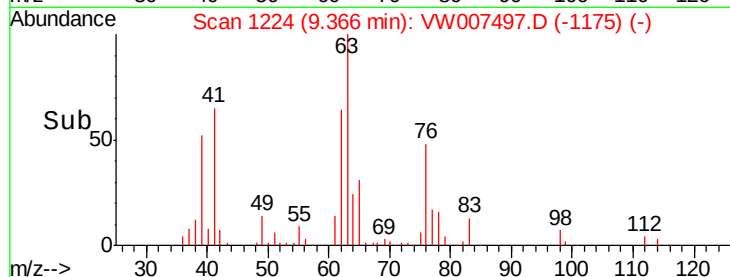
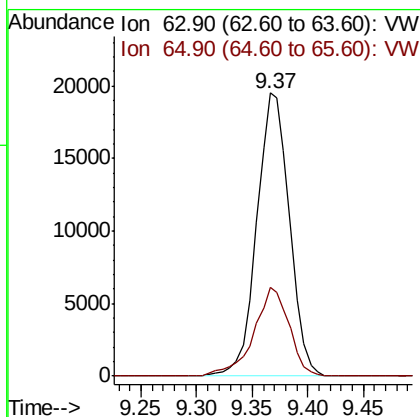
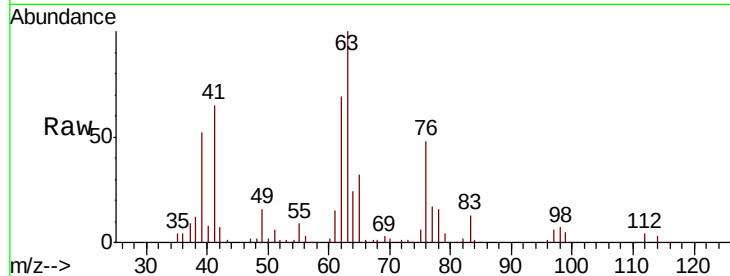
#45
 1,2-Dichloropropane
 Concen: 52.530 ug/l
 RT: 9.37 min Scan# 1224
 Delta R.T. 0.00 min
 Lab File: VW007497.D
 Acq: 13 Dec 2018 20:47

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.5	24.4	36.6

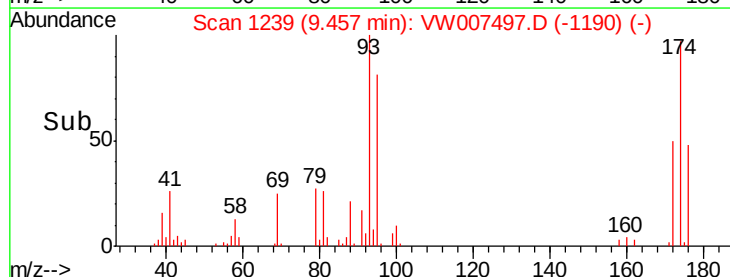
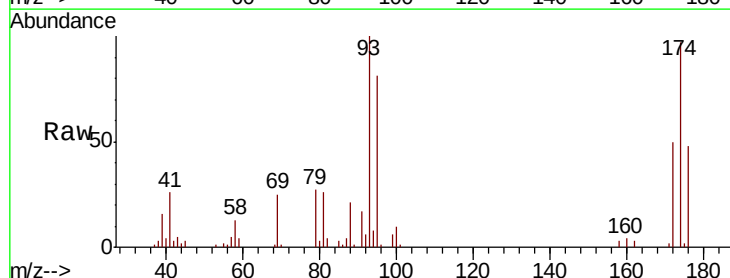
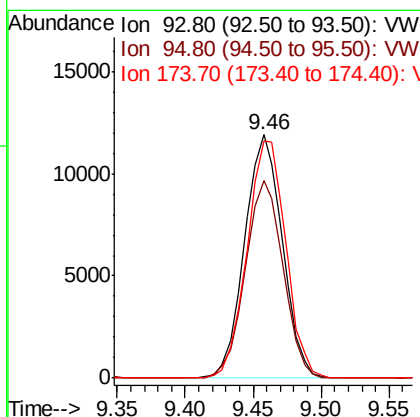
Manual Integrations
 APPROVED

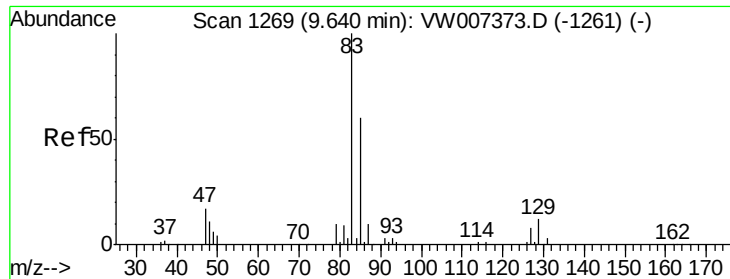
MMDadoda
 12/14/2018 11:24:57 AM



#46
 Dibromomethane
 Concen: 53.690 ug/l
 RT: 9.46 min Scan# 1239
 Delta R.T. 0.00 min
 Lab File: VW007497.D
 Acq: 13 Dec 2018 20:47

Tgt Ion	Ratio	Lower	Upper
93	100		
95	81.4	68.0	102.0
174	100.1	83.2	124.8





#47

Bromodichloromethane

Concen: 51.807 ug/l

RT: 9.65 min Scan# 1270

Delta R.T. 0.01 min

Lab File: VW007497.D

Acq: 13 Dec 2018 20:47

Instrument :

MSVOA_W

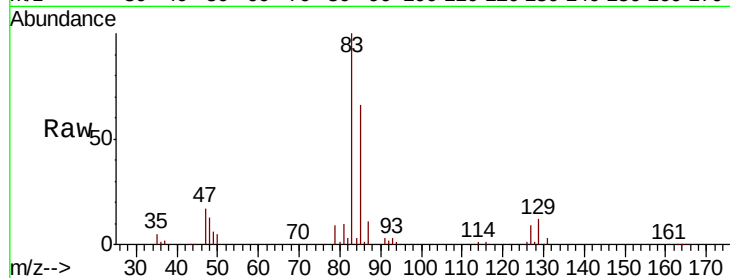
ClientSampleId :

VSTDCCC050

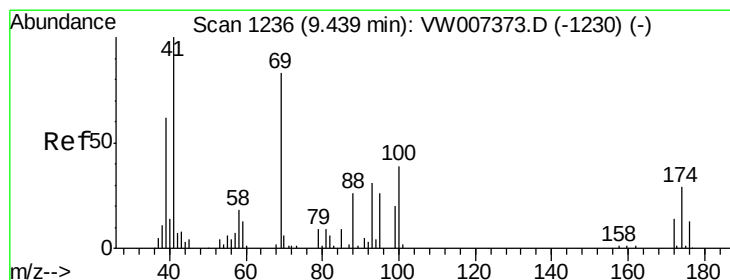
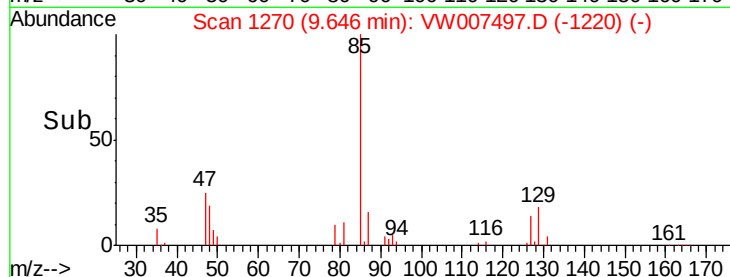
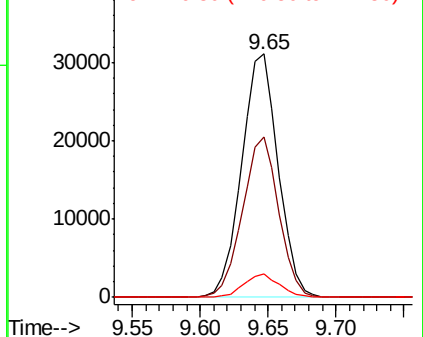
Tot Ion:	83	Resp:	58456
Ion Ratio	Lower	Upper	
83	100		
85	66.0	47.6	71.4
127	9.4	6.7	10.1

Manual Integrations
APPROVED

MMDadoda
12/14/2018 11:24:57 AM



Abundance Ion 82.90 (82.60 to 83.60): VW
Ion 84.90 (84.60 to 85.60): VW
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 54.283 ug/l

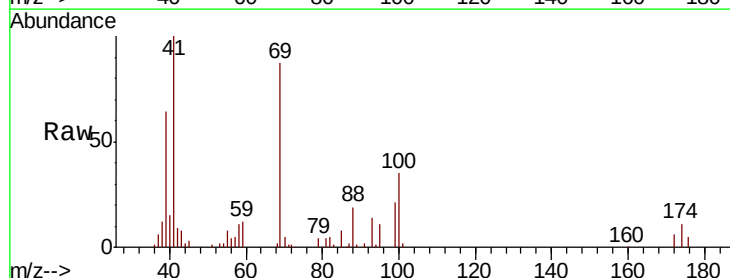
RT: 9.43 min Scan# 1235

Delta R.T. -0.01 min

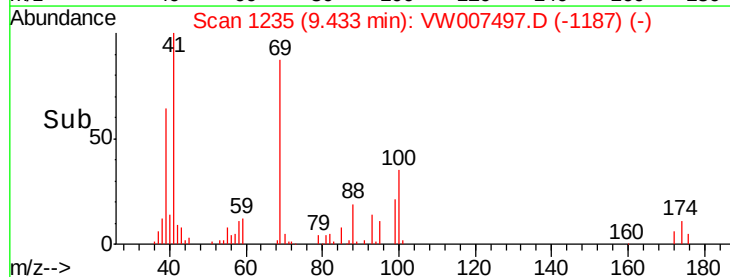
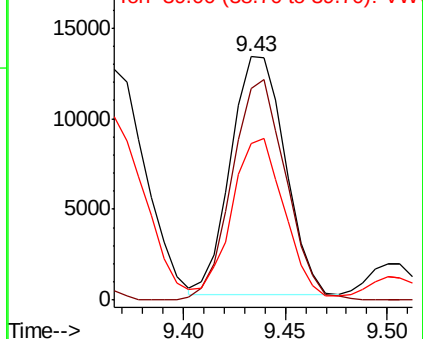
Lab File: VW007497.D

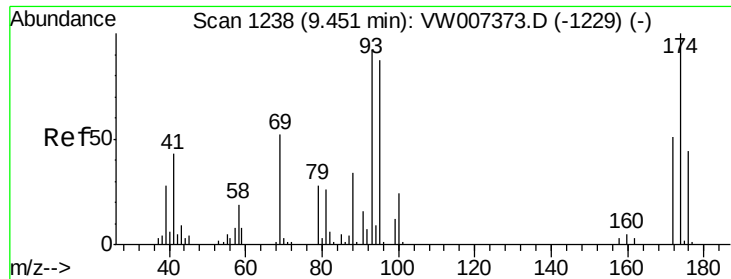
Acq: 13 Dec 2018 20:47

Tgt Ion:	41	Resp:	24159
Ion Ratio	Lower	Upper	
41	100		
69	92.4	69.8	104.8
39	67.2	50.9	76.3



Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 39.00 (38.70 to 39.70): VW





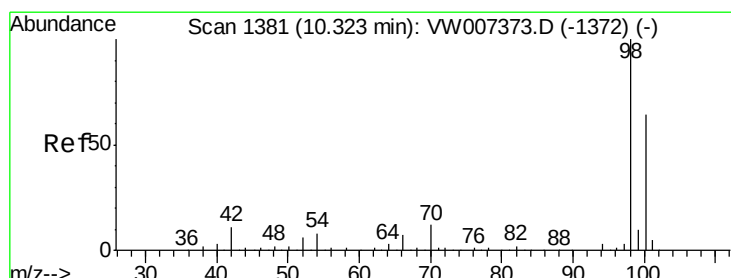
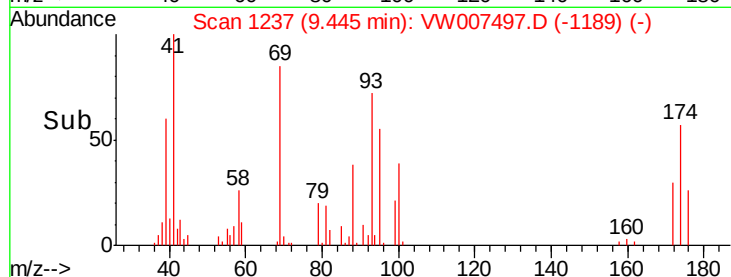
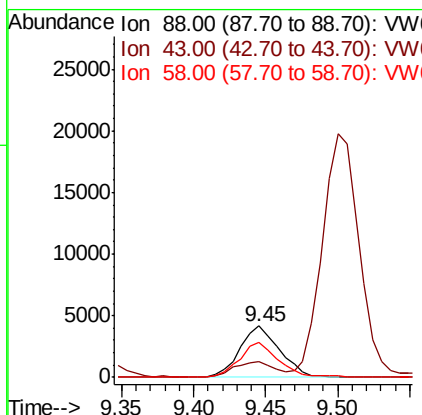
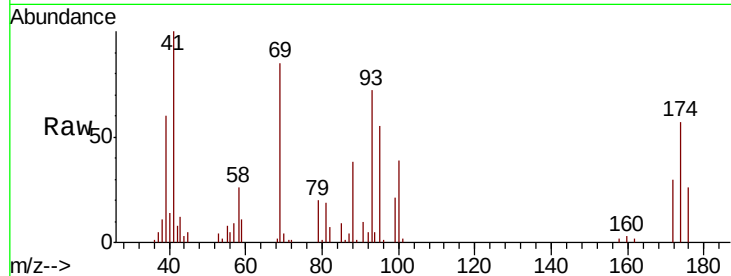
#49
1,4-Dioxane
Concen: 1136.562 ug/l
RT: 9.45 min Scan# 1237
Delta R.T. -0.01 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	32.0	25.0	37.4
58	68.8	51.4	77.2

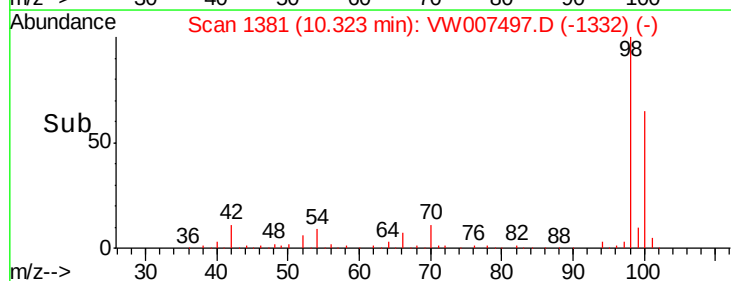
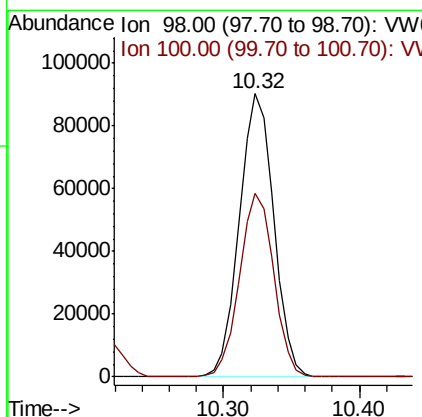
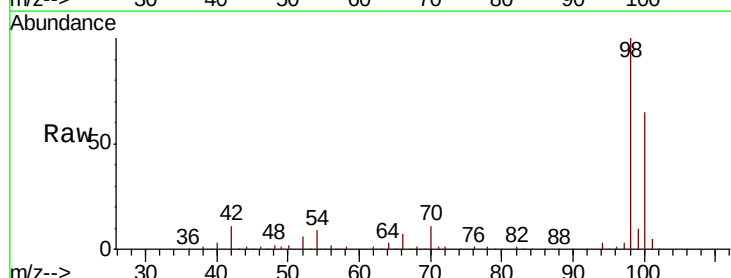
Manual Integrations
APPROVED

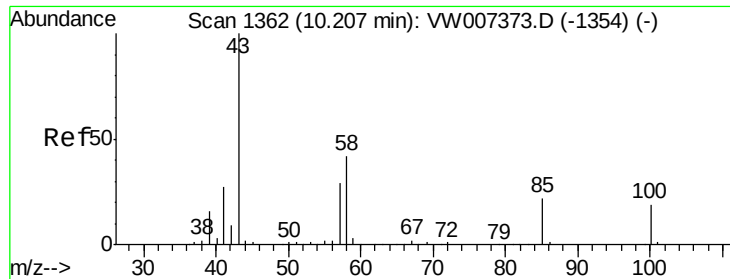
MMDadoda
12/14/2018 11:24:57 AM



#50
Toluene-d8
Concen: 54.418 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.8	77.8





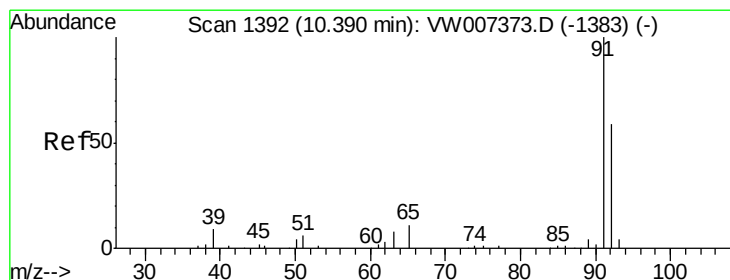
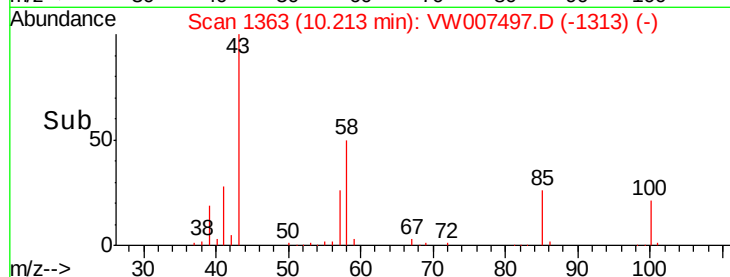
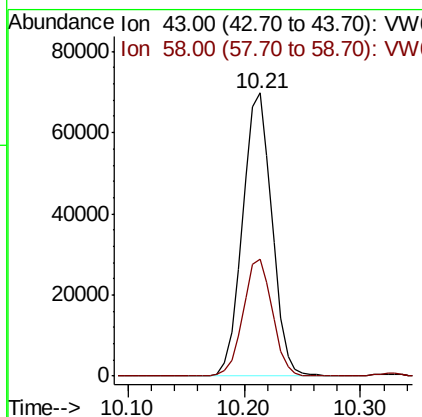
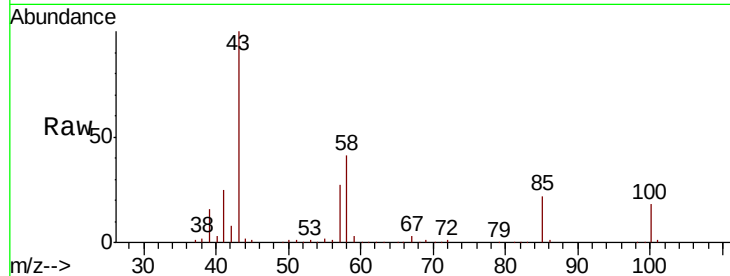
#51
4-Methyl-2-Pentanone
Concen: 300.861 ug/l
RT: 10.21 min Scan# 1363
Delta R.T. 0.01 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
58	40.9	33.1	49.7

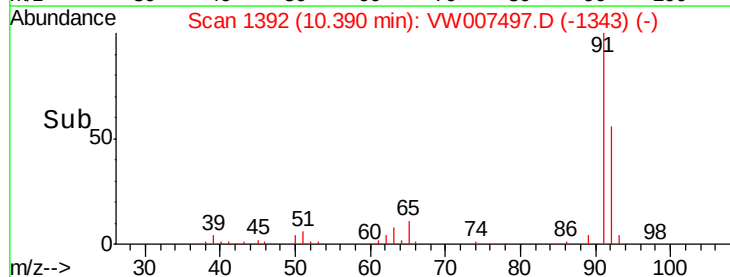
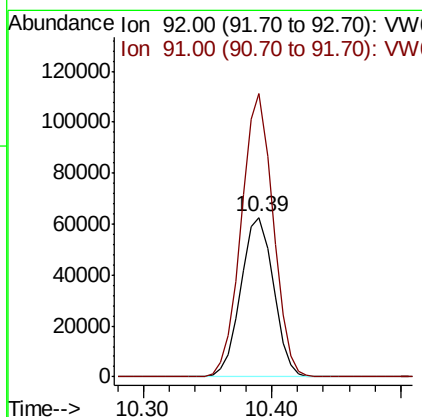
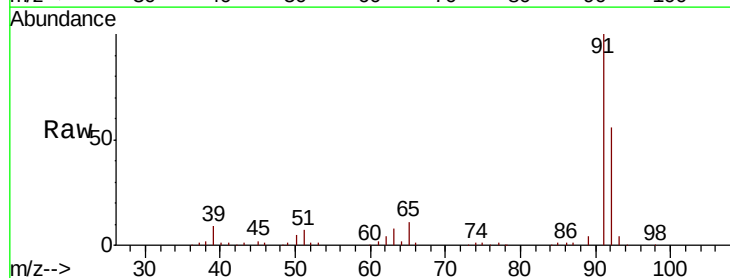
Manual Integrations
APPROVED

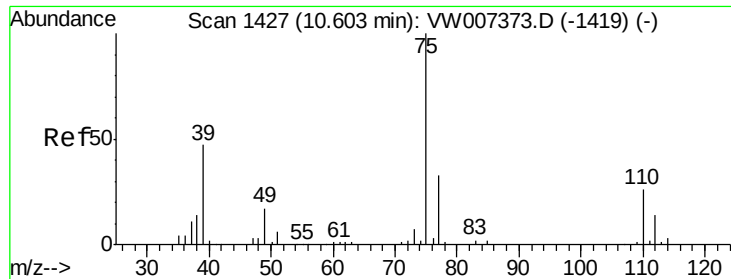
MMDadoda
12/14/2018 11:24:57 AM



#52
Toluene
Concen: 52.034 ug/l
RT: 10.39 min Scan# 1392
Delta R.T. 0.00 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Tgt Ion	Ratio	Lower	Upper
92	100		
91	172.2	136.2	204.2





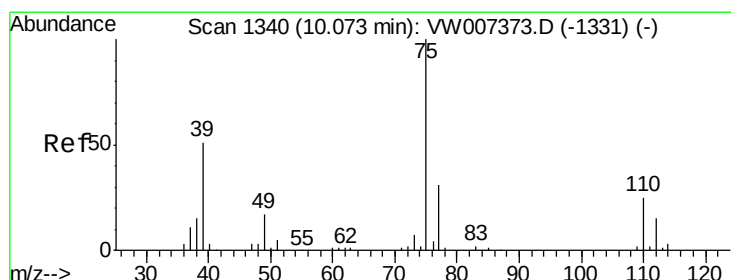
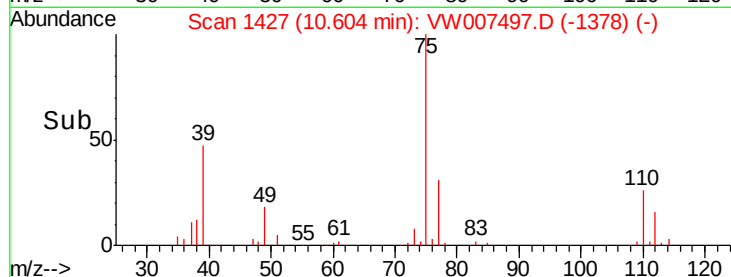
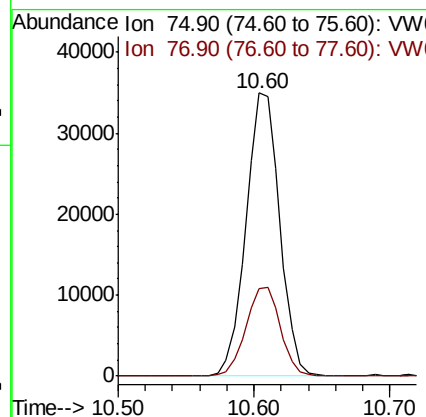
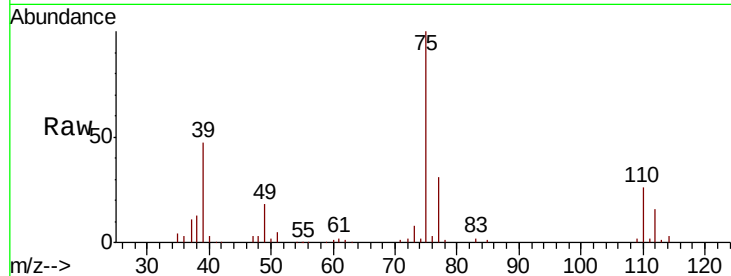
#53
 t-1,3-Dichloropropene
 Concen: 55.163 ug/l
 RT: 10.60 min Scan# 1427
 Delta R.T. 0.00 min
 Lab File: VW007497.D
 Acq: 13 Dec 2018 20:47

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.1	26.2	39.4

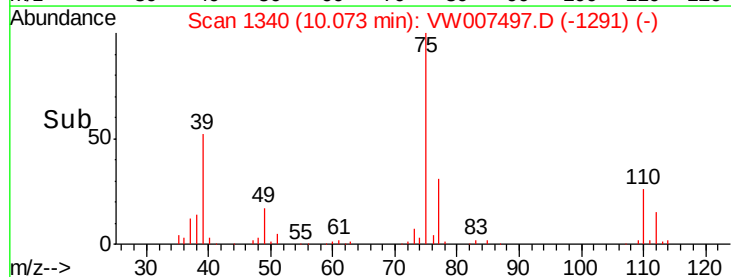
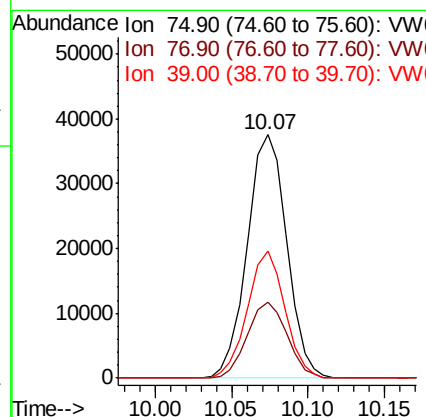
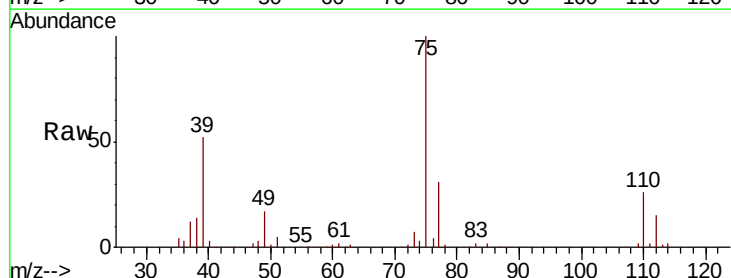
Manual Integrations
 APPROVED

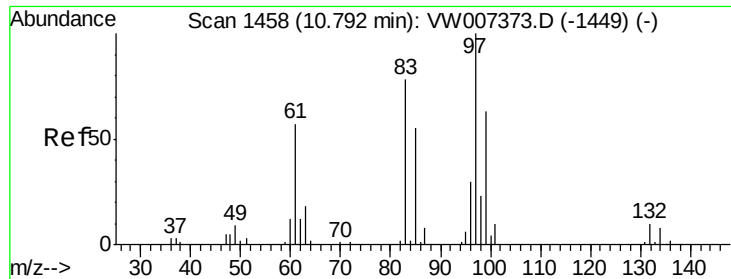
MMDadoda
 12/14/2018 11:24:57 AM



#54
 cis-1,3-Dichloropropene
 Concen: 53.345 ug/l
 RT: 10.07 min Scan# 1340
 Delta R.T. 0.00 min
 Lab File: VW007497.D
 Acq: 13 Dec 2018 20:47

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.2	24.8	37.2
39	52.1	40.9	61.3





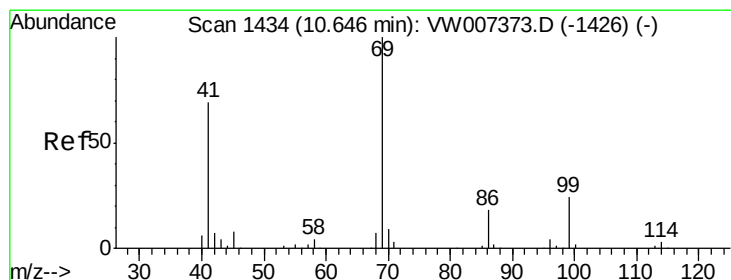
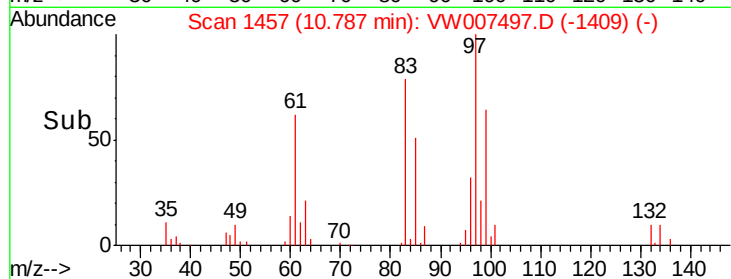
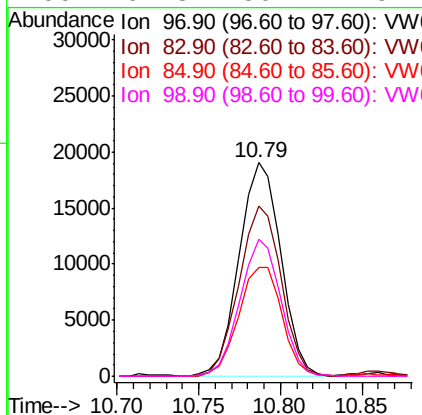
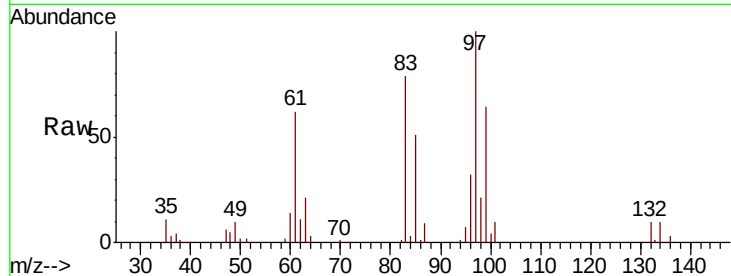
#55
 1,1,2-Trichloroethane
 Concen: 58.128 ug/l
 RT: 10.79 min Scan# 1457
 Delta R.T. -0.01 min
 Lab File: VW007497.D
 Acq: 13 Dec 2018 20:47

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion:	97	Resp:	34032
Ion	Ratio	Lower	Upper
97	100		
83	79.5	62.1	93.1
85	51.2	44.2	66.4
99	64.3	50.2	75.4

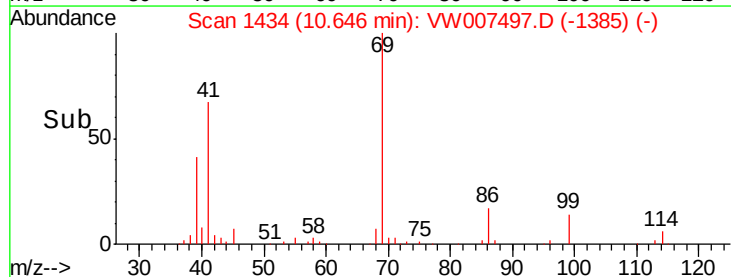
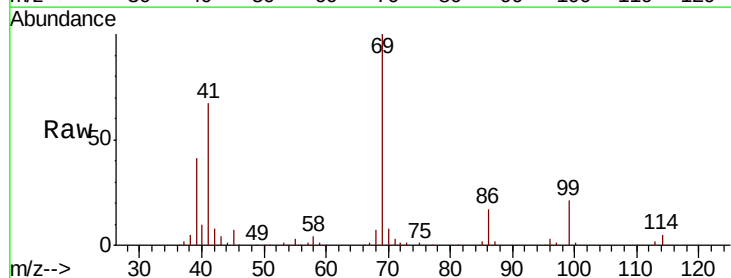
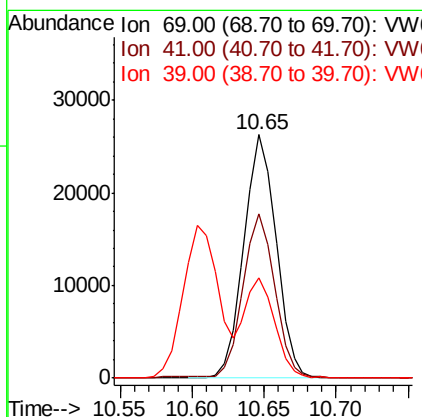
Manual Integrations
 APPROVED

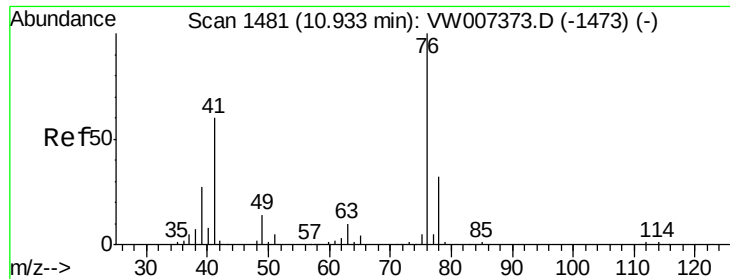
MMDadoda
 12/14/2018 11:24:57 AM



#56
 Ethyl methacrylate
 Concen: 58.091 ug/l
 RT: 10.65 min Scan# 1434
 Delta R.T. 0.00 min
 Lab File: VW007497.D
 Acq: 13 Dec 2018 20:47

Tgt Ion:	69	Resp:	40879
Ion	Ratio	Lower	Upper
69	100		
41	66.4	51.0	76.6
39	39.0	30.8	46.2





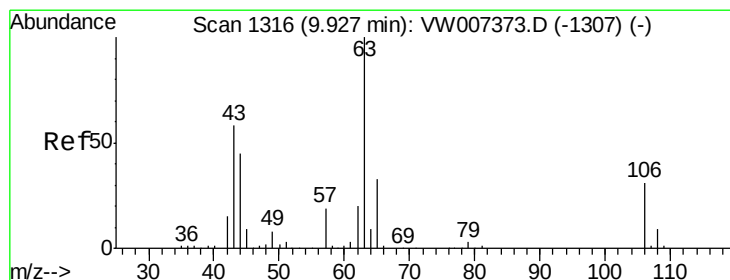
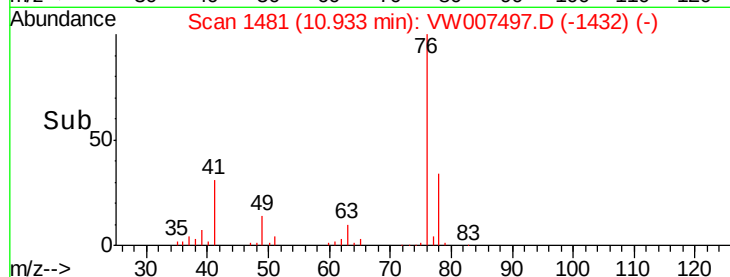
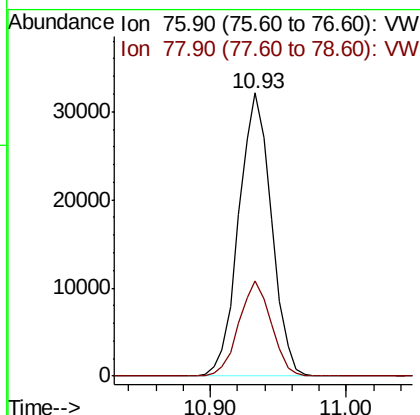
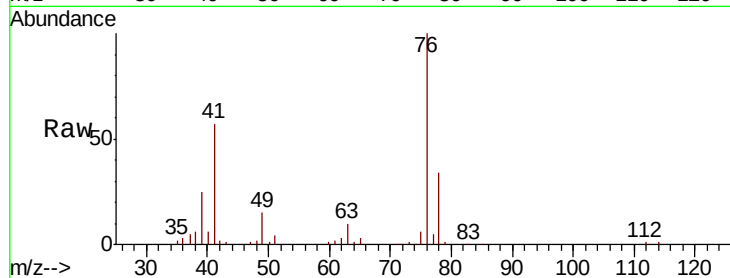
#57
 1,3-Dichloropropane
 Concen: 56.070 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. 0.00 min
 Lab File: VW007497.D
 Acq: 13 Dec 2018 20:47

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion: 76 Resp: 53881
 Ion Ratio Lower Upper
 76 100
 78 33.2 26.2 39.4

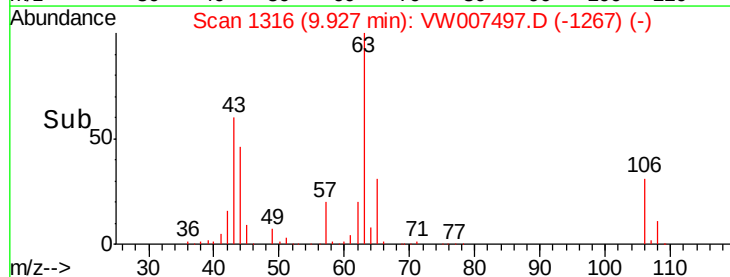
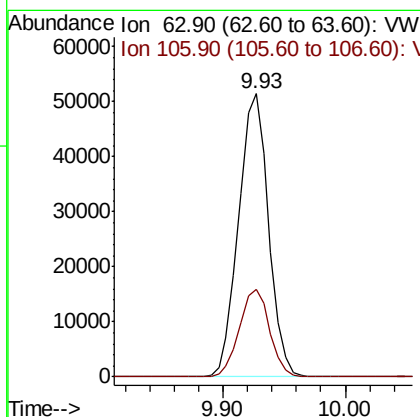
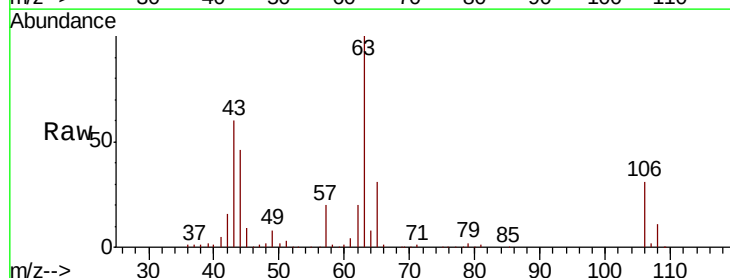
Manual Integrations
 APPROVED

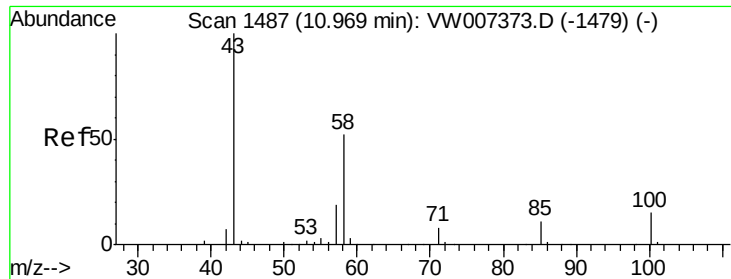
MMDadoda
 12/14/2018 11:24:57 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 268.948 ug/l
 RT: 9.93 min Scan# 1316
 Delta R.T. 0.00 min
 Lab File: VW007497.D
 Acq: 13 Dec 2018 20:47

Tgt Ion: 63 Resp: 87277
 Ion Ratio Lower Upper
 63 100
 106 31.1 25.0 37.6





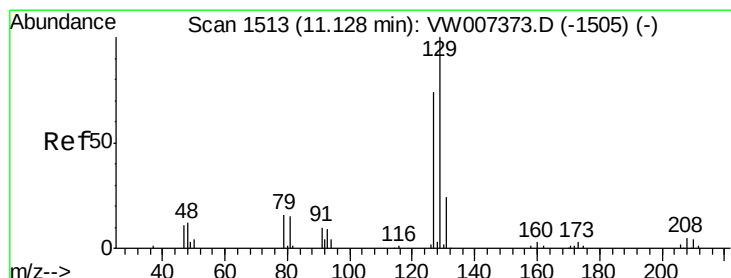
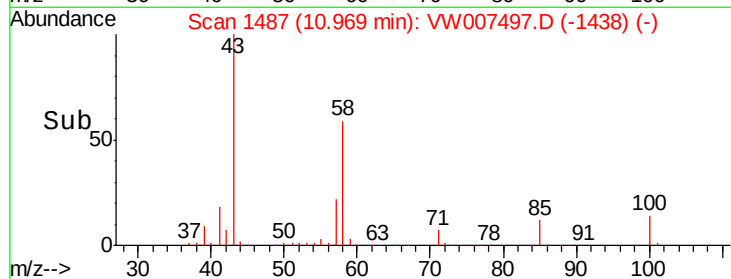
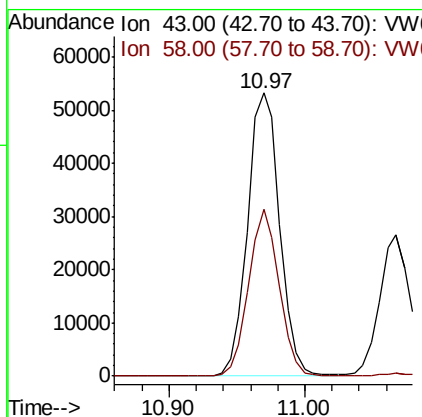
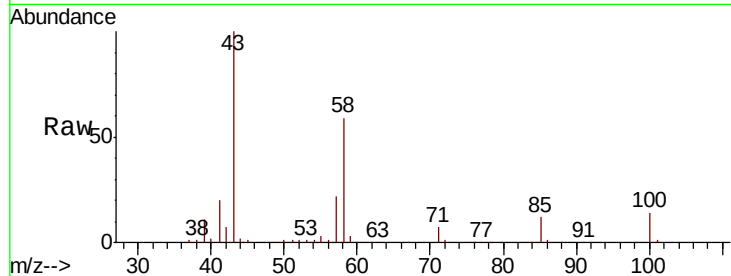
#59
2-Hexanone
Concen: 322.661 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 88095
Ion Ratio Lower Upper
43 100
58 55.9 27.1 81.3

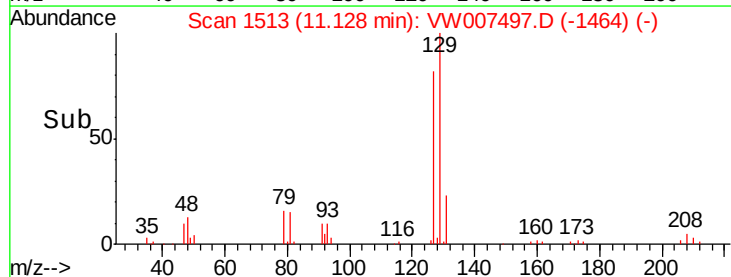
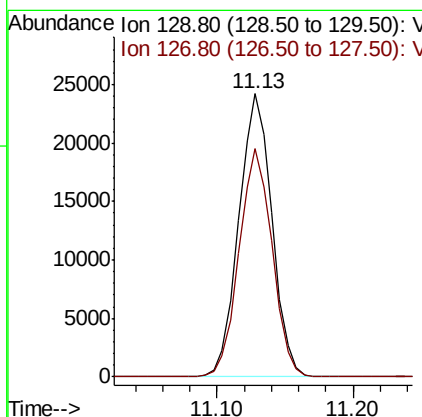
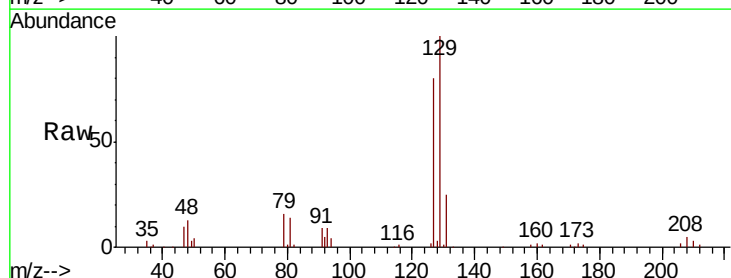
Manual Integrations
APPROVED

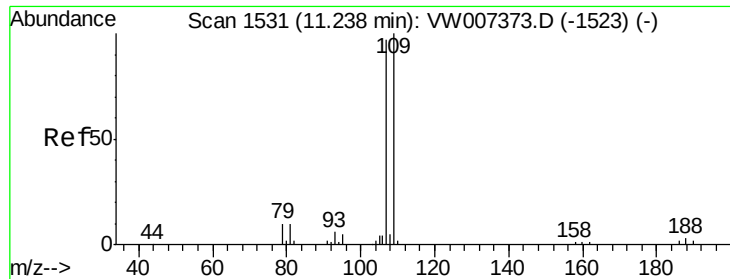
MMDadoda
12/14/2018 11:24:57 AM



#60
Dibromochloromethane
Concen: 55.566 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Tgt Ion: 129 Resp: 41055
Ion Ratio Lower Upper
129 100
127 80.3 38.1 114.3





#61

1,2-Dibromoethane

Concen: 57.061 ug/l

RT: 11.24 min Scan# 1531

Delta R.T. 0.00 min

Lab File: VW007497.D

Acq: 13 Dec 2018 20:47

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion:107 Resp: 33014

Ion Ratio Lower Upper

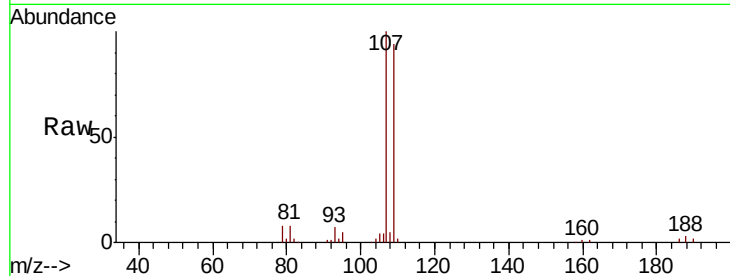
107 100

109 94.7 79.1 118.7

Manual Integrations
APPROVED

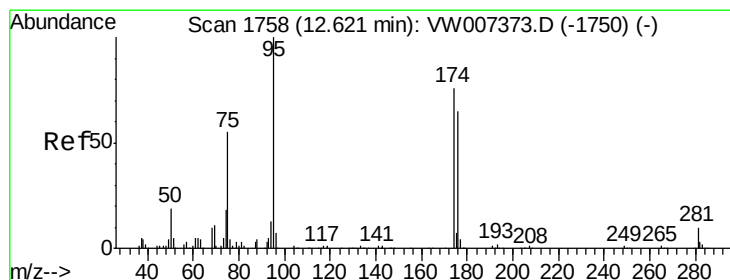
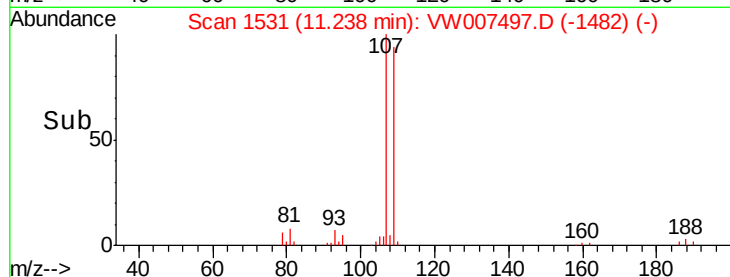
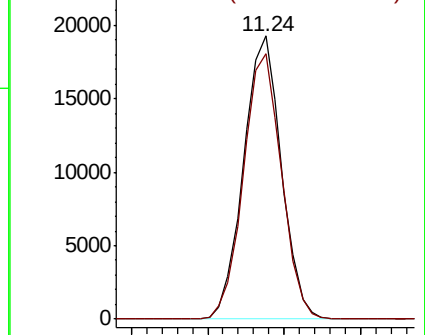
MMDadoda

12/14/2018 11:24:57 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 57.314 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW007497.D

Acq: 13 Dec 2018 20:47

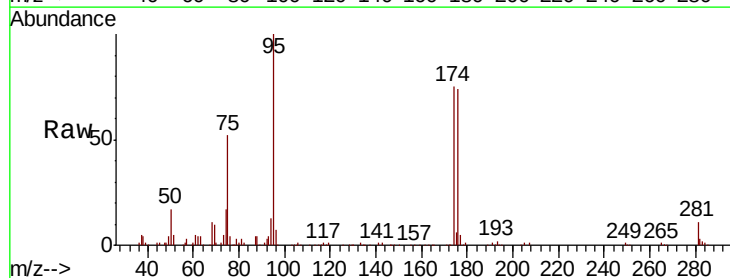
Tgt Ion: 95 Resp: 61843

Ion Ratio Lower Upper

95 100

174 74.6 0.0 147.2

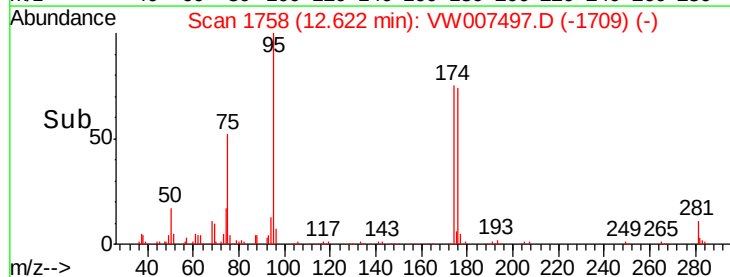
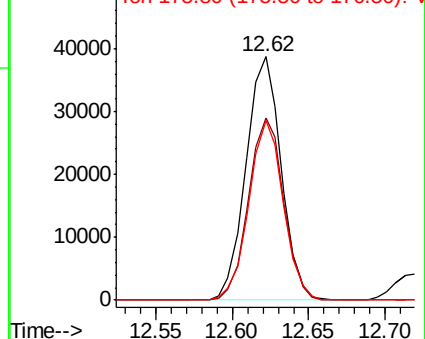
176 71.9 0.0 138.8

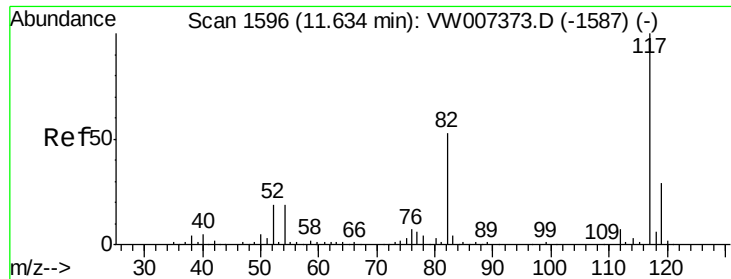


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VW007497.D

Acq: 13 Dec 2018 20:47

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion:117 Resp: 118968

Ion Ratio Lower Upper

117 100

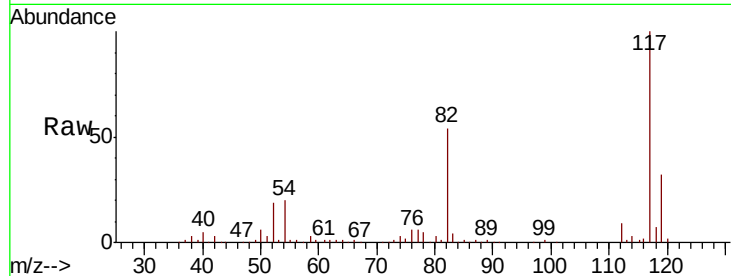
82 54.3 42.3 63.5

119 32.3 23.0 34.6

Manual Integrations
APPROVED

MMDadoda

12/14/2018 11:24:57 AM

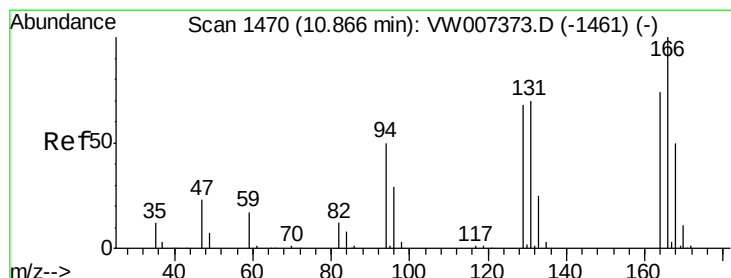
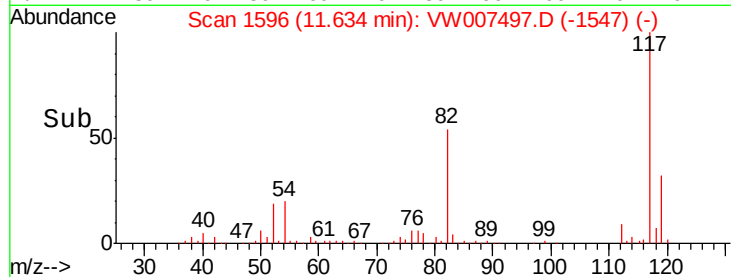
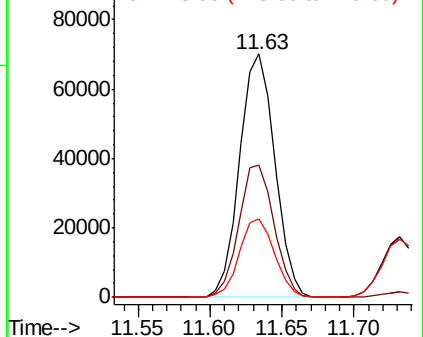


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 47.695 ug/l

RT: 10.87 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VW007497.D

Acq: 13 Dec 2018 20:47

Tgt Ion:164 Resp: 40805

Ion Ratio Lower Upper

164 100

166 127.9 107.9 161.9

129 100.3 73.4 110.2

131 93.1 75.8 113.6

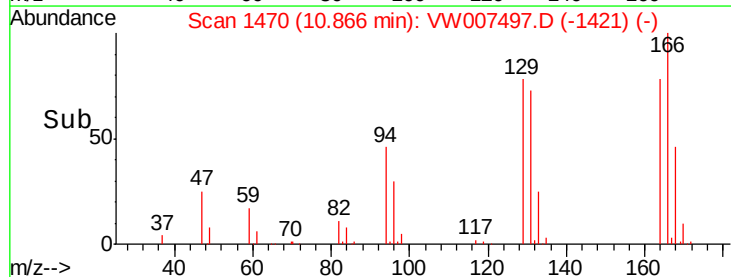
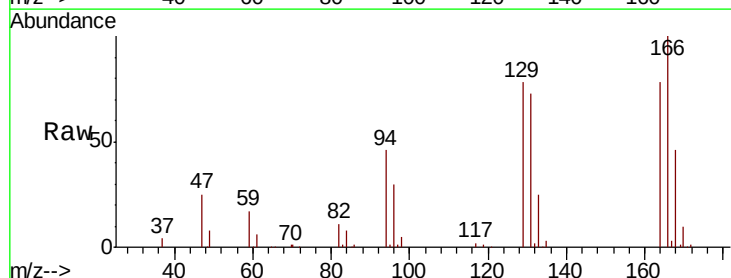
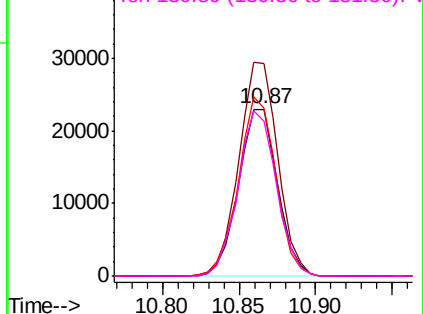
Abundance

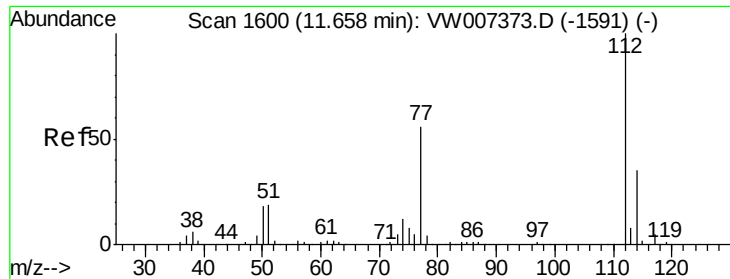
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





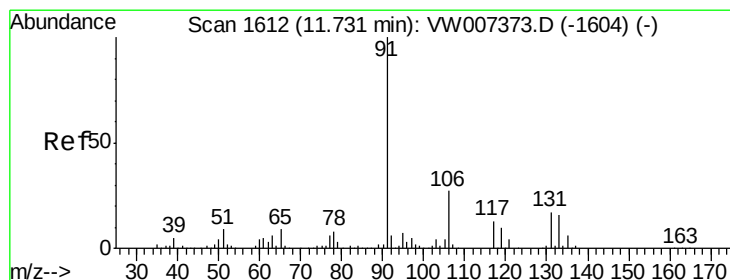
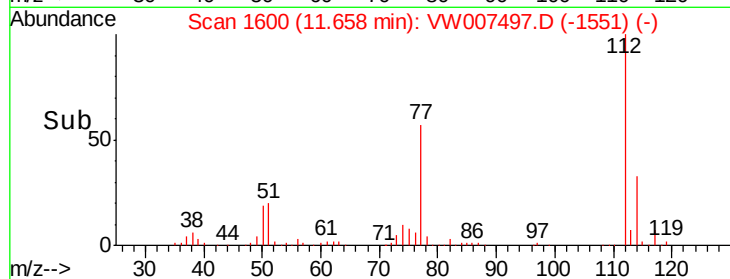
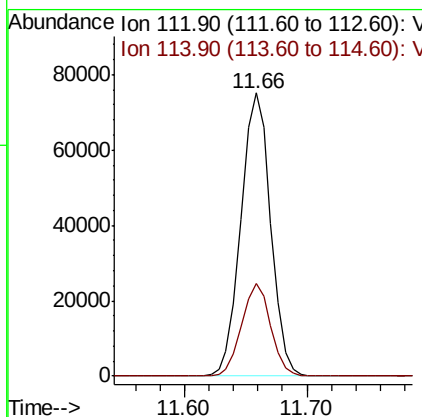
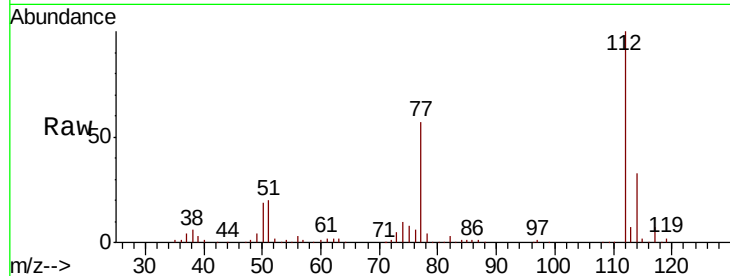
#65
Chlorobenzene
Concen: 50.903 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.8	27.8	41.8

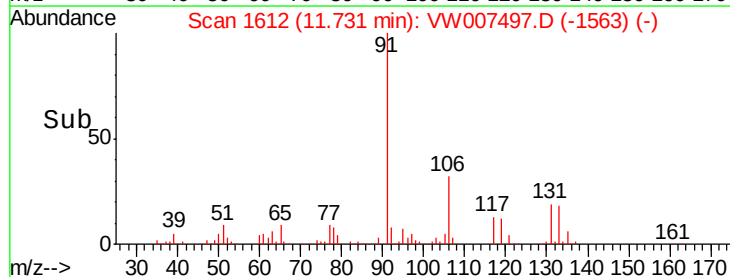
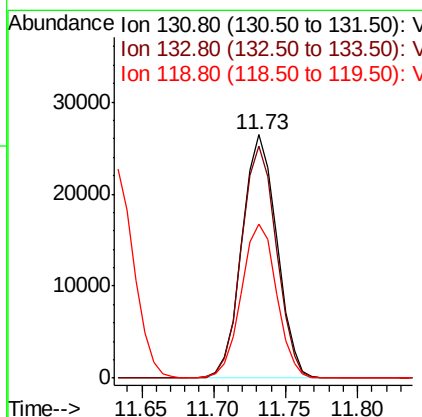
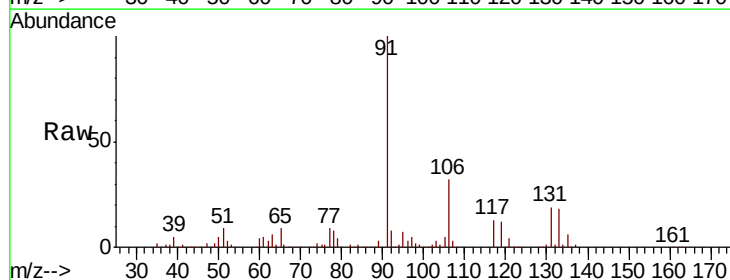
Manual Integrations
APPROVED

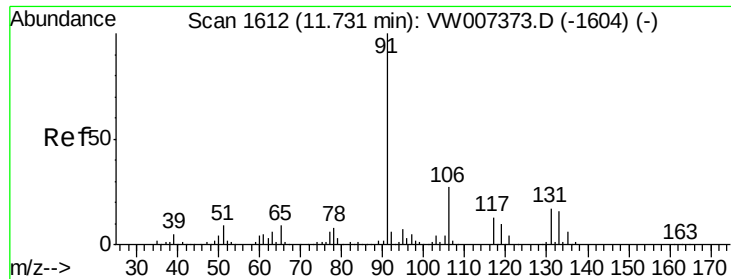
MMDadoda
12/14/2018 11:24:57 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 50.927 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.5	47.1	141.4
119	64.0	31.3	93.9





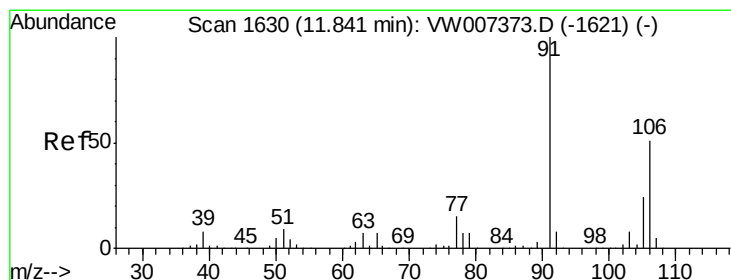
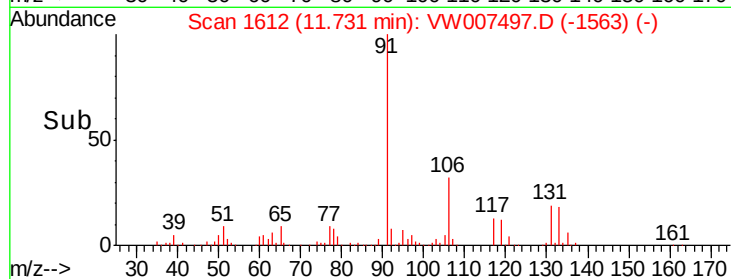
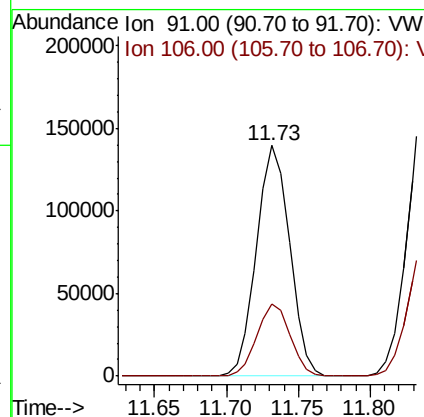
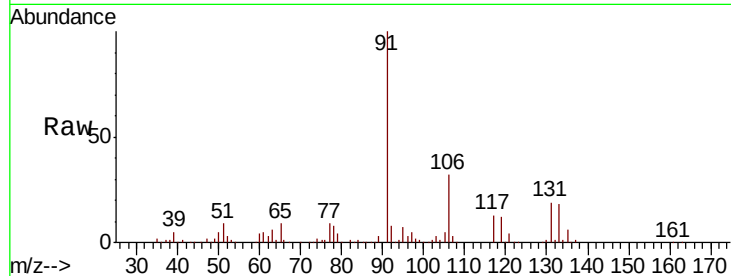
#67
Ethyl Benzene
Concen: 52.205 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 222564
Ion Ratio Lower Upper
91 100
106 31.5 21.8 32.8

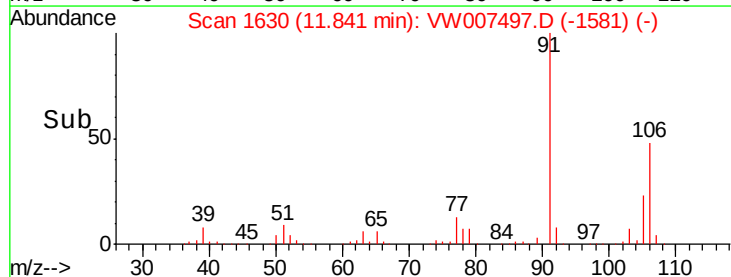
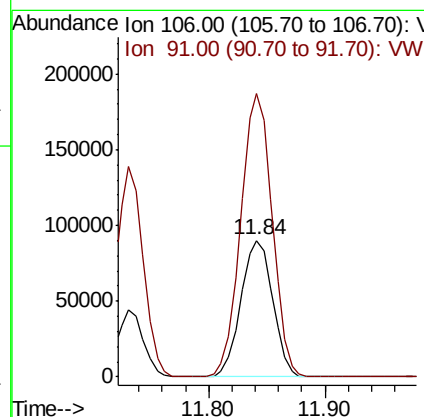
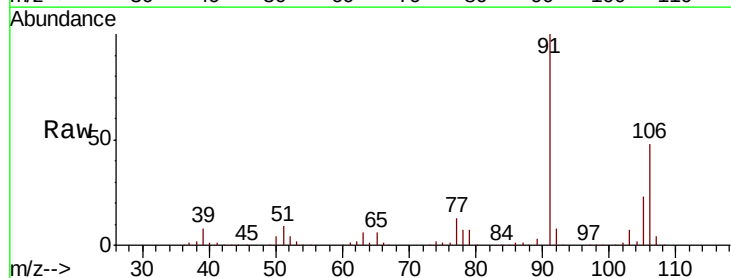
Manual Integrations
APPROVED

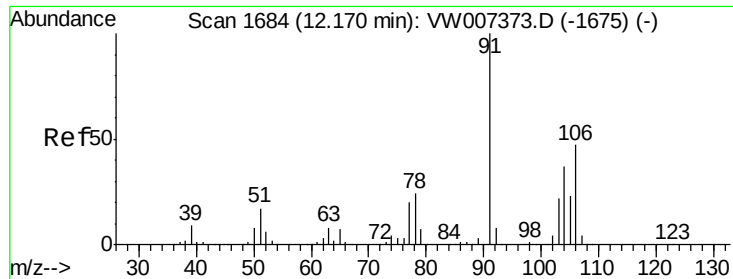
MMDadoda
12/14/2018 11:24:57 AM



#68
m/p-Xylenes
Concen: 103.396 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Tgt Ion: 106 Resp: 171365
Ion Ratio Lower Upper
106 100
91 205.4 165.3 247.9





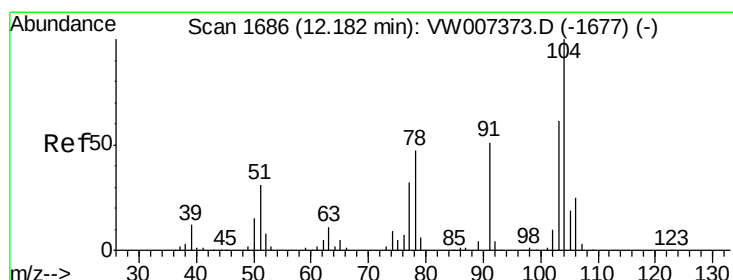
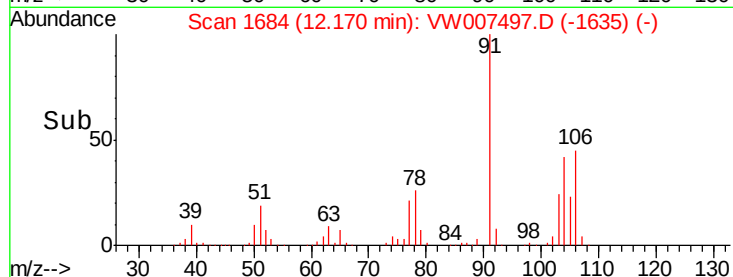
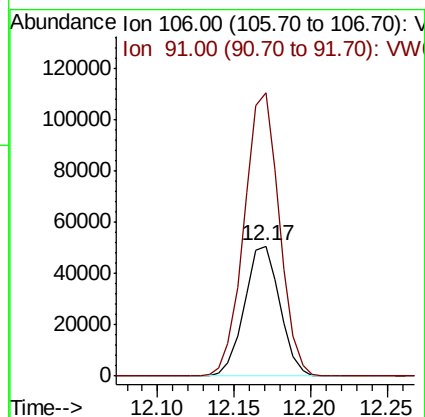
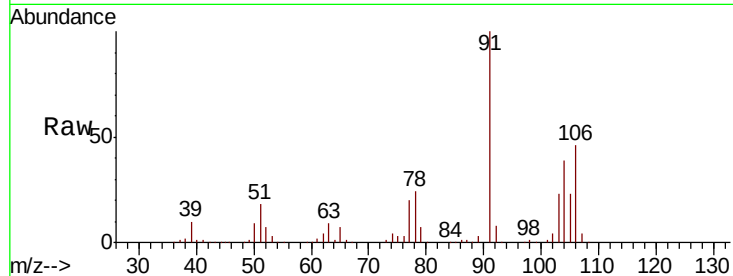
#69
o-Xylene
Concen: 52.568 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 81368
Ion Ratio Lower Upper
106 100
91 216.5 106.6 319.8

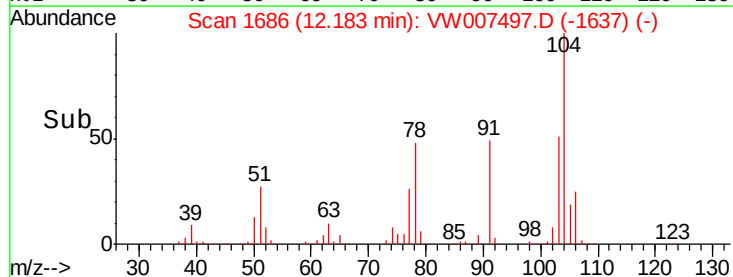
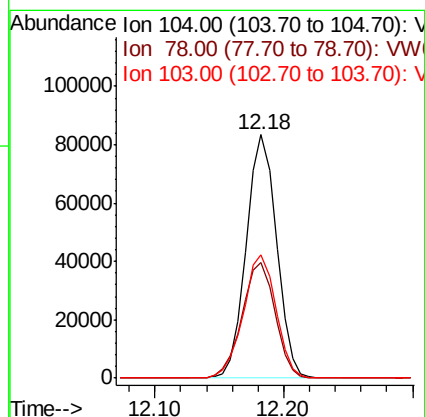
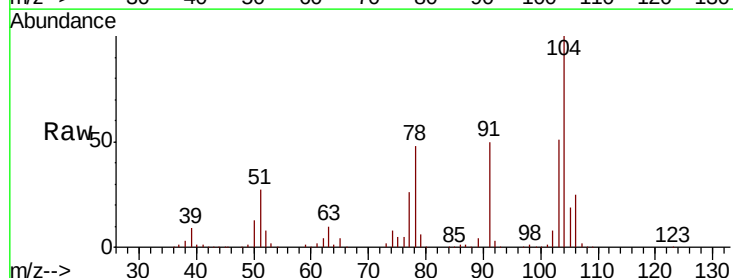
Manual Integrations
APPROVED

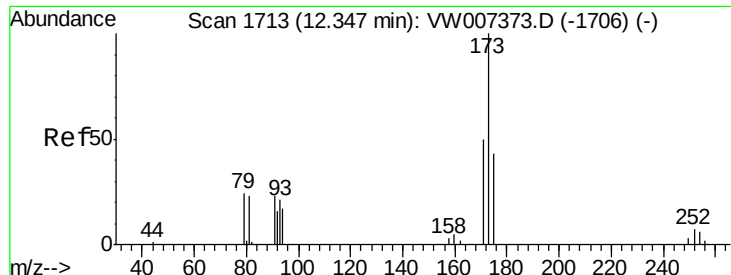
MMDadoda
12/14/2018 11:24:57 AM



#70
Styrene
Concen: 54.185 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Tgt Ion:104 Resp: 135469
Ion Ratio Lower Upper
104 100
78 51.9 41.8 62.8
103 54.7 46.6 69.8





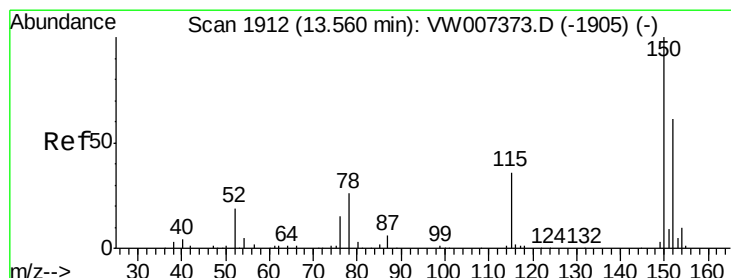
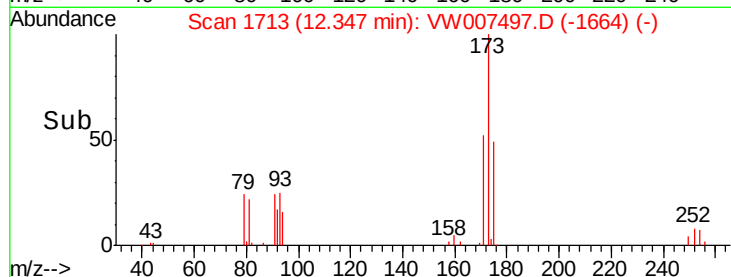
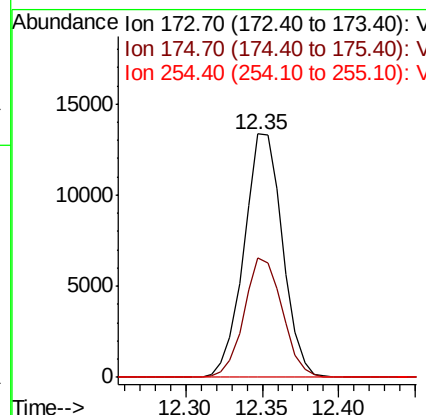
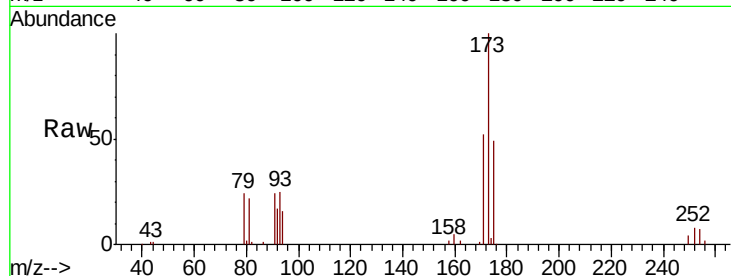
#71
Bromoform
Concen: 52.305 ug/l
RT: 12.35 min Scan# 1713
Delta R.T. 0.00 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.5	23.6	70.8
254	0.0	0.0	0.0

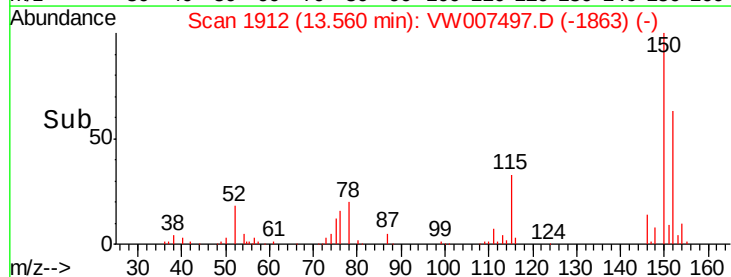
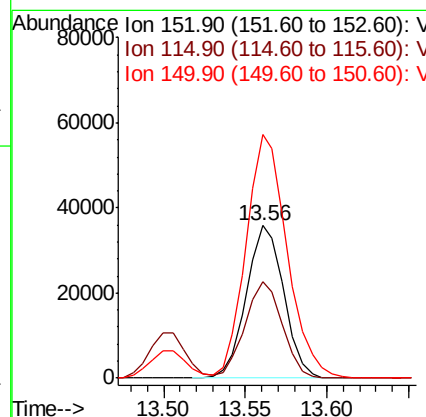
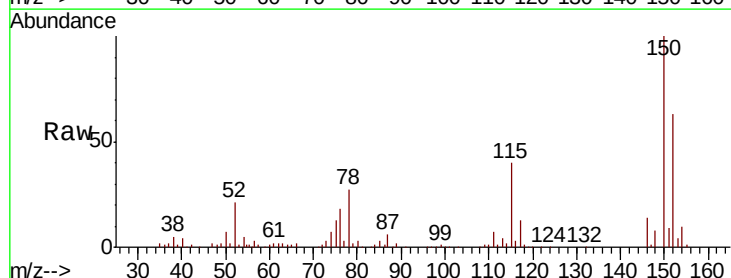
Manual Integrations
APPROVED

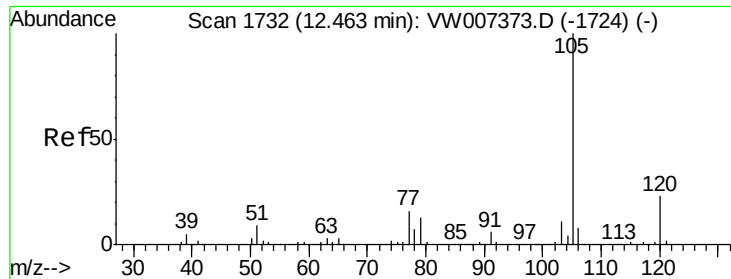
MMDadoda
12/14/2018 11:24:57 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Tgt Ion	Ratio	Lower	Upper
152	100		
115	63.3	31.4	94.2
150	175.3	0.0	358.4





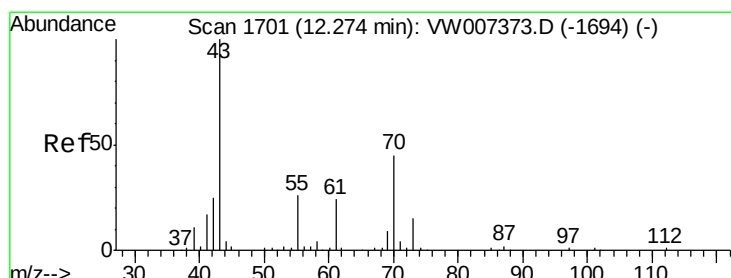
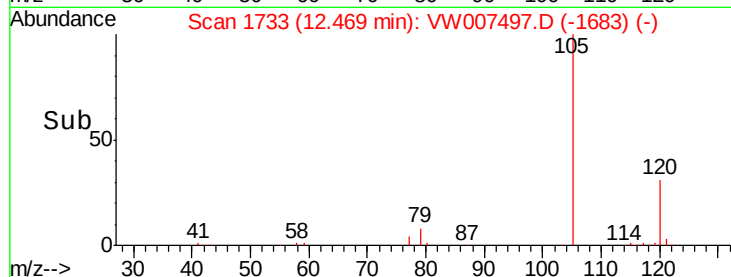
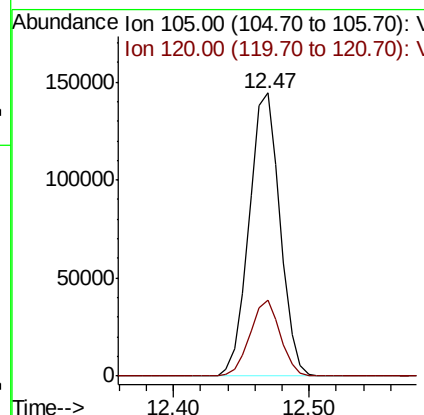
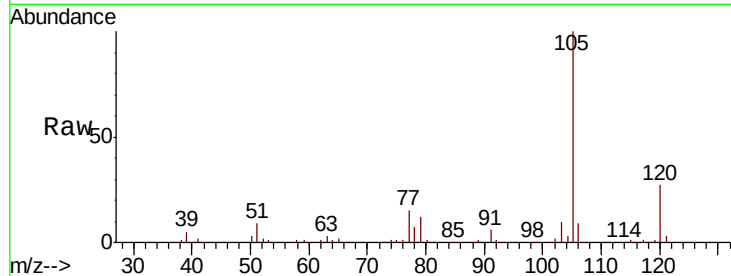
#73
Isopropylbenzene
Concen: 52.580 ug/l
RT: 12.47 min Scan# 1733
Delta R.T. 0.01 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion: 105 Resp: 229883
Ion Ratio Lower Upper
105 100
120 26.1 12.8 38.4

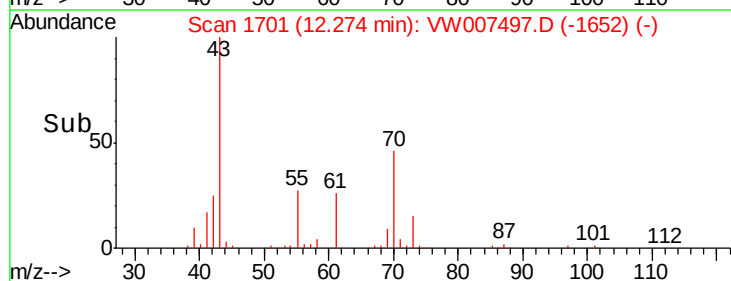
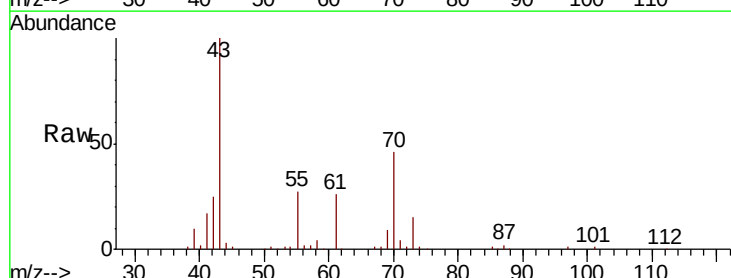
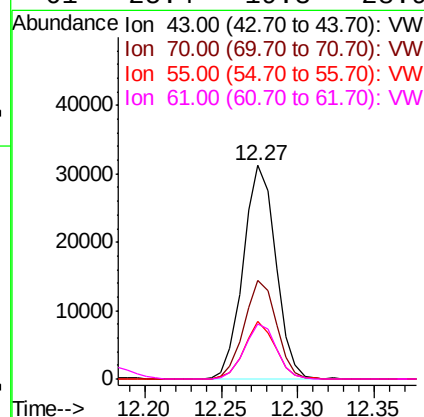
Manual Integrations
APPROVED

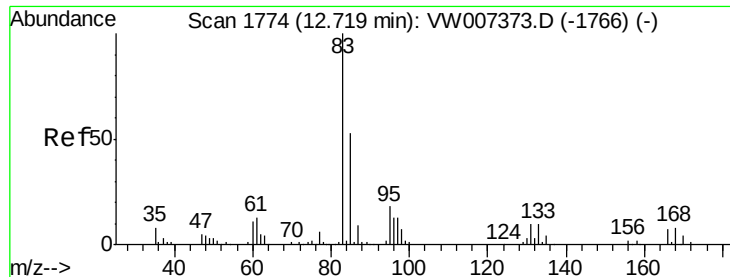
MMDadoda
12/14/2018 11:24:57 AM



#74
N-ethyl acetate
Concen: 58.349 ug/l
RT: 12.27 min Scan# 1701
Delta R.T. 0.00 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Tgt Ion: 43 Resp: 46363
Ion Ratio Lower Upper
43 100
70 45.7 36.5 54.7
55 25.5 20.1 30.1
61 25.4 19.3 28.9





#75

1,1,2,2-Tetrachloroethane

Concen: 57.762 ug/l

RT: 12.72 min Scan# 1774

Delta R.T. 0.00 min

Lab File: VW007497.D

Acq: 13 Dec 2018 20:47

Instrument :

MSVOA_W

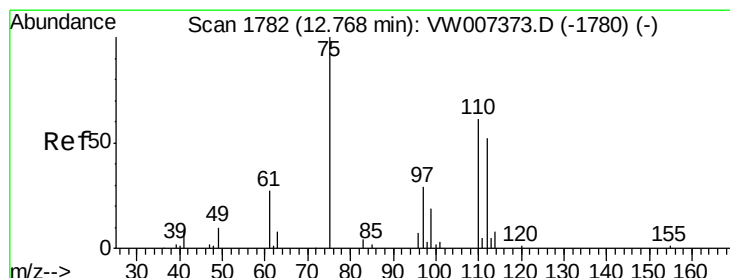
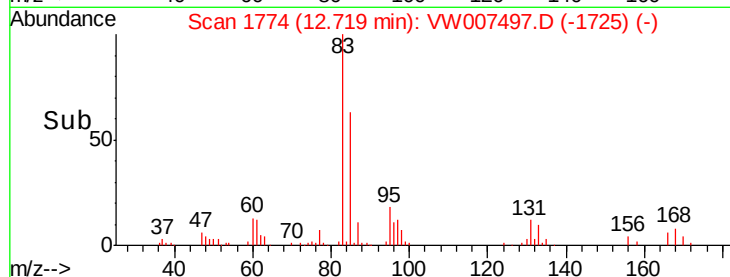
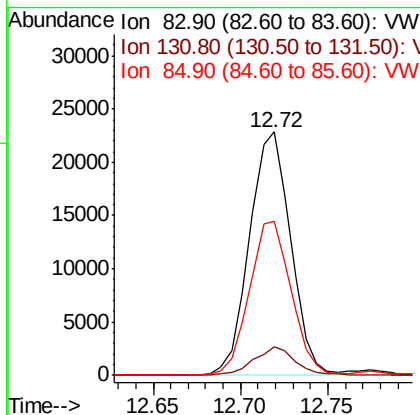
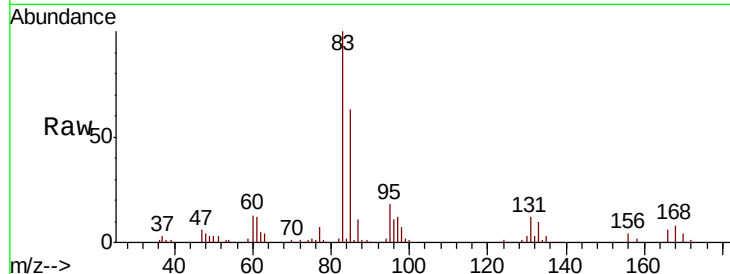
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	37404
Ion Ratio	Lower	Upper	
83	100		
131	11.9	5.9	17.8
85	64.4	30.0	90.0

Manual Integrations
APPROVED

MMDadoda
12/14/2018 11:24:57 AM



#76

1,2,3-Trichloropropane

Concen: 59.494 ug/l m

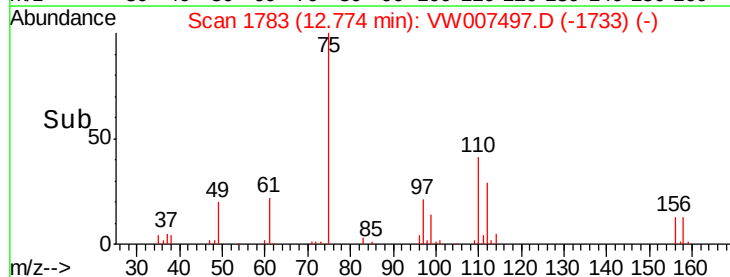
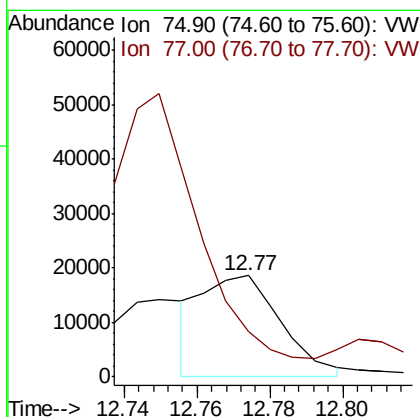
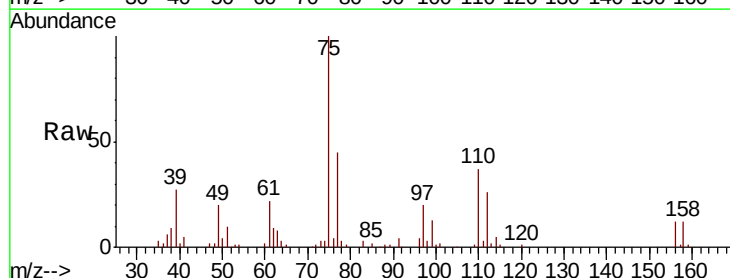
RT: 12.77 min Scan# 1783

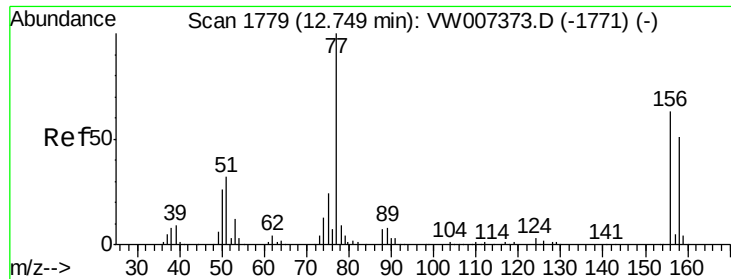
Delta R.T. 0.01 min

Lab File: VW007497.D

Acq: 13 Dec 2018 20:47

Tgt Ion:	75	Resp:	27990
Ion Ratio	Lower	Upper	
75	100		
77	0.0	166.9	500.8#





#77

Bromobenzene

Concen: 52.569 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. 0.00 min

Lab File: VW007497.D

Acq: 13 Dec 2018 20:47

Instrument :

MSVOA_W

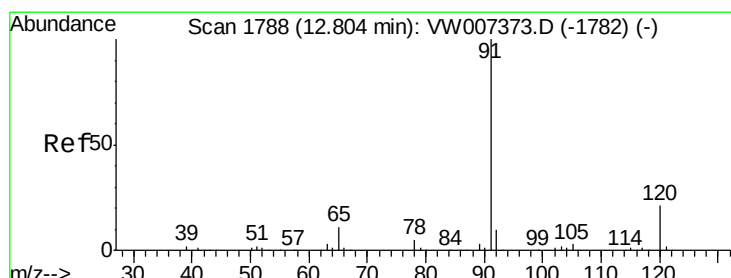
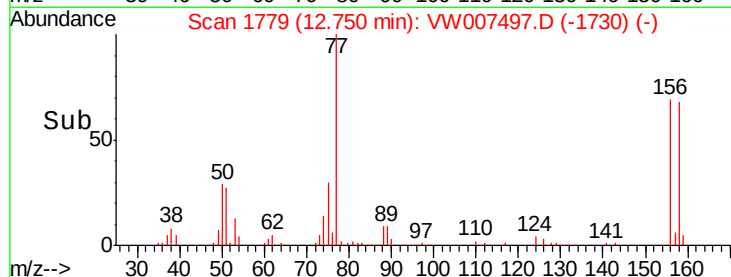
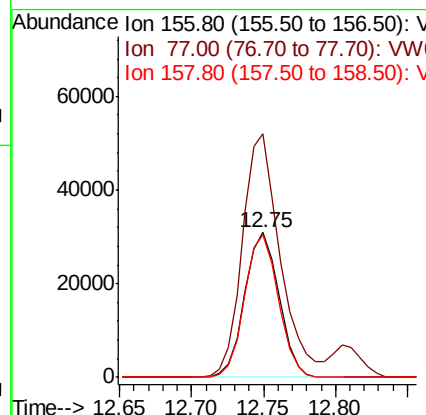
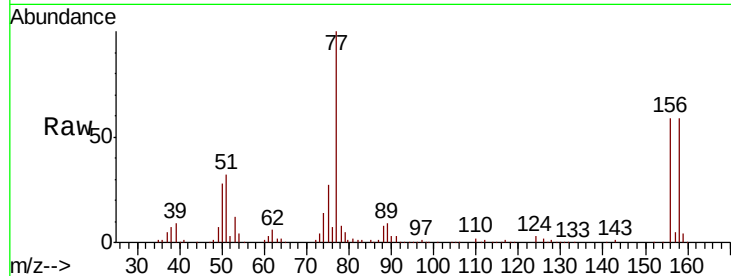
ClientSampleId :

VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	186.7	88.1	264.4	
158	96.8	45.6	136.7	

Manual Integrations
APPROVED

MMDadoda
12/14/2018 11:24:57 AM



#78

n-propylbenzene

Concen: 54.271 ug/l

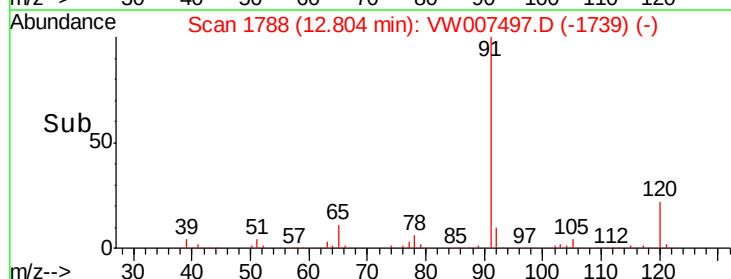
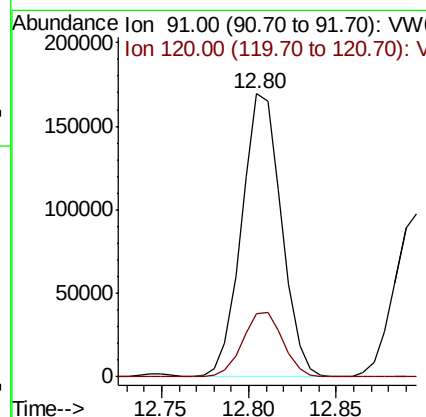
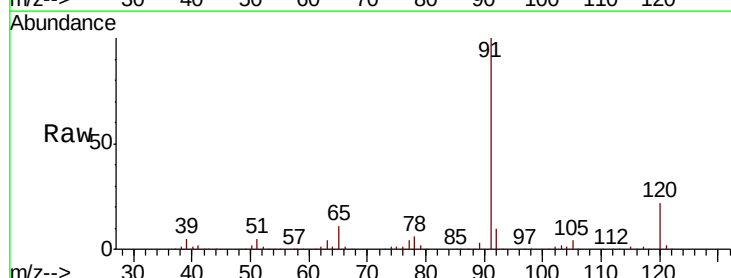
RT: 12.80 min Scan# 1788

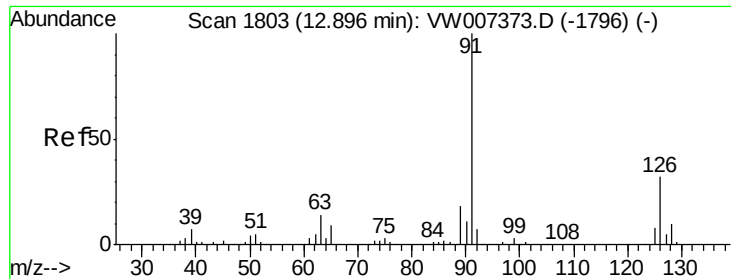
Delta R.T. 0.00 min

Lab File: VW007497.D

Acq: 13 Dec 2018 20:47

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	23.0	11.9	35.5	





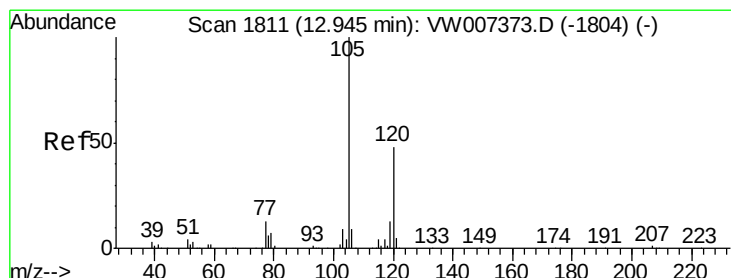
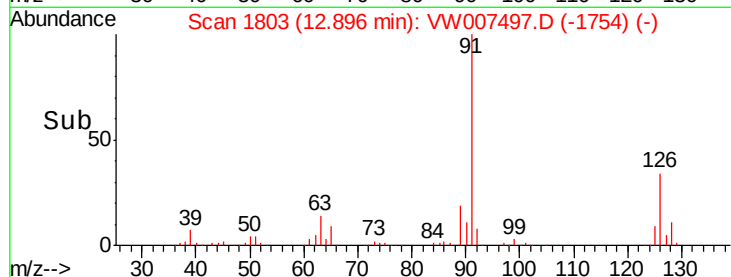
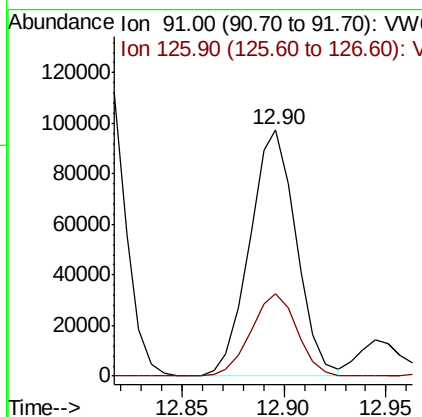
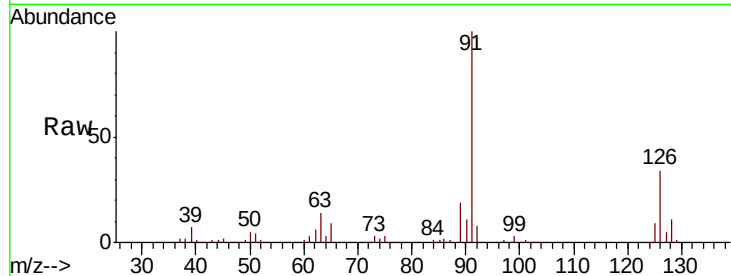
#79
 2-Chlorotoluene
 Concen: 51.975 ug/l
 RT: 12.90 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VW007497.D
 Acq: 13 Dec 2018 20:47

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
126	33.3	15.9	47.6

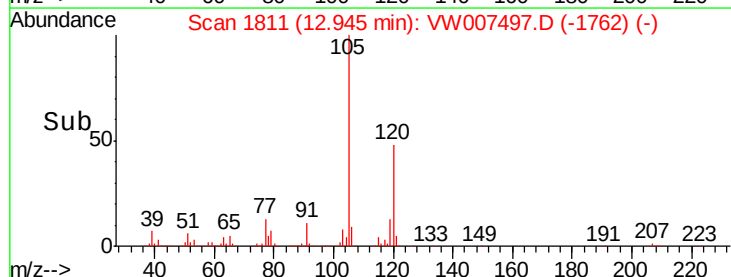
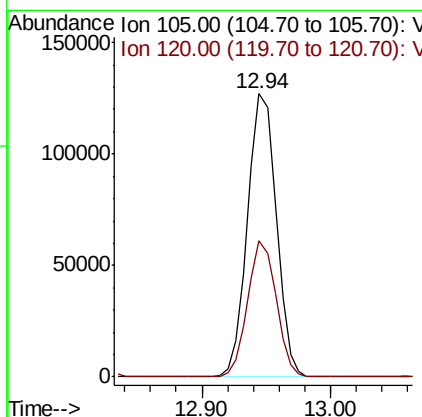
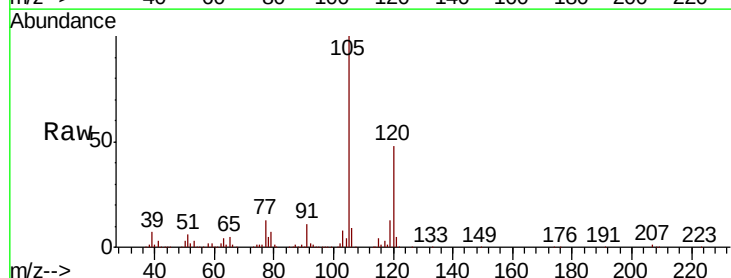
Manual Integrations
 APPROVED

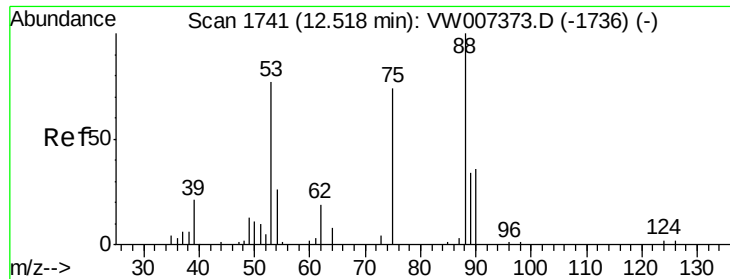
MMDadoda
 12/14/2018 11:24:57 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 53.277 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. 0.00 min
 Lab File: VW007497.D
 Acq: 13 Dec 2018 20:47

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.6	23.8	71.4





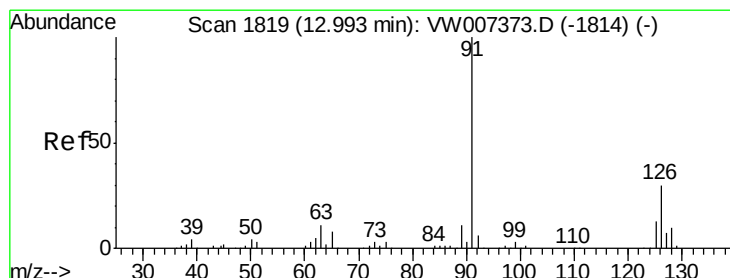
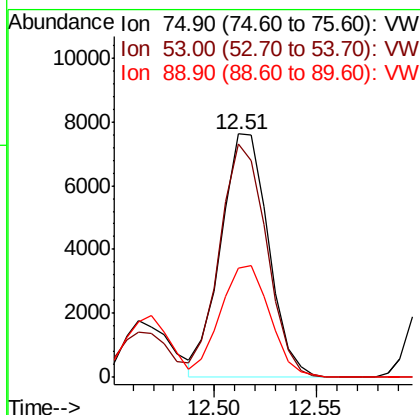
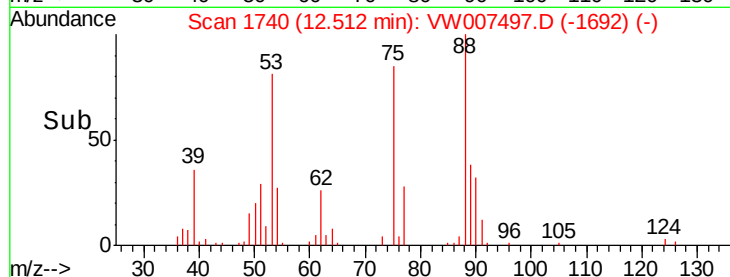
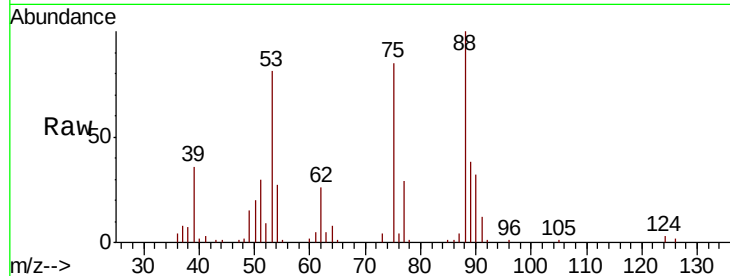
#81
trans-1,4-Dichloro-2-butene
Concen: 57.659 ug/l
RT: 12.51 min Scan# 1740
Delta R.T. -0.01 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	94.8	84.9	127.3
89	48.3	40.3	60.5

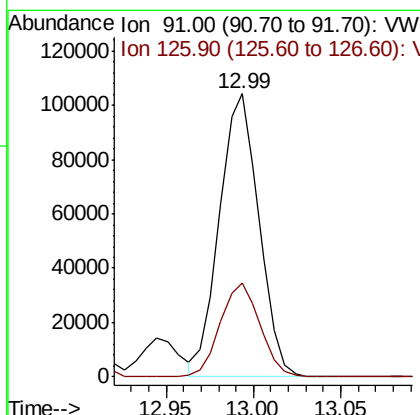
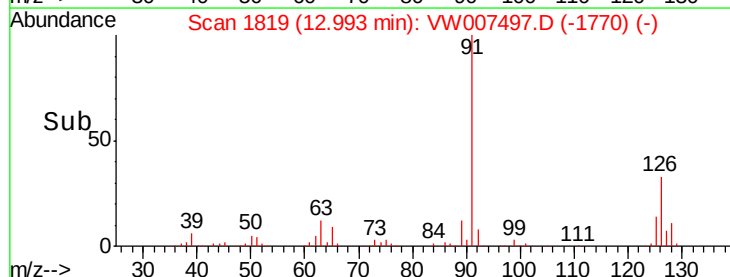
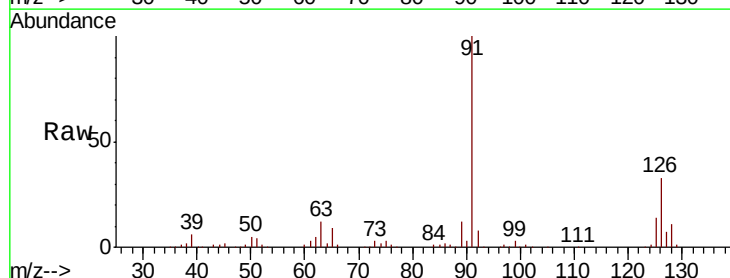
Manual Integrations
APPROVED

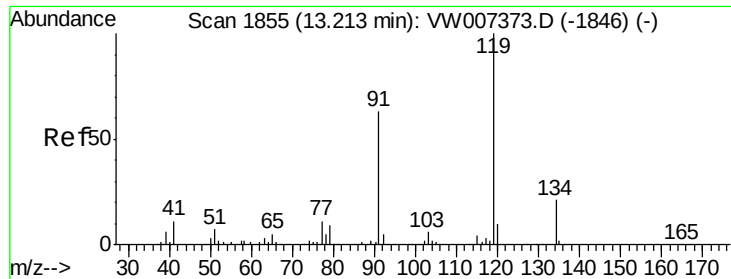
MMDadoda
12/14/2018 11:24:57 AM



#82
4-Chlorotoluene
Concen: 52.197 ug/l
RT: 12.99 min Scan# 1819
Delta R.T. 0.00 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.2	16.0	48.0





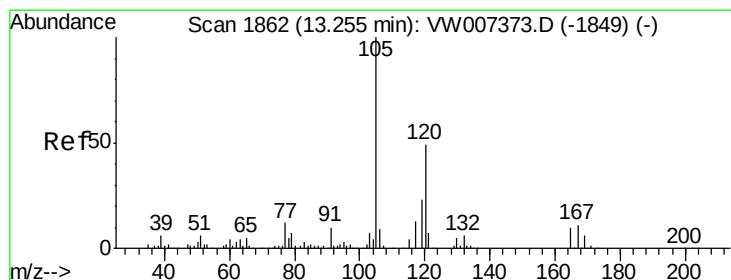
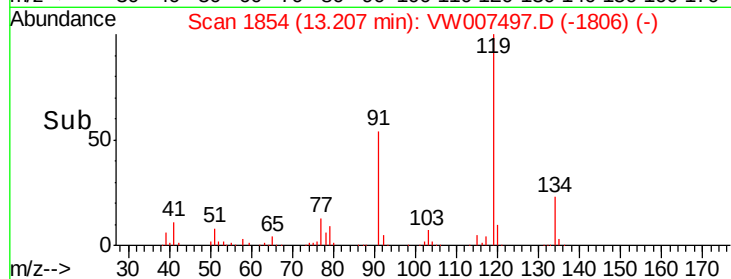
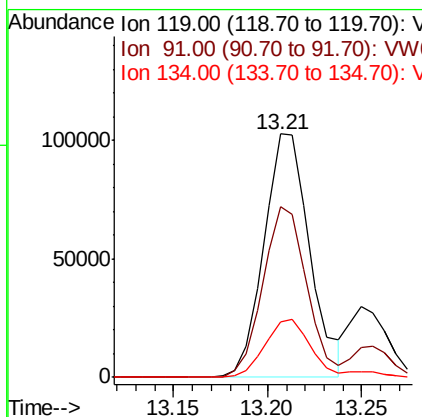
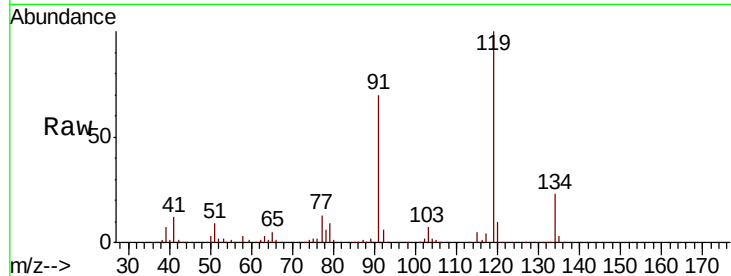
#83
 tert-Butylbenzene
 Concen: 53.644 ug/l
 RT: 13.21 min Scan# 1854
 Delta R.T. -0.01 min
 Lab File: VW007497.D
 Acq: 13 Dec 2018 20:47

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
119	100	173643		
91	66.8	33.1	99.2	
134	25.2	12.5	37.5	

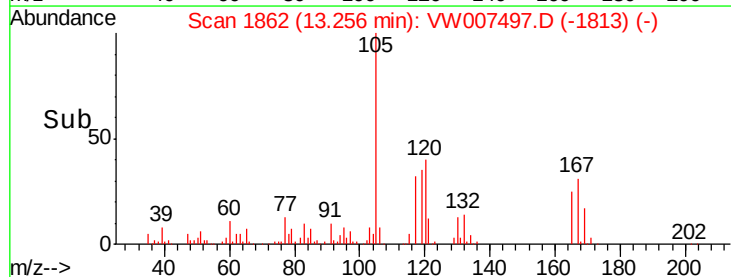
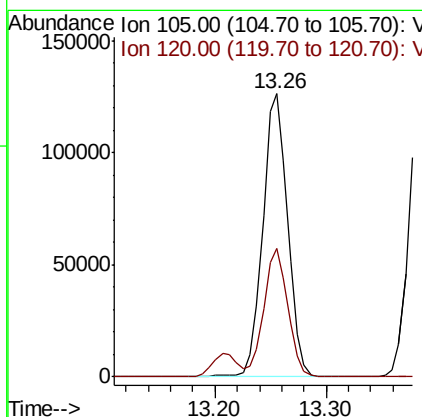
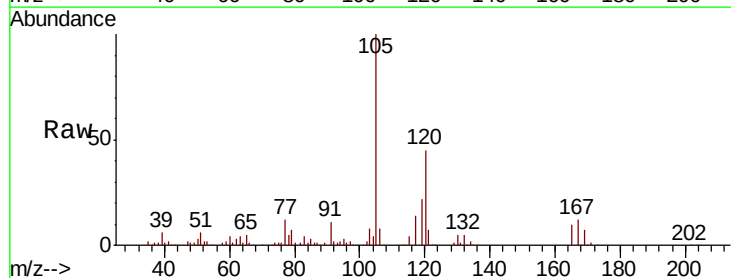
Manual Integrations
 APPROVED

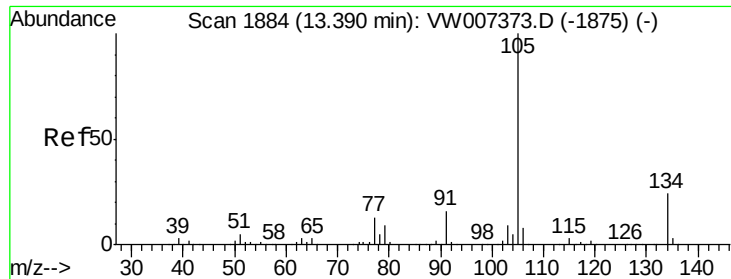
MMDadoda
 12/14/2018 11:24:57 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 52.058 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. 0.00 min
 Lab File: VW007497.D
 Acq: 13 Dec 2018 20:47

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	196797		
120	44.0	22.6	67.7	





#85

sec-Butylbenzene

Concen: 54.059 ug/l

RT: 13.39 min Scan# 1884

Delta R.T. 0.00 min

Lab File: VW007497.D

Acq: 13 Dec 2018 20:47

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 238878

Ion Ratio Lower Upper

105 100

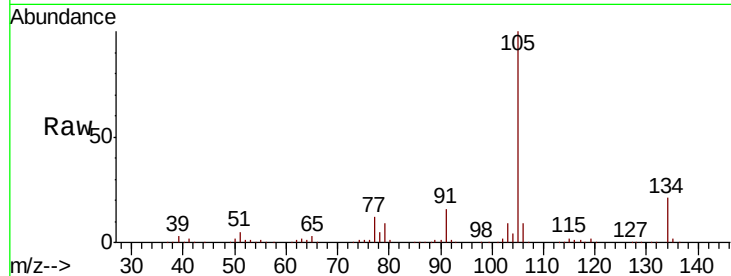
134 20.0 11.1 33.3

Manual Integrations

APPROVED

MMDadoda

12/14/2018 11:24:57 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.39

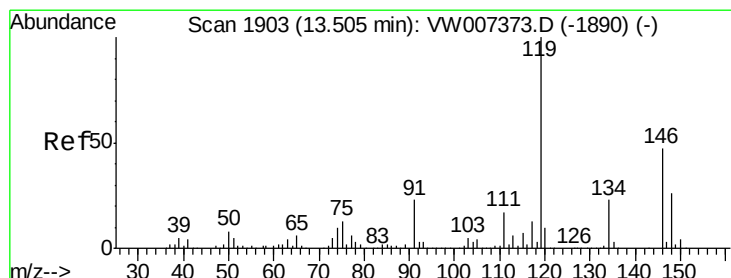
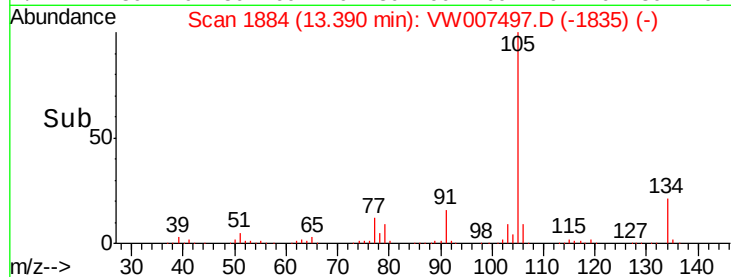
150000

100000

50000

0

Time--> 13.30 13.35 13.40 13.45



#86

p-Isopropyltoluene

Concen: 53.330 ug/l

RT: 13.51 min Scan# 1903

Delta R.T. 0.00 min

Lab File: VW007497.D

Acq: 13 Dec 2018 20:47

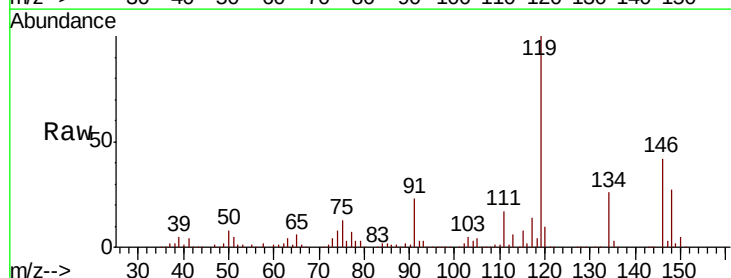
Tgt Ion:119 Resp: 211707

Ion Ratio Lower Upper

119 100

134 25.7 12.9 38.7

91 24.9 11.9 35.9



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.51

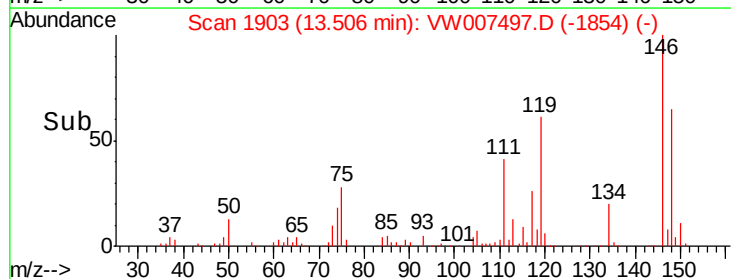
150000

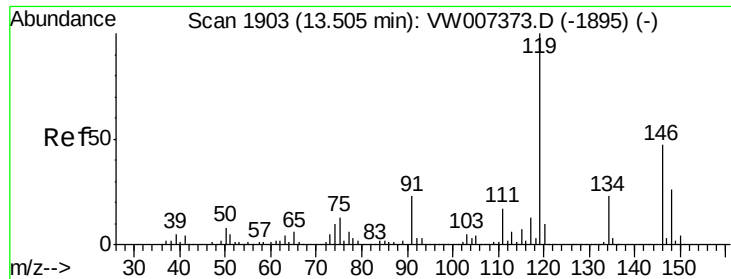
100000

50000

0

Time--> 13.45 13.50 13.55





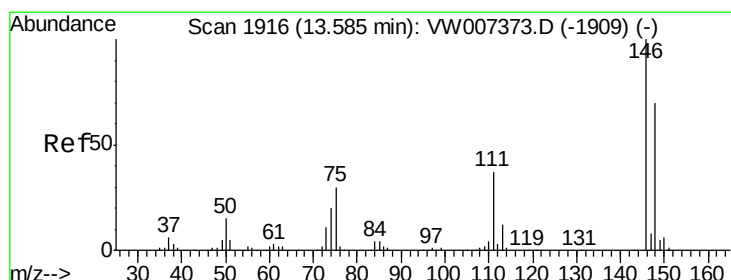
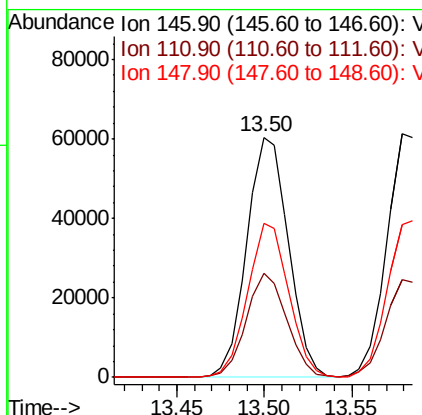
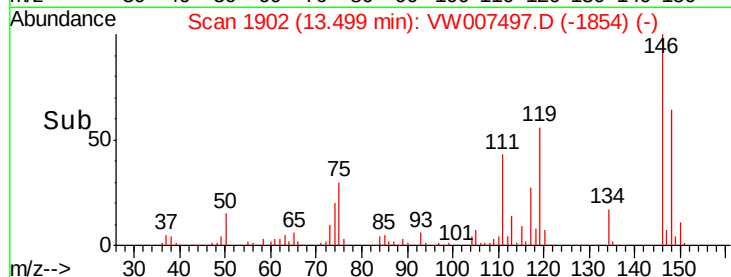
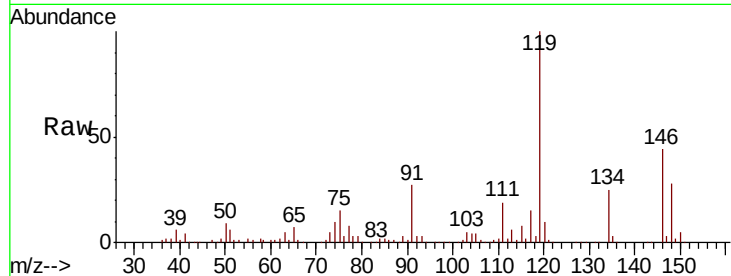
#87
 1,3-Dichlorobenzene
 Concen: 51.667 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.01 min
 Lab File: VW007497.D
 Acq: 13 Dec 2018 20:47

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.4	20.1	60.3
148	63.5	31.4	94.0

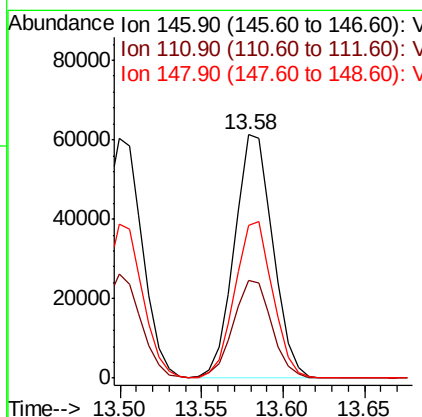
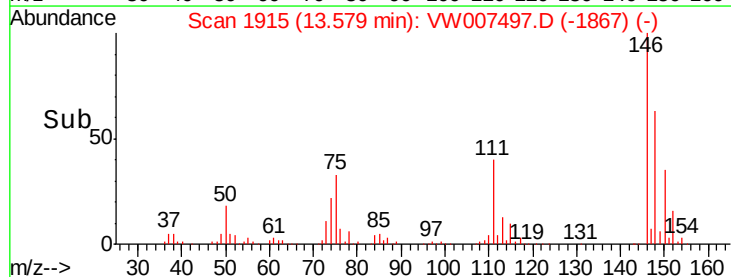
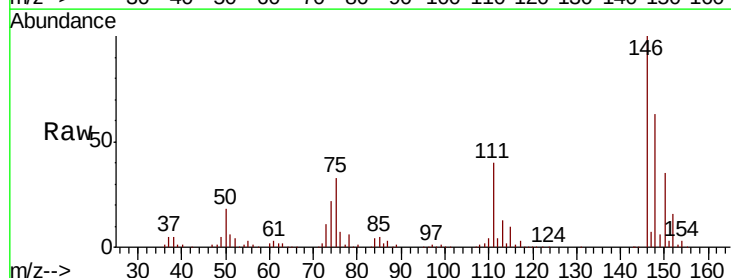
Manual Integrations
 APPROVED

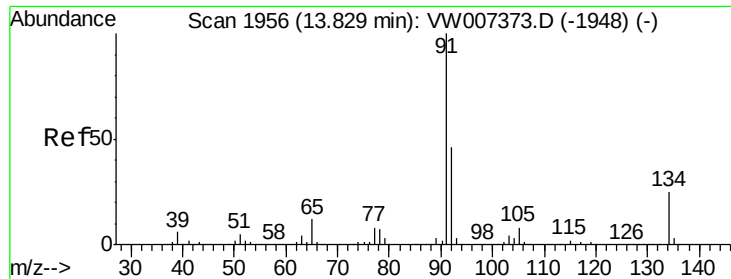
MMDadoda
 12/14/2018 11:24:57 AM



#88
 1,4-Dichlorobenzene
 Concen: 51.740 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.01 min
 Lab File: VW007497.D
 Acq: 13 Dec 2018 20:47

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.2	20.3	61.0
148	63.7	33.5	100.5





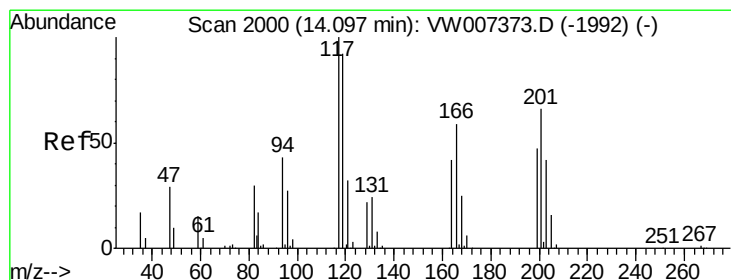
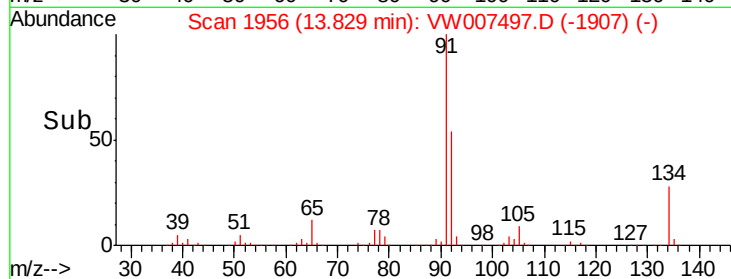
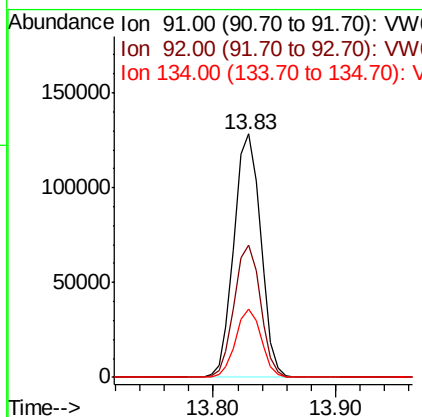
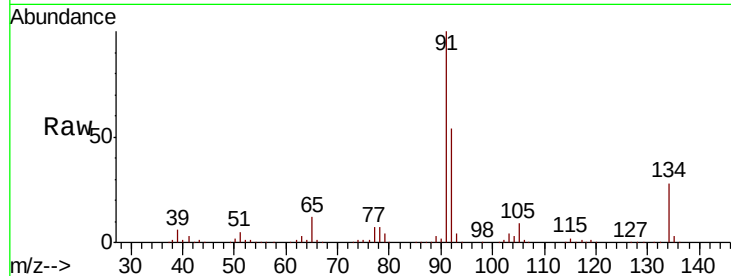
#89
n-Butylbenzene
Concen: 52.707 ug/l
RT: 13.83 min Scan# 1956
Delta R.T. 0.00 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.6	25.7	77.1
134	26.8	13.4	40.2

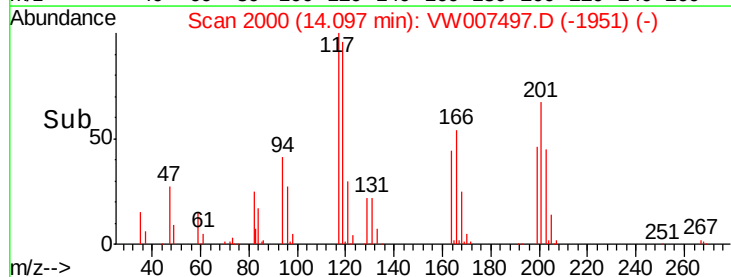
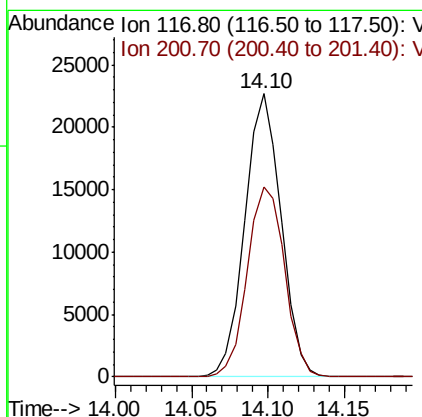
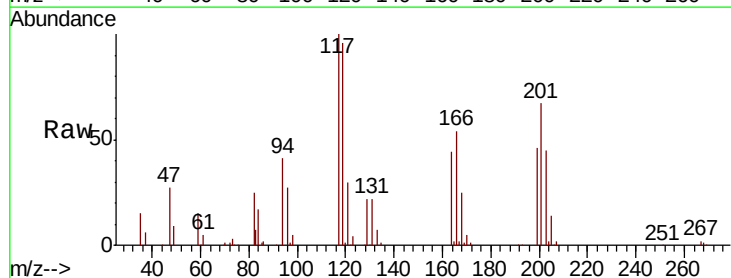
Manual Integrations
APPROVED

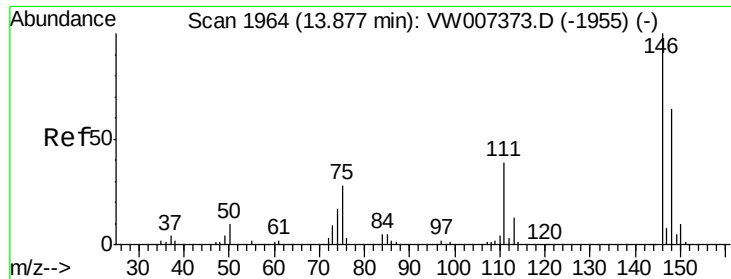
MMDadoda
12/14/2018 11:24:57 AM



#90
Hexachloroethane
Concen: 52.913 ug/l
RT: 14.10 min Scan# 2000
Delta R.T. 0.00 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Tgt Ion	Ratio	Lower	Upper
117	100		
201	68.9	35.3	105.9





#91

1,2-Dichlorobenzene

Concen: 52.537 ug/l

RT: 13.88 min Scan# 1964

Delta R.T. 0.00 min

Lab File: VW007497.D

Acq: 13 Dec 2018 20:47

Instrument :

MSVOA_W

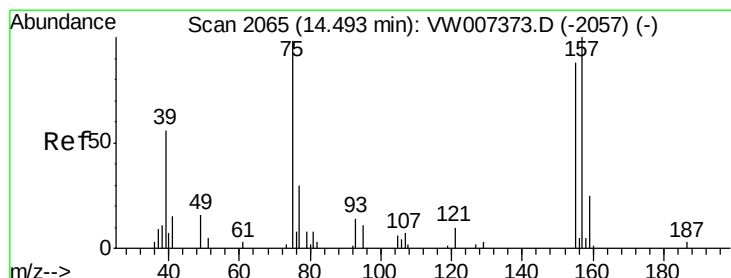
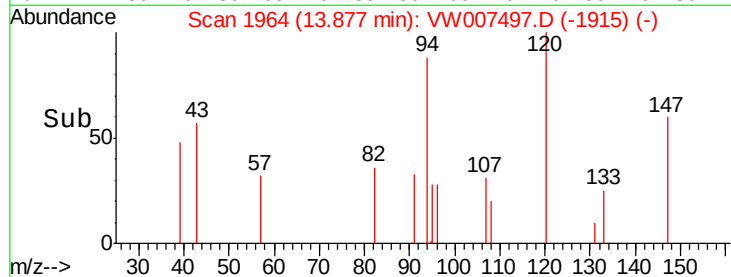
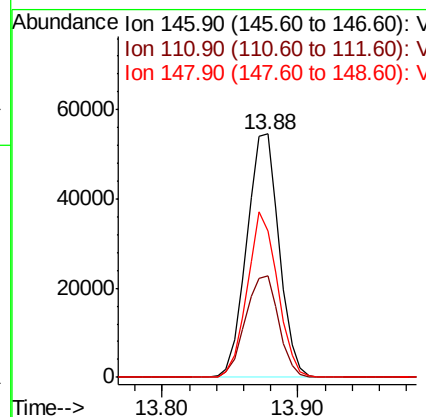
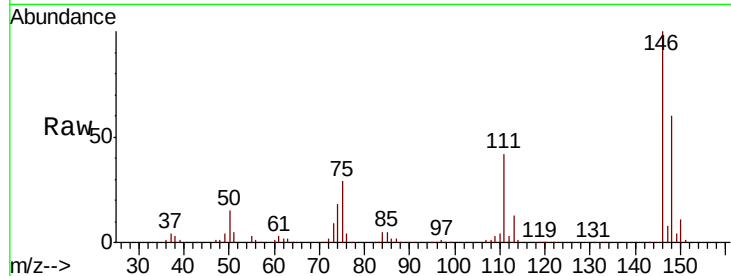
ClientSampleId :

VSTDCCC050

Tot Ion:	146	Resp:	90921
Ion Ratio	Lower	Upper	
146	100		
111	42.7	22.4	67.2
148	63.7	32.4	97.2

Manual Integrations
APPROVED

MMDadoda
12/14/2018 11:24:57 AM



#92

1,2-Dibromo-3-Chloropropane

Concen: 56.290 ug/l

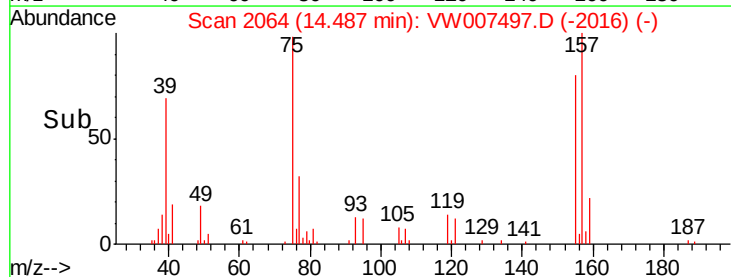
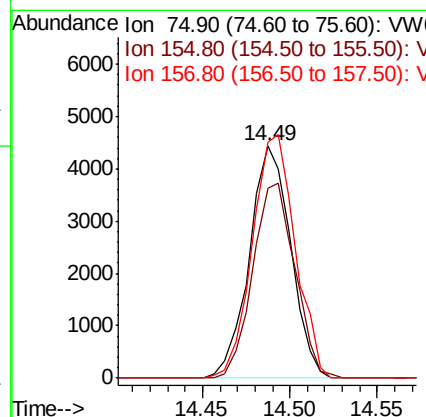
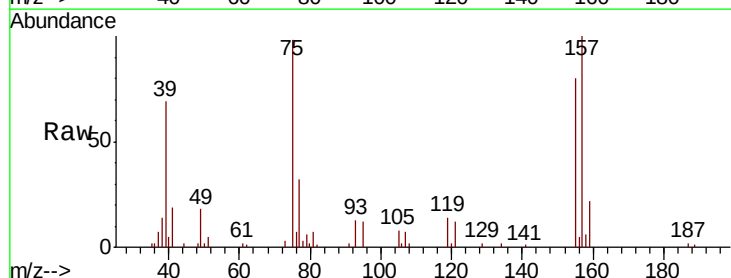
RT: 14.49 min Scan# 2064

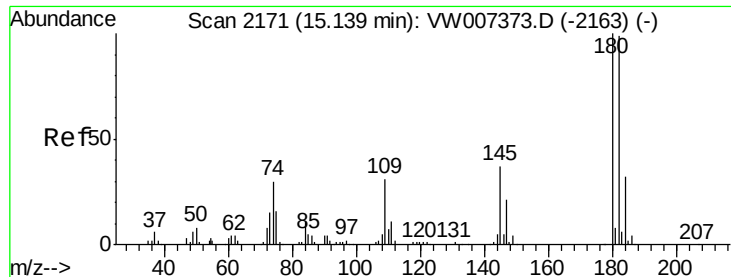
Delta R.T. -0.01 min

Lab File: VW007497.D

Acq: 13 Dec 2018 20:47

Tgt Ion:	75	Resp:	7315
Ion Ratio	Lower	Upper	
75	100		
155	84.9	40.8	122.2
157	108.3	51.1	153.4





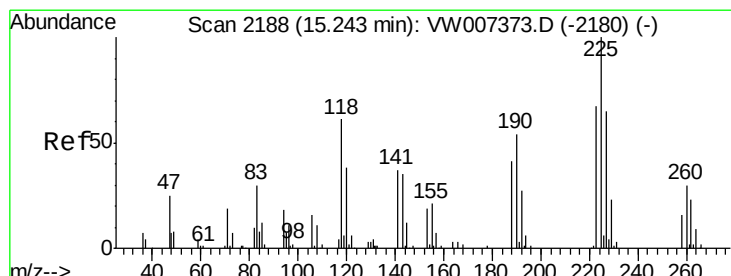
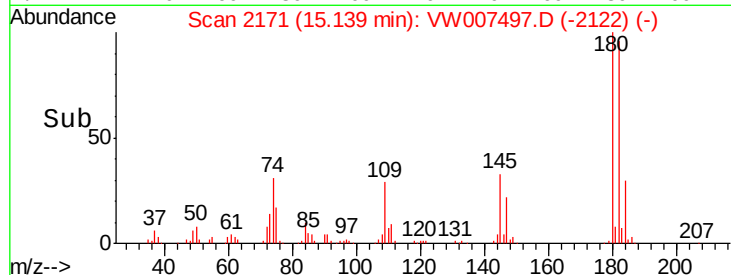
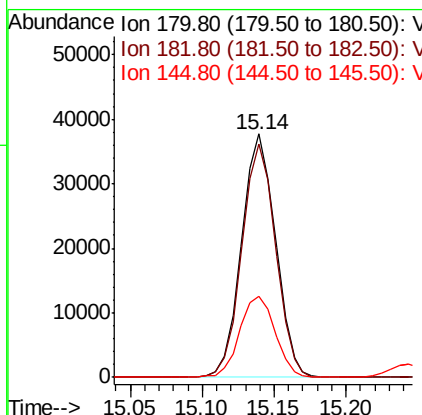
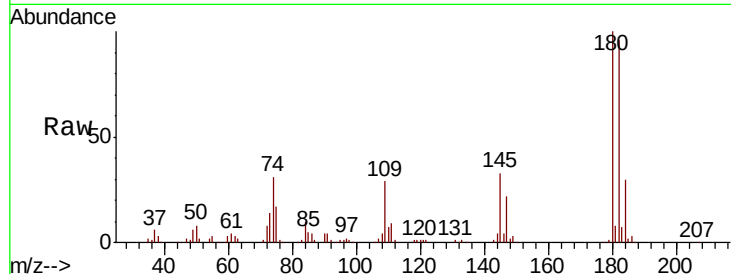
#93
 1,2,4-Trichlorobenzene
 Concen: 51.699 ug/l
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.00 min
 Lab File: VW007497.D
 Acq: 13 Dec 2018 20:47

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	61573		
182	95.4	49.9	149.6	
145	34.6	17.8	53.4	

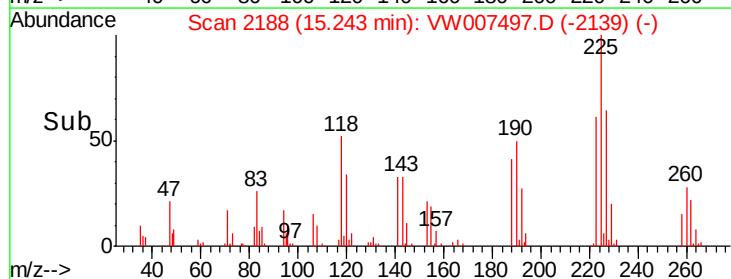
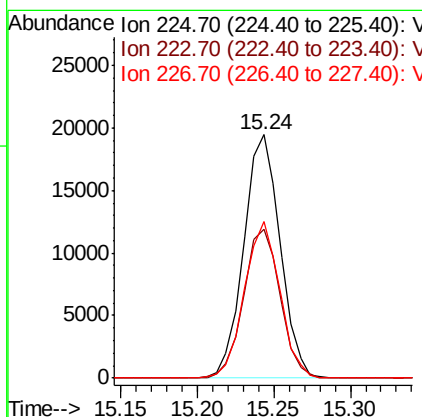
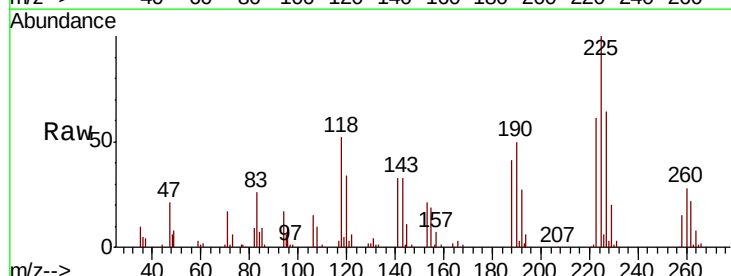
Manual Integrations
 APPROVED

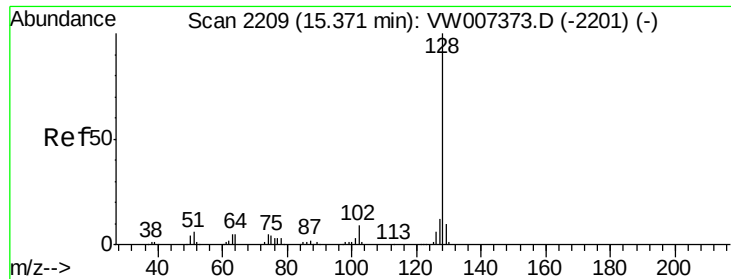
MMDadoda
 12/14/2018 11:24:57 AM



#94
 Hexachlorobutadiene
 Concen: 50.867 ug/l
 RT: 15.24 min Scan# 2188
 Delta R.T. 0.00 min
 Lab File: VW007497.D
 Acq: 13 Dec 2018 20:47

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	32144		
223	61.5	32.1	96.3	
227	62.6	31.9	95.9	





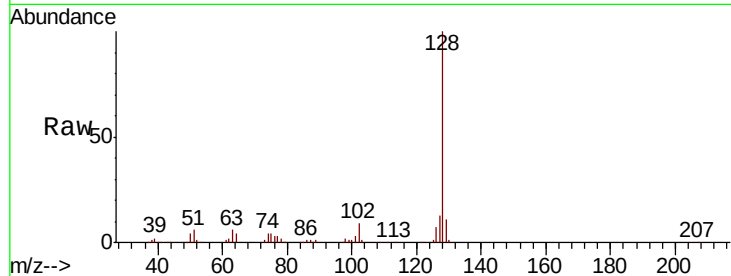
#95
Naphthalene
Concen: 57.163 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.2	15.4
129	10.7	8.3	12.5

Manual Integrations
APPROVED

MMDadoda
12/14/2018 11:24:57 AM

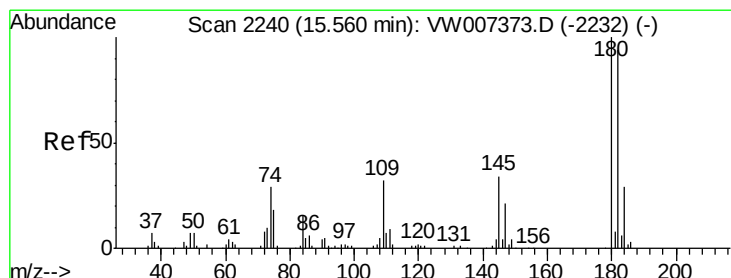
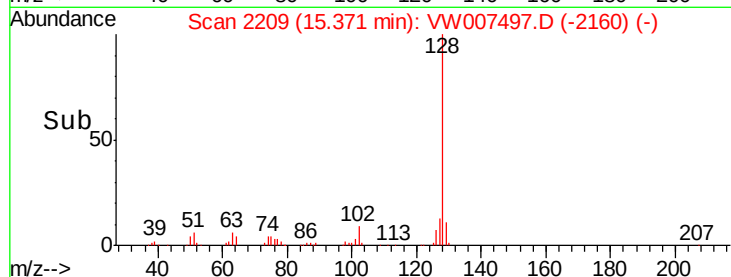
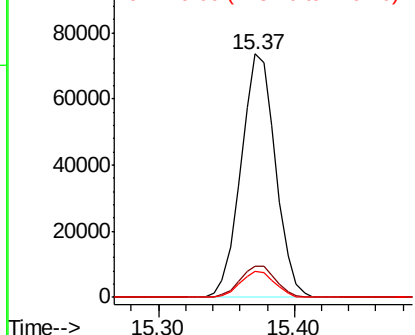


Abundance

Ion 128.00 (127.70 to 128.70): V

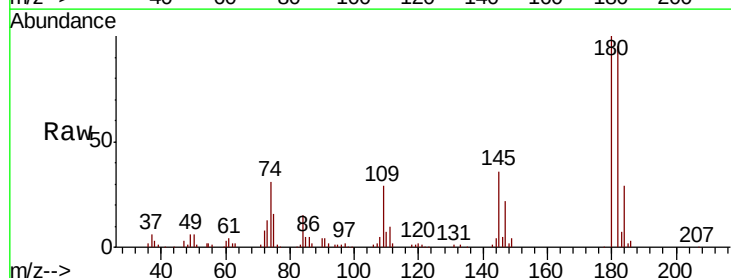
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 52.602 ug/l
RT: 15.56 min Scan# 2240
Delta R.T. 0.00 min
Lab File: VW007497.D
Acq: 13 Dec 2018 20:47

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.7	45.6	136.7
145	35.9	17.5	52.5



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

