

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW121618\
 Data File : VW007476.D
 Acq On : 13 Dec 2018 09:59
 Operator : SY/AP
 Sample : VW1216SBS01
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 54 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1216SBS01

Manual Integrations
 APPROVED

MMDadoda
 12/24/2018 12:18:14 PM

Quant Time: Dec 13 11:40:06 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	77748	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	134106	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	119528	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	60681	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	42186	48.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.82%	
35) Dibromofluoromethane	7.88	113	39878	49.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.24%	
50) Toluene-d8	10.32	98	153759	50.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.04%	
62) 4-Bromofluorobenzene	12.62	95	58266	52.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.12%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	11613	21.375	ug/l 90
3) Chloromethane	2.21	50	9501	20.880	ug/l 97
4) Vinyl Chloride	2.37	62	11583	21.692	ug/l 90
5) Bromomethane	2.78	94	7806	21.757	ug/l 97
6) Chloroethane	2.92	64	6227	21.185	ug/l 90
7) Trichlorofluoromethane	3.25	101	9093	18.941	ug/l 94
8) Diethyl Ether	3.68	74	7500	19.960	ug/l 96
9) 1,1,2-Trichlorotrifluoroet	4.06	101	15956	20.143	ug/l 99
10) Methyl Iodide	4.26	142	27620	21.053	ug/l 98
11) Tert butyl alcohol	5.18	59	6276	105.944	ug/l 95
12) 1,1-Dichloroethene	4.03	96	15914	20.866	ug/l 93
13) Acrolein	3.89	56	3397	86.662	ug/l 98
14) Allyl chloride	4.66	41	22447	19.967	ug/l 100
15) Acrylonitrile	5.37	53	16061	101.396	ug/l 99
16) Acetone	4.12	43	13764	91.357	ug/l 98
17) Carbon Disulfide	4.37	76	47619	20.592	ug/l 96
18) Methyl Acetate	4.67	43	9221	22.550	ug/l 97
19) Methyl tert-butyl Ether	5.43	73	24469	21.267	ug/l 99
20) Methylene Chloride	4.92	84	19433	21.341	ug/l 92
21) trans-1,2-Dichloroethene	5.42	96	17647	20.684	ug/l 95
22) Diisopropyl ether	6.31	45	44951	20.802	ug/l 95
23) Vinyl Acetate	6.26	43	120095	99.362	ug/l 98
24) 1,1-Dichloroethane	6.21	63	30364	20.791	ug/l 99
25) 2-Butanone	7.17	43	19315	98.200	ug/l 95
26) 2,2-Dichloropropane	7.16	77	18281	18.913	ug/l 97
27) cis-1,2-Dichloroethene	7.17	96	19531	20.907	ug/l 99
28) Bromochloromethane	7.51	49	11838	21.549	ug/l 98
29) Tetrahydrofuran	7.53	42	12682	101.849	ug/l 97
30) Chloroform	7.68	83	32687	20.566	ug/l 98
31) Cyclohexane	7.95	56	25545	19.064	ug/l # 90
32) 1,1,1-Trichloroethane	7.87	97	28242	20.263	ug/l 100
36) 1,1-Dichloropropene	8.08	75	24504	20.030	ug/l 98
37) Ethyl Acetate	7.25	43	9024	19.832	ug/l 99
38) Carbon Tetrachloride	8.07	117	26258	19.726	ug/l 95

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW121618\
 Data File : VW007476.D
 Acq On : 13 Dec 2018 09:59
 Operator : SY/AP
 Sample : VW1216SBS01
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 54 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1216SBS01

Manual Integrations
 APPROVED

MMDadoda
 12/24/2018 12:18:14 PM

Quant Time: Dec 13 11:40:06 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	29788	20.109	ug/l	95
40) Benzene	8.32	78	69465	20.461	ug/l	97
41) Methacrylonitrile	7.49	41	5833	22.512	ug/l	95
42) 1,2-Dichloroethane	8.40	62	22232	20.846	ug/l	99
43) Isopropyl Acetate	8.43	43	18412	20.485	ug/l	99
44) Trichloroethene	9.09	130	20514	21.160	ug/l	98
45) 1,2-Dichloropropane	9.37	63	16762	21.335	ug/l	100
46) Dibromomethane	9.46	93	9663	21.658	ug/l	92
47) Bromodichloromethane	9.65	83	24592	21.014	ug/l	98
48) Methyl methacrylate	9.43	41	8936	19.359	ug/l	97
49) 1,4-Dioxane	9.45	88	3299	455.710	ug/l	95
51) 4-Methyl-2-Pentanone	10.21	43	43663	102.815	ug/l	97
52) Toluene	10.39	92	46662	21.238	ug/l	100
53) t-1,3-Dichloropropene	10.60	75	23089	20.322	ug/l	99
54) cis-1,3-Dichloropropene	10.07	75	26195	19.944	ug/l	98
55) 1,1,2-Trichloroethane	10.79	97	13234	21.794	ug/l #	89
56) Ethyl methacrylate	10.65	69	15501	21.238	ug/l	99
57) 1,3-Dichloropropane	10.93	76	22083	22.157	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.93	63	33403	99.244	ug/l	99
59) 2-Hexanone	10.97	43	28981	102.343	ug/l	99
60) Dibromochloromethane	11.13	129	16374	21.367	ug/l	98
61) 1,2-Dibromoethane	11.23	107	12978	21.627	ug/l	96
64) Tetrachloroethene	10.86	164	17809	20.719	ug/l	92
65) Chlorobenzene	11.66	112	51604	20.713	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.73	131	17962	20.471	ug/l	97
67) Ethyl Benzene	11.73	91	90481	21.124	ug/l	92
68) m/p-Xylenes	11.84	106	69886	41.969	ug/l	99
69) o-Xylene	12.17	106	33413	21.485	ug/l	97
70) Styrene	12.18	104	55540	22.111	ug/l	98
71) Bromoform	12.35	173	9004	20.048	ug/l #	99
73) Isopropylbenzene	12.47	105	93237	20.053	ug/l	99
74) N-amyl acetate	12.27	43	16699	19.762	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.72	83	14241	20.679	ug/l	94
76) 1,2,3-Trichloropropane	12.77	75	8533m	17.055	ug/l	
77) Bromobenzene	12.75	156	21003	20.379	ug/l	97
78) n-propylbenzene	12.81	91	108082	20.655	ug/l	100
79) 2-Chlorotoluene	12.90	91	63657	20.105	ug/l	96
80) 1,3,5-Trimethylbenzene	12.94	105	80656	20.645	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.52	75	4101	18.106	ug/l	96
82) 4-Chlorotoluene	12.99	91	67342	20.177	ug/l	97
83) tert-Butylbenzene	13.21	119	70019	20.340	ug/l	99
84) 1,2,4-Trimethylbenzene	13.26	105	81501	20.272	ug/l	100
85) sec-Butylbenzene	13.39	105	96826	20.604	ug/l	95
86) p-Isopropyltoluene	13.51	119	86492	20.487	ug/l	99
87) 1,3-Dichlorobenzene	13.51	146	42005	20.442	ug/l	98
88) 1,4-Dichlorobenzene	13.58	146	42030	20.345	ug/l	98
89) n-Butylbenzene	13.83	91	78836	20.143	ug/l	98
90) Hexachloroethane	14.10	117	15119	20.127	ug/l	99
91) 1,2-Dichlorobenzene	13.87	146	37392	20.316	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.49	75	2797	20.239	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW121618\
Data File : VW007476.D
Acq On : 13 Dec 2018 09:59
Operator : SY/AP
Sample : VW1216SBSD01
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 54 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1216SBSD01

Manual Integrations
APPROVED

MMDadoda
12/24/2018 12:18:14 PM

Quant Time: Dec 13 11:40:06 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	25402	20.055	ug/l	97
94) Hexachlorobutadiene	15.24	225	13148	19.564	ug/l	98
95) Naphthalene	15.37	128	48609	20.061	ug/l	98
96) 1,2,3-Trichlorobenzene	15.56	180	22108	20.093	ug/l	97

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

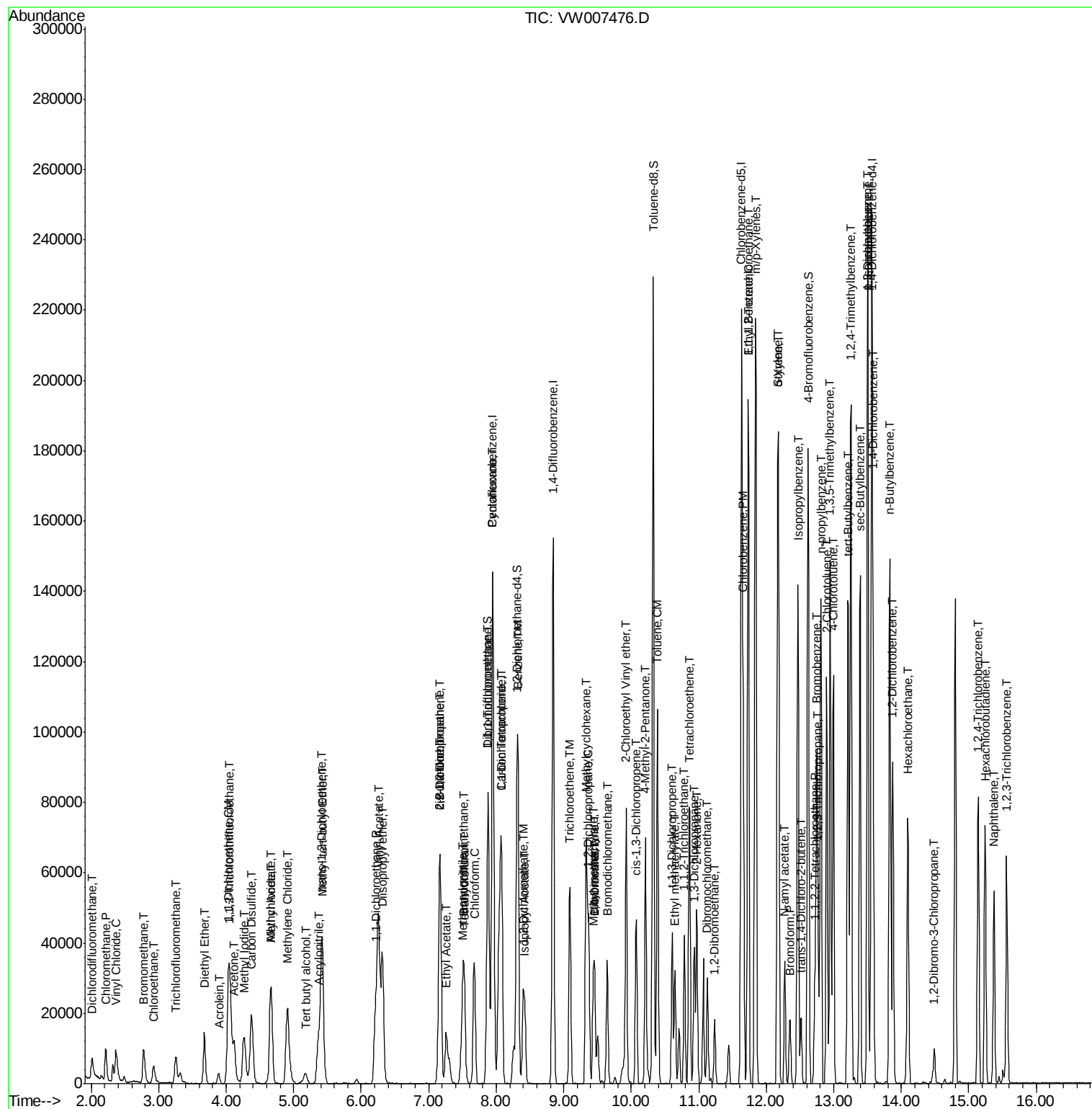
Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW121618\
Data File : VW007476.D
Acq On : 13 Dec 2018 09:59
Operator : SY/AP
Sample : VW1216SBS01
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 54 Sample Multiplier: 1

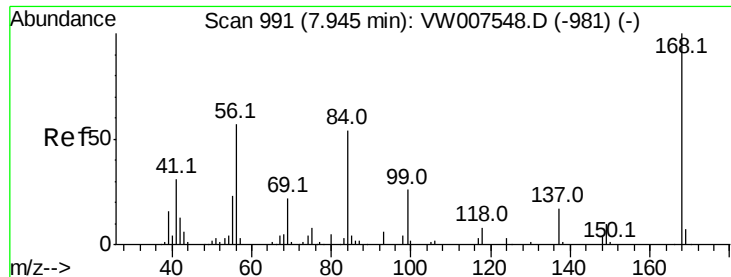
Instrument :
MSVOA_W
ClientSampleId :
VW1216SBS01

Manual Integrations
APPROVED

MMDadoda
12/24/2018 12:18:14 PM

Quant Time: Dec 13 11:40:06 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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW007476.D

Acq: 13 Dec 2018 09:59

Instrument :

MSVOA_W

ClientSampleId :

VW1216SBS01

Tot Ion:168 Resp: 77748

Ion Ratio Lower Upper

168 100

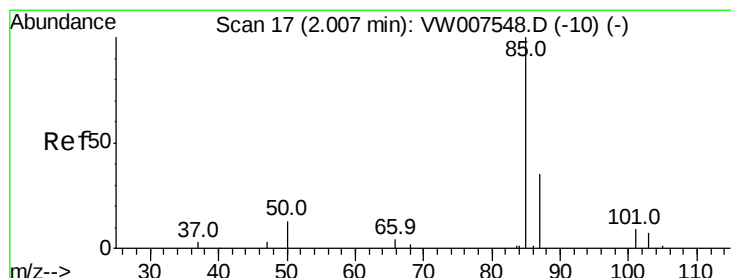
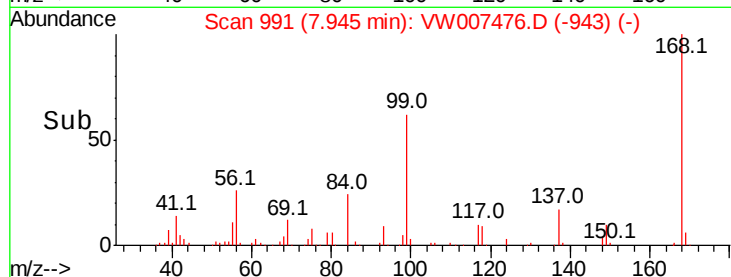
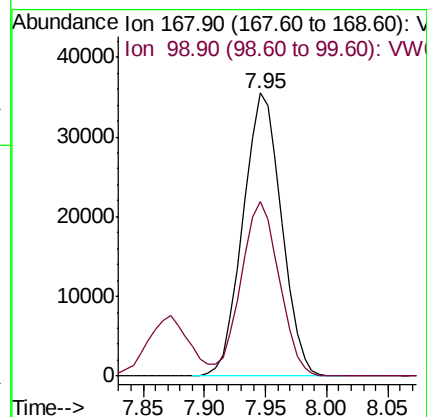
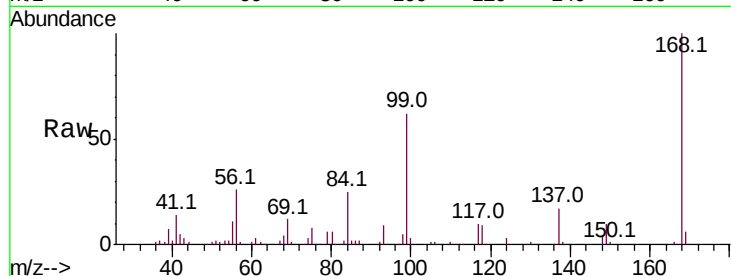
99 61.8 48.3 72.5

Manual Integrations

APPROVED

MMDadoda

12/24/2018 12:18:14 PM



#2

Dichlorodifluoromethane

Concen: 21.375 ug/l

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW007476.D

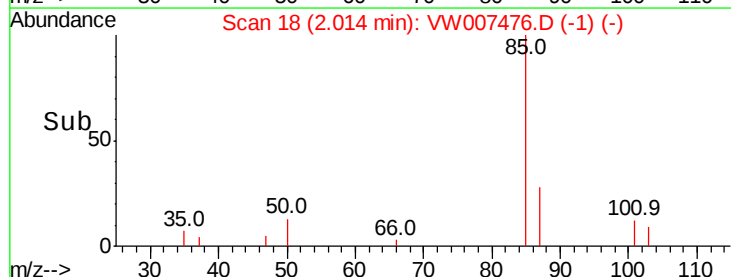
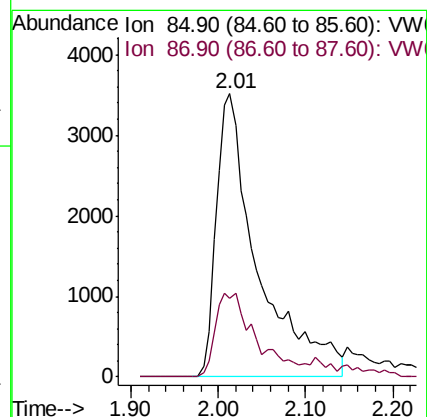
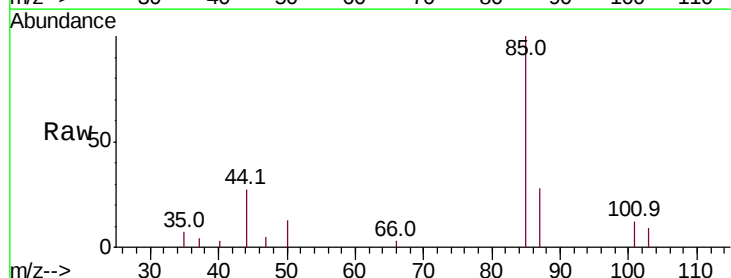
Acq: 13 Dec 2018 09:59

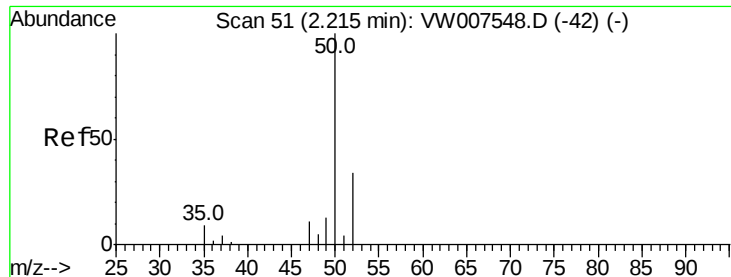
Tgt Ion: 85 Resp: 11613

Ion Ratio Lower Upper

85 100

87 27.7 16.6 49.7





#3

Chloromethane

Concen: 20.880 ug/l

RT: 2.21 min Scan# 51

Delta R.T. -0.01 min

Lab File: VW007476.D

Acq: 13 Dec 2018 09:59

Instrument :

MSVOA_W

ClientSampleId :

VW1216SBS01

Tot Ion: 50 Resp: 9501

Ion Ratio Lower Upper

50 100

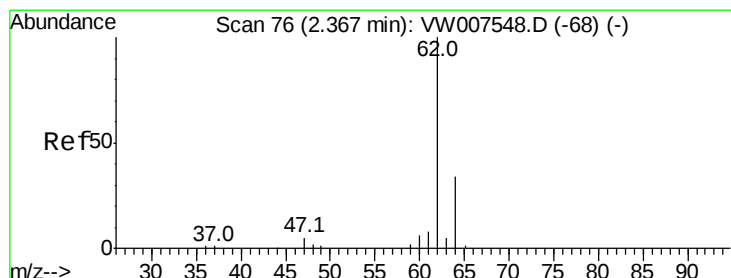
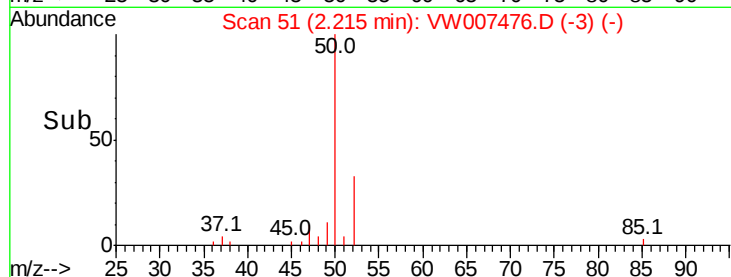
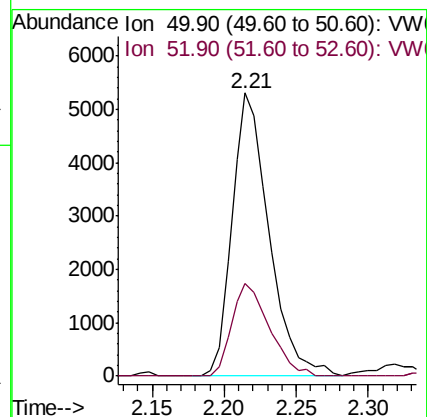
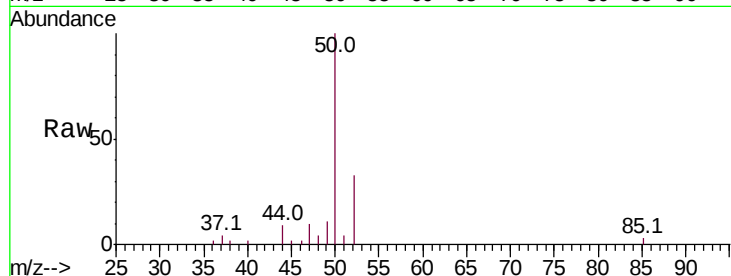
52 32.7 27.4 41.0

Manual Integrations

APPROVED

MMDadoda

12/24/2018 12:18:14 PM



#4

Vinyl Chloride

Concen: 21.692 ug/l

RT: 2.37 min Scan# 77

Delta R.T. 0.01 min

Lab File: VW007476.D

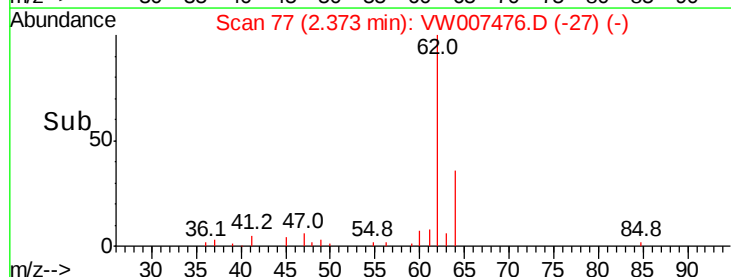
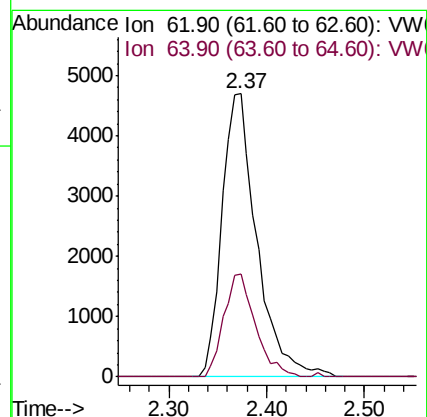
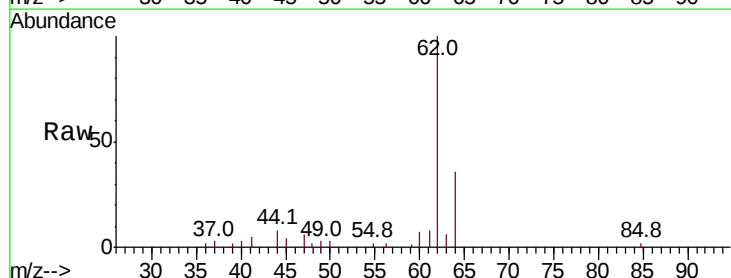
Acq: 13 Dec 2018 09:59

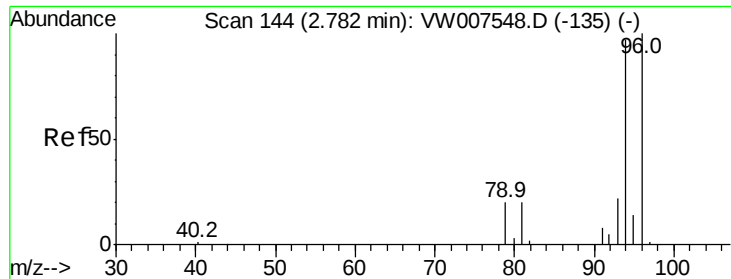
Tgt Ion: 62 Resp: 11583

Ion Ratio Lower Upper

62 100

64 36.1 24.6 37.0





#5

Bromomethane

Concen: 21.757 ug/l

RT: 2.78 min Scan# 144

Delta R.T. 0.01 min

Lab File: VW007476.D

Acq: 13 Dec 2018 09:59

Instrument :

MSVOA_W

ClientSampleId :

VW1216SBS01

Tot Ion: 94 Resp: 7806

Ion Ratio Lower Upper

94 100

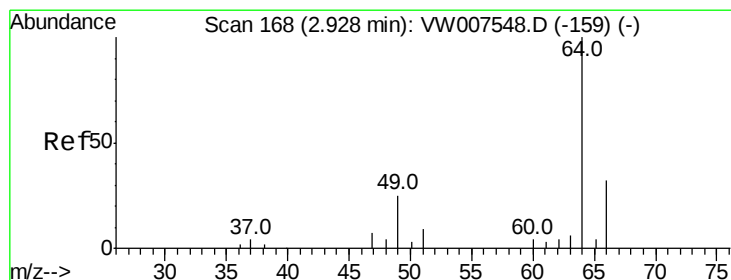
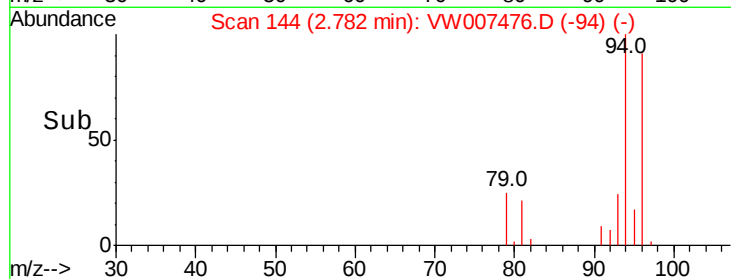
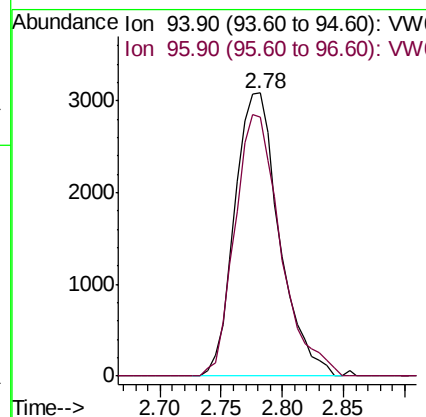
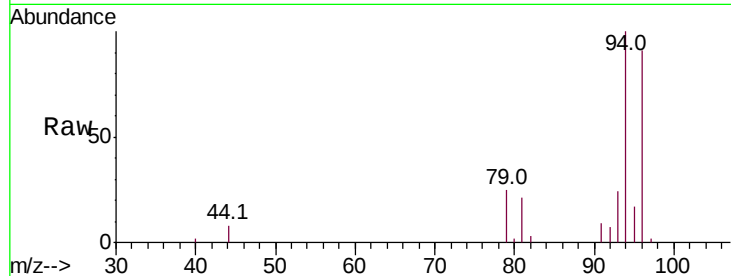
96 91.4 71.0 106.4

Manual Integrations

APPROVED

MMDadoda

12/24/2018 12:18:14 PM



#6

Chloroethane

Concen: 21.185 ug/l

RT: 2.92 min Scan# 167

Delta R.T. -0.01 min

Lab File: VW007476.D

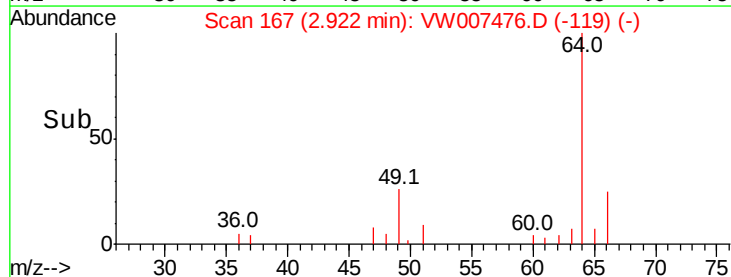
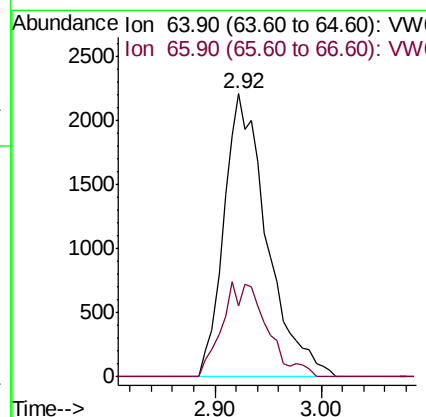
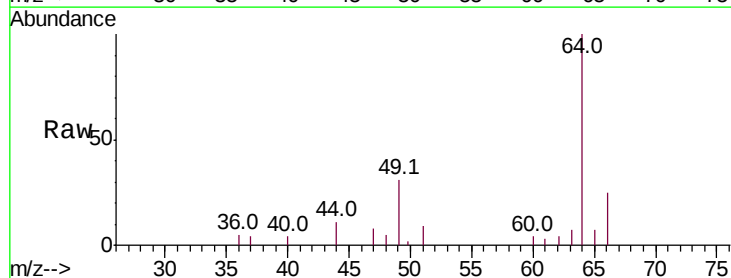
Acq: 13 Dec 2018 09:59

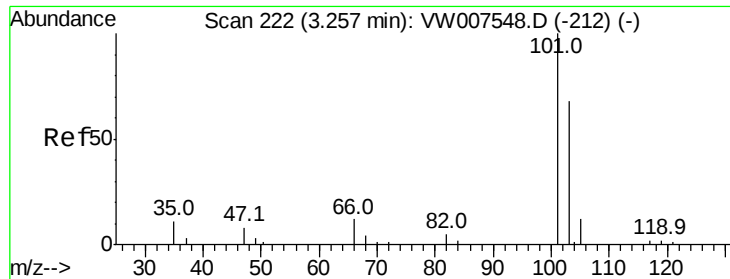
Tgt Ion: 64 Resp: 6227

Ion Ratio Lower Upper

64 100

66 25.2 24.6 37.0





#7

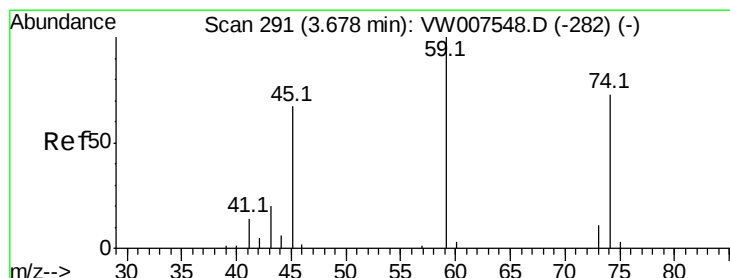
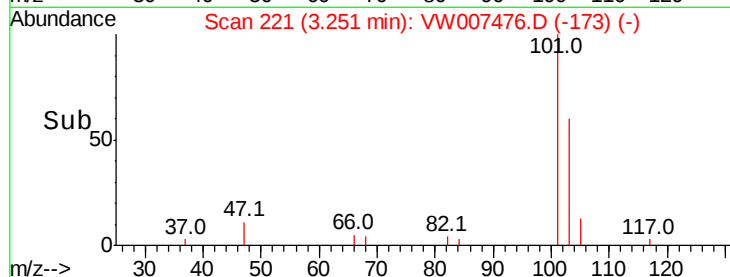
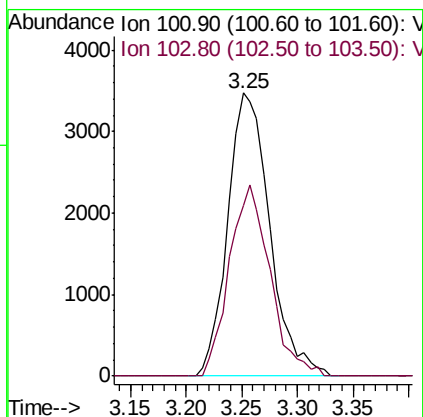
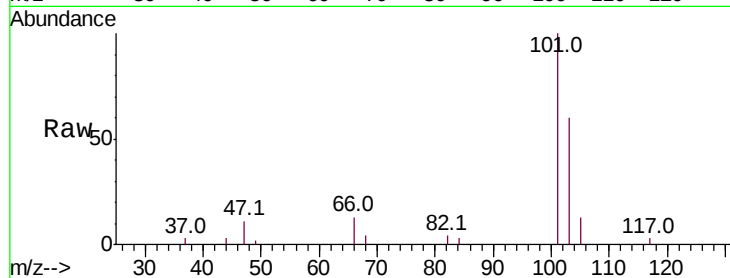
Trichlorofluoromethane
 Concen: 18.941 ug/l
 RT: 3.25 min Scan# 221
 Delta R.T. -0.01 min
 Lab File: VW007476.D
 Acq: 13 Dec 2018 09:59

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1216SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	60.3	51.7	77.5

Manual Integrations
 APPROVED

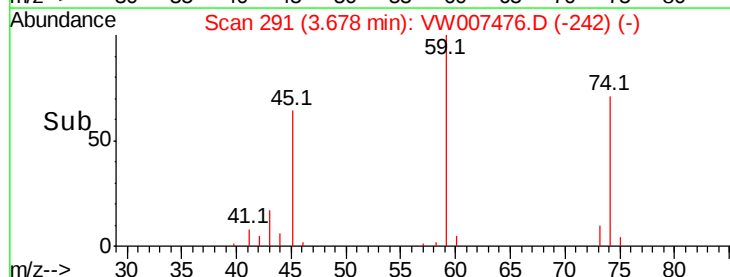
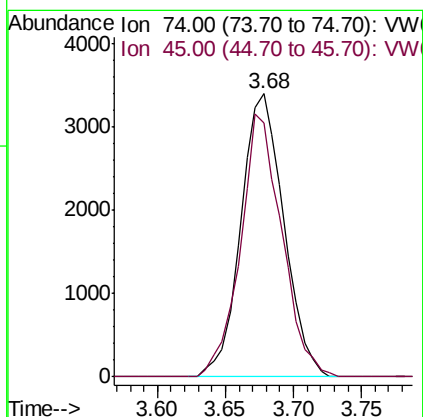
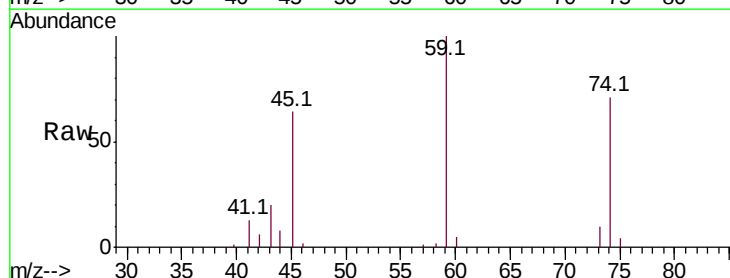
MMDadoda
 12/24/2018 12:18:14 PM

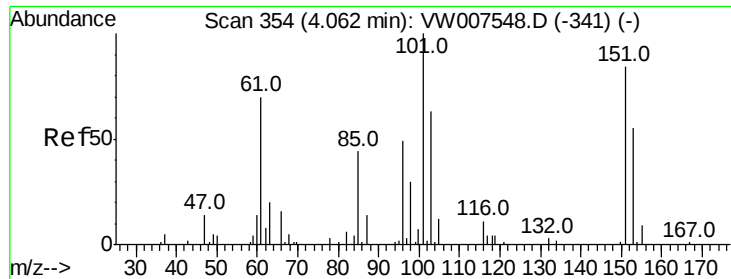


#8

Diethyl Ether
 Concen: 19.960 ug/l
 RT: 3.68 min Scan# 291
 Delta R.T. -0.00 min
 Lab File: VW007476.D
 Acq: 13 Dec 2018 09:59

Tgt Ion	Ratio	Lower	Upper
74	100		
45	89.8	43.0	129.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.143 ug/l

RT: 4.06 min Scan# 353

Delta R.T. 0.01 min

Lab File: VW007476.D

Acq: 13 Dec 2018 09:59

Instrument :

MSVOA_W

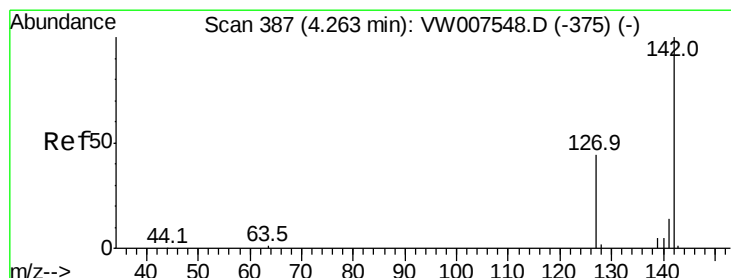
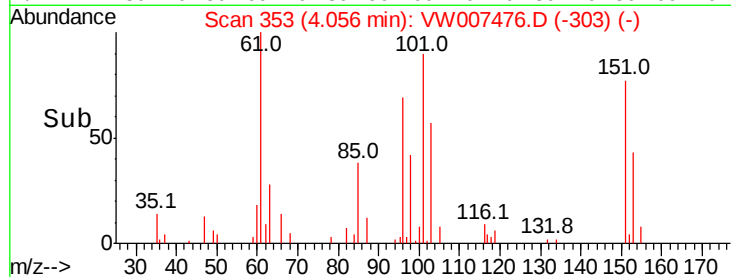
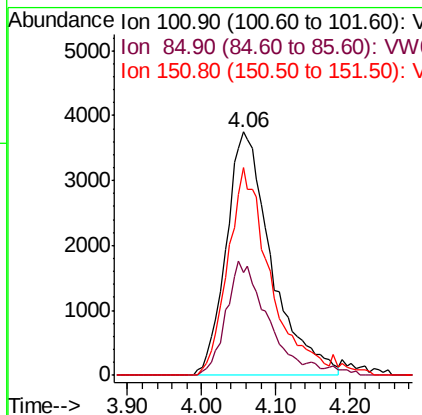
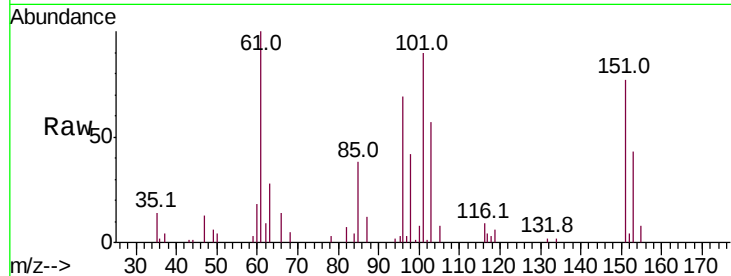
ClientSampleId :

VW1216SBS01

Tot Ion:	101	Resp:	15956
Ion Ratio	Lower	Upper	
101	100		
85	43.2	33.9	50.9
151	79.4	63.7	95.5

Manual Integrations
APPROVED

MMDadoda
12/24/2018 12:18:14 PM



#10

Methyl Iodide

Concen: 21.053 ug/l

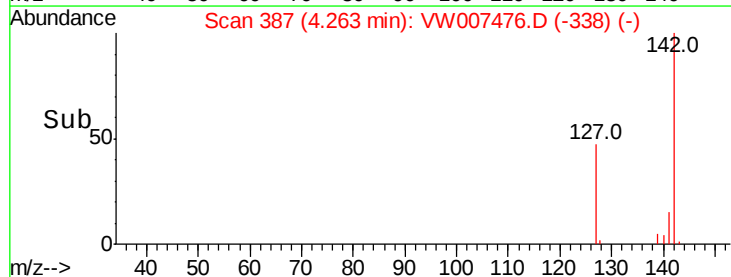
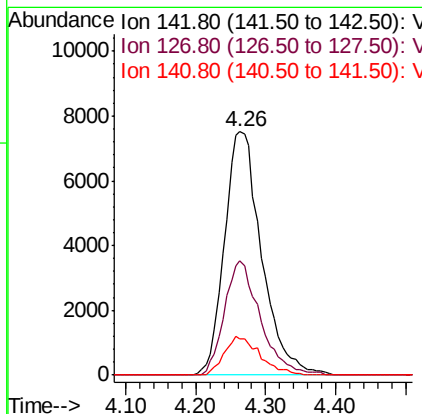
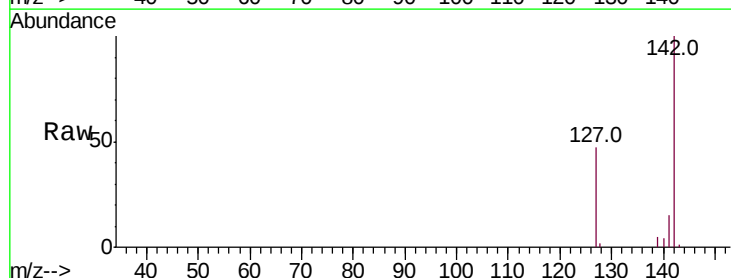
RT: 4.26 min Scan# 387

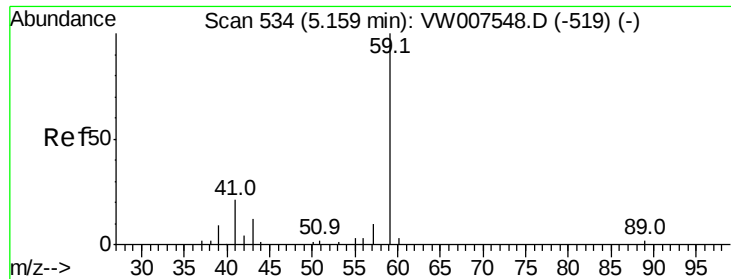
Delta R.T. -0.00 min

Lab File: VW007476.D

Acq: 13 Dec 2018 09:59

Tgt Ion:	142	Resp:	27620
Ion Ratio	Lower	Upper	
142	100		
127	45.4	35.8	53.6
141	15.2	11.1	16.7





#11

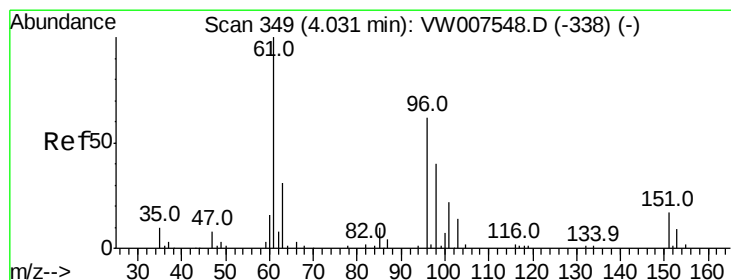
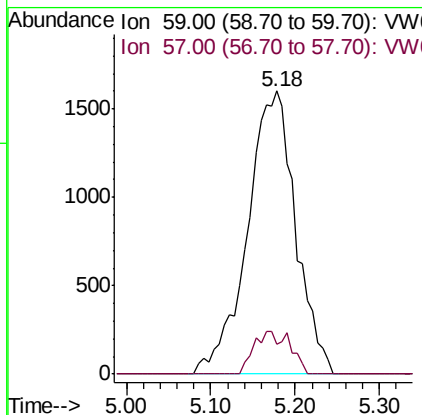
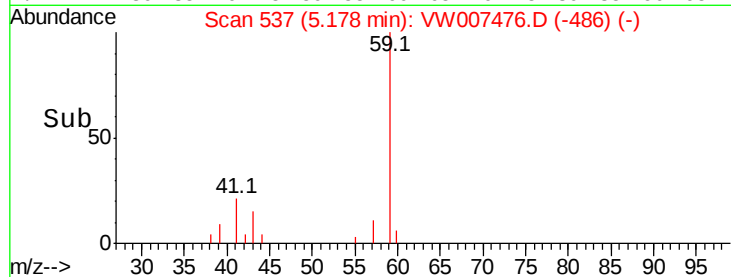
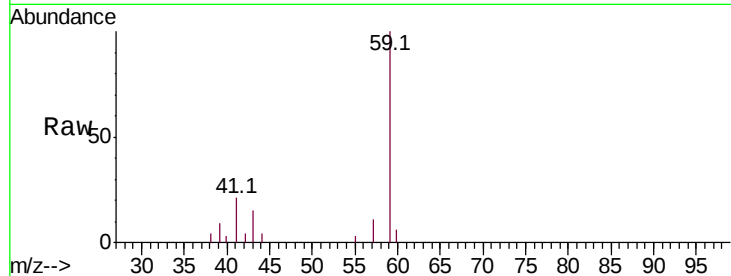
Tert butyl alcohol
Concen: 105.944 ug/l
RT: 5.18 min Scan# 537
Delta R.T. 0.01 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Instrument :
MSVOA_W
ClientSampleId :
VW1216SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.2	7.6	11.4

Manual Integrations
APPROVED

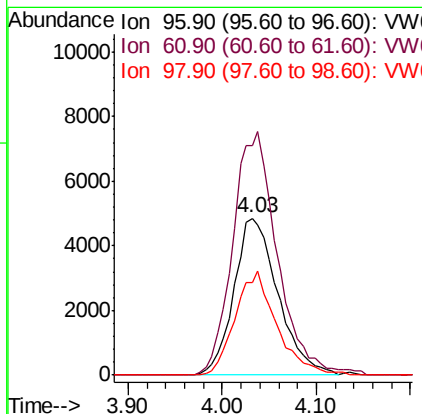
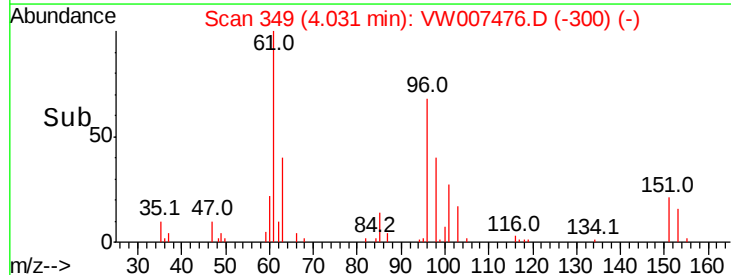
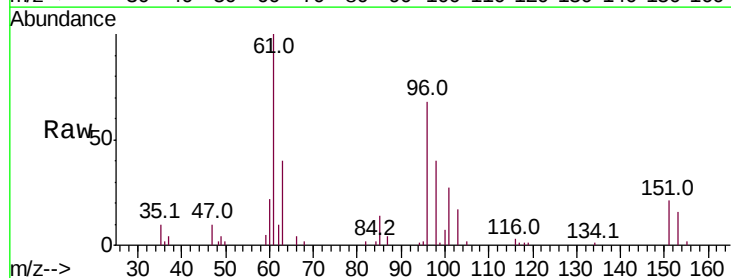
MMDadoda
12/24/2018 12:18:14 PM

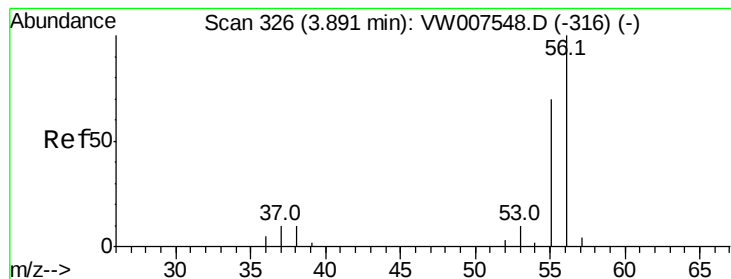


#12

1,1-Dichloroethene
Concen: 20.866 ug/l
RT: 4.03 min Scan# 349
Delta R.T. -0.00 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Tgt Ion	Ratio	Lower	Upper
96	100		
61	146.1	126.2	189.2
98	58.8	48.3	72.5





#13

Acrolein

Concen: 86.662 ug/l

RT: 3.89 min Scan# 326

Delta R.T. -0.00 min

Lab File: VW007476.D

Acq: 13 Dec 2018 09:59

Instrument :

MSVOA_W

ClientSampleId :

VW1216SBS01

Tot Ion: 56 Resp: 3397

Ion Ratio Lower Upper

56 100

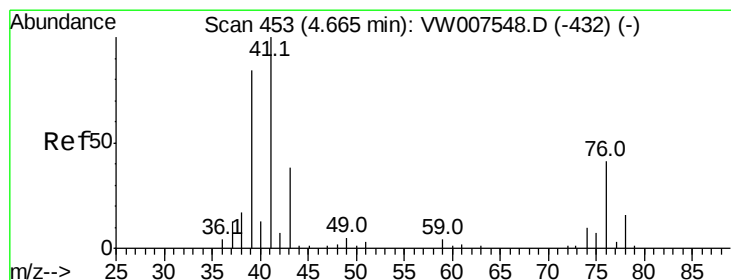
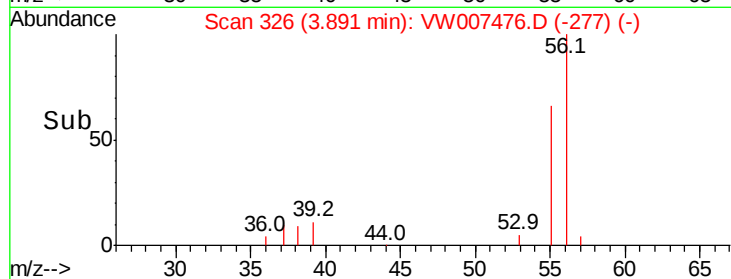
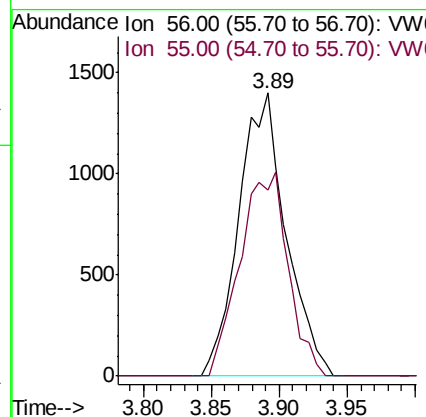
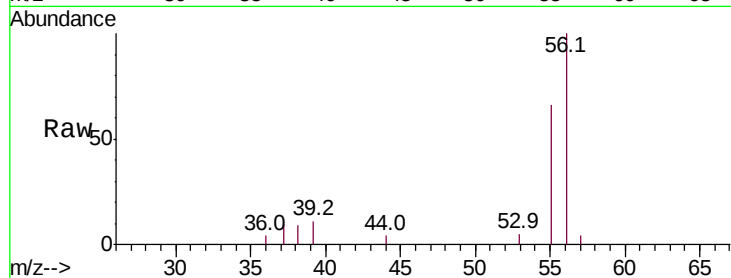
55 73.4 57.4 86.2

Manual Integrations

APPROVED

MMDadoda

12/24/2018 12:18:14 PM



#14

Allyl chloride

Concen: 19.967 ug/l

RT: 4.66 min Scan# 452

Delta R.T. -0.00 min

Lab File: VW007476.D

Acq: 13 Dec 2018 09:59

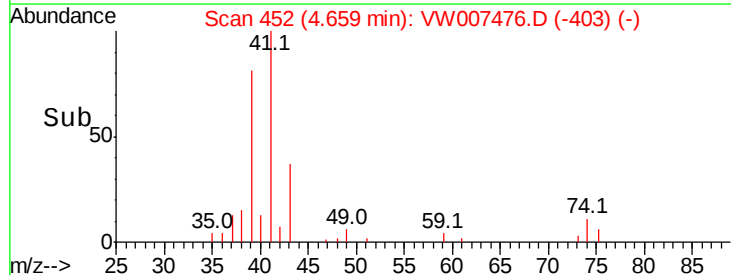
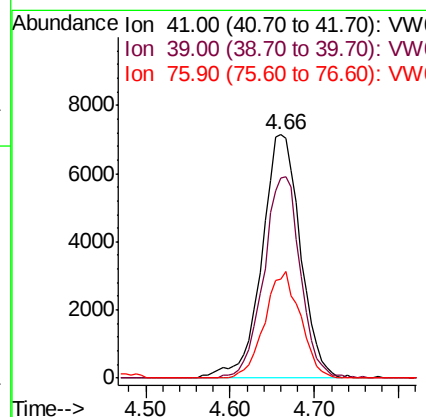
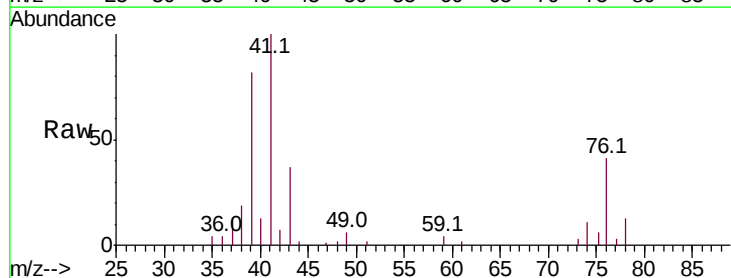
Tgt Ion: 41 Resp: 22447

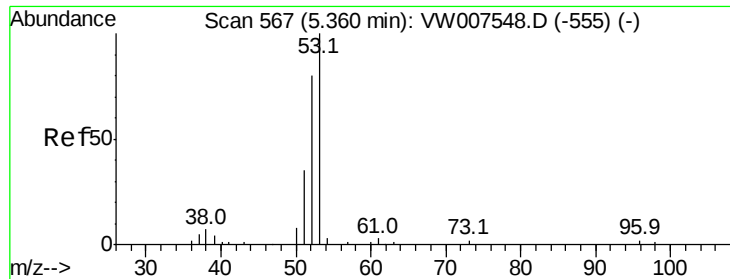
Ion Ratio Lower Upper

41 100

39 79.1 63.4 95.2

76 40.5 32.1 48.1





#15

Acrylonitrile

Concen: 101.396 ug/l

RT: 5.37 min Scan# 568

Delta R.T. -0.00 min

Lab File: VW007476.D

Acq: 13 Dec 2018 09:59

Instrument :

MSVOA_W

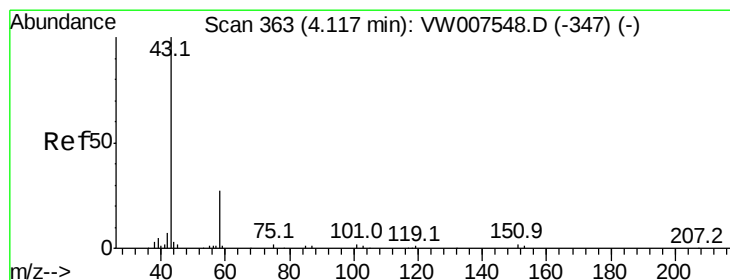
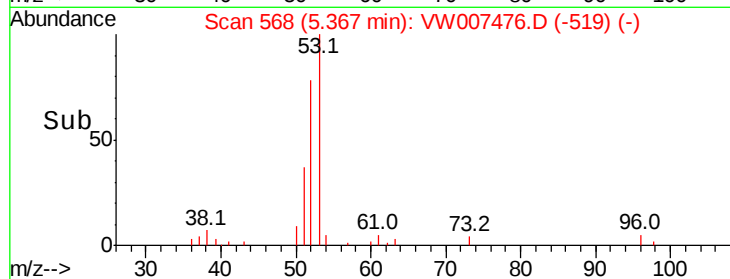
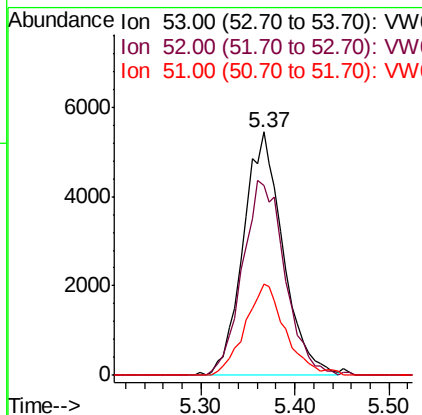
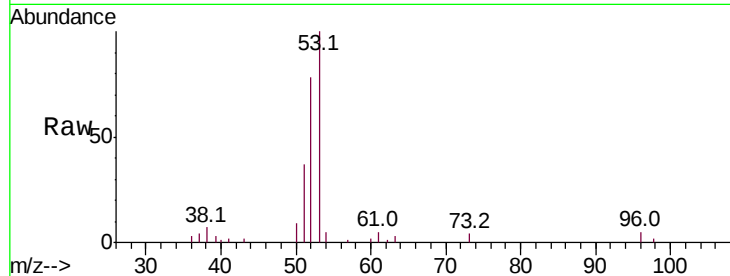
ClientSampleId :

VW1216SBS01

Tot Ion:	53	Resp:	16061
Ion	Ratio	Lower	Upper
53	100		
52	85.0	67.4	101.2
51	38.3	30.2	45.2

Manual Integrations
APPROVED

MMDadoda
12/24/2018 12:18:14 PM



#16

Acetone

Concen: 91.357 ug/l

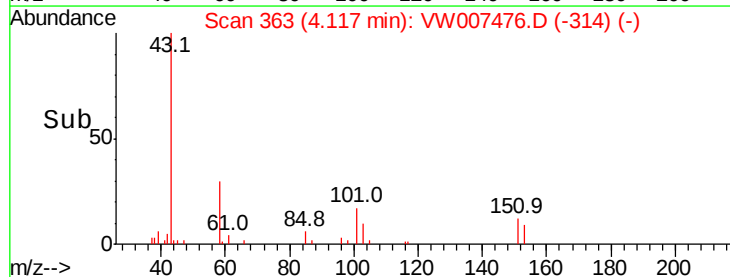
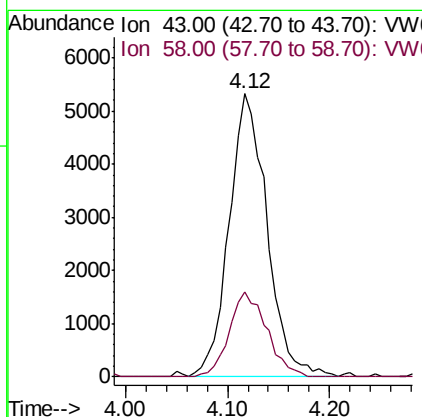
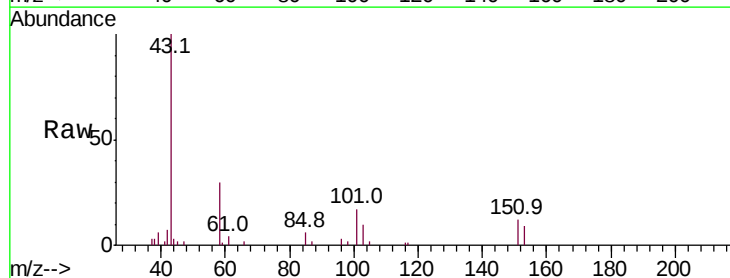
RT: 4.12 min Scan# 363

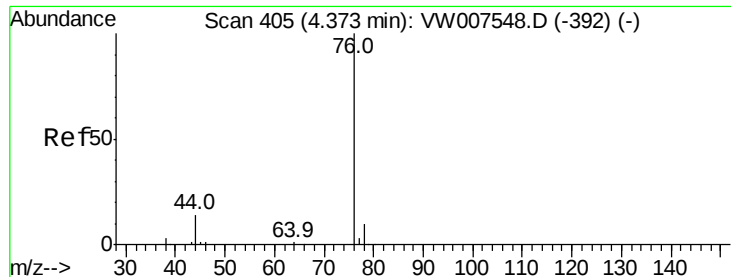
Delta R.T. -0.00 min

Lab File: VW007476.D

Acq: 13 Dec 2018 09:59

Tgt Ion:	43	Resp:	13764
Ion	Ratio	Lower	Upper
43	100		
58	30.1	24.9	37.3





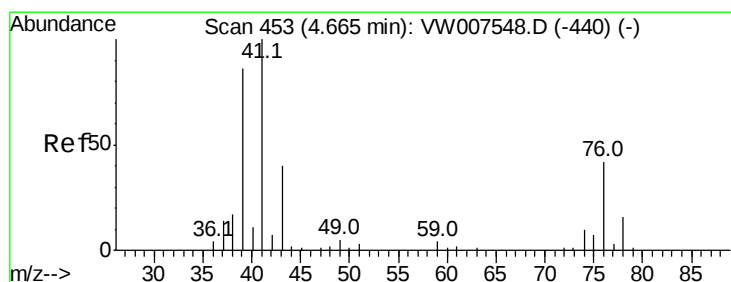
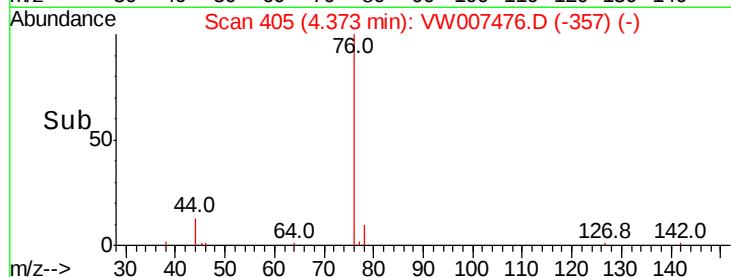
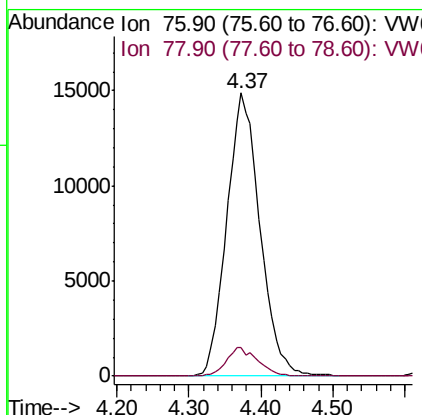
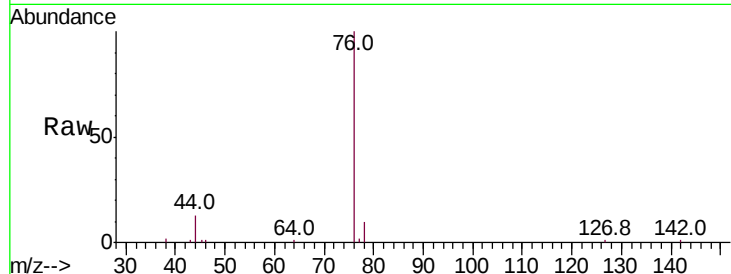
#17
Carbon Disulfide
Concen: 20.592 ug/l
RT: 4.37 min Scan# 405
Delta R.T. -0.01 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Instrument :
MSVOA_W
ClientSampleId :
VW1216SBSD01

Tot Ion: 76 Resp: 47619
Ion Ratio Lower Upper
76 100
78 10.3 7.1 10.7

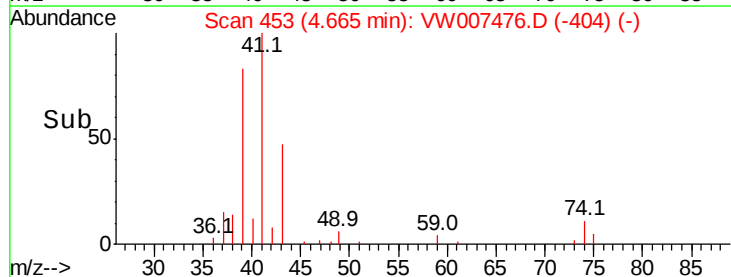
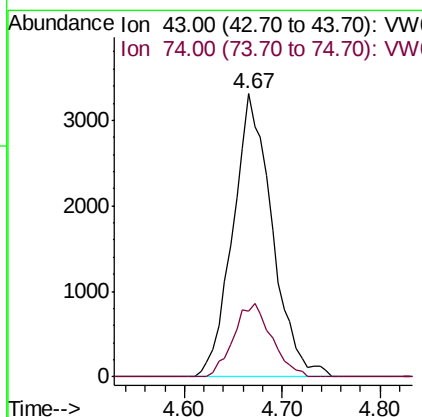
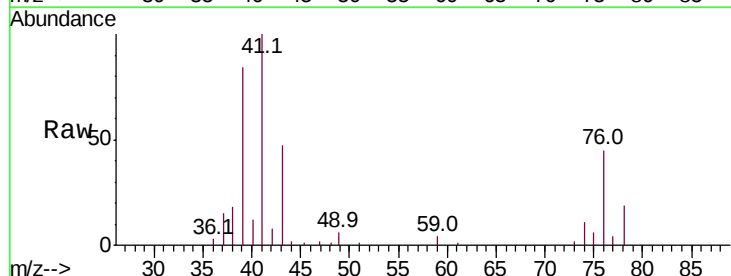
Manual Integrations
APPROVED

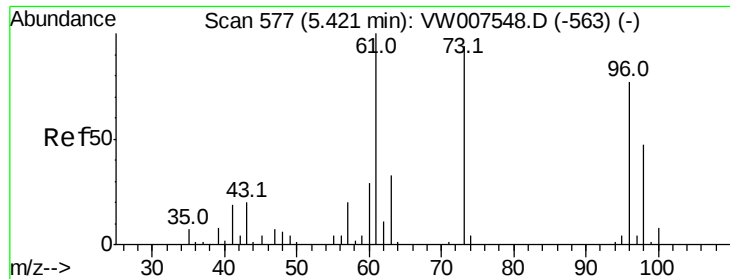
MMDadoda
12/24/2018 12:18:14 PM



#18
Methyl Acetate
Concen: 22.550 ug/l
RT: 4.67 min Scan# 453
Delta R.T. -0.00 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Tgt Ion: 43 Resp: 9221
Ion Ratio Lower Upper
43 100
74 25.1 21.1 31.7





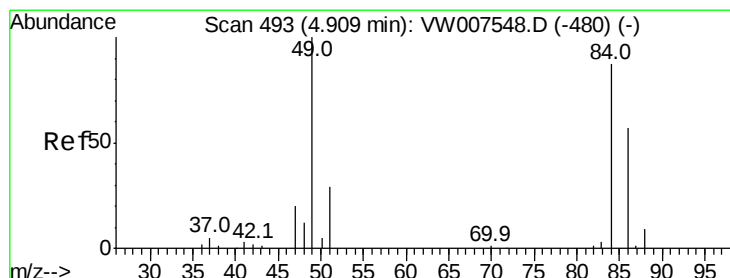
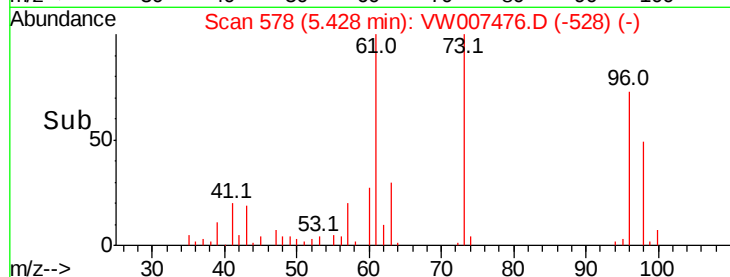
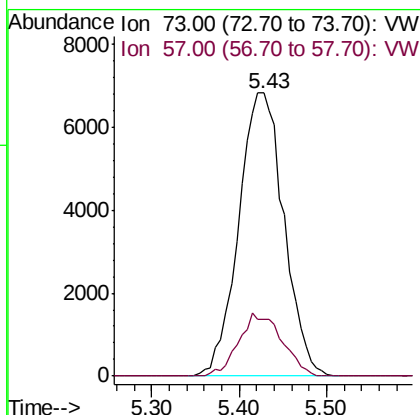
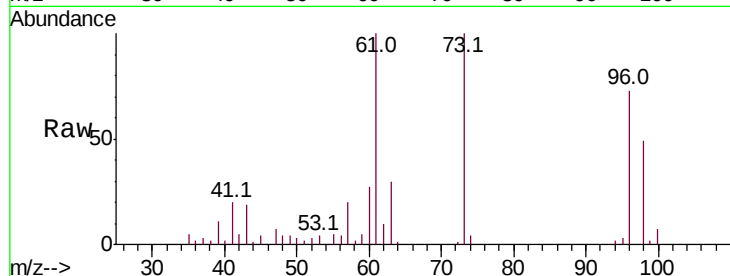
#19
Methvl tert-butvl Ether
Concen: 21.267 ug/l
RT: 5.43 min Scan# 578
Delta R.T. 0.01 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Instrument :
MSVOA_W
ClientSampleId :
VW1216SBS01

Tot Ion: 73 Resp: 24469
Ion Ratio Lower Upper
73 100
57 20.1 16.4 24.6

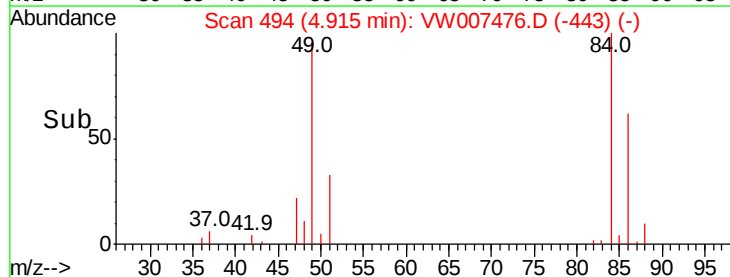
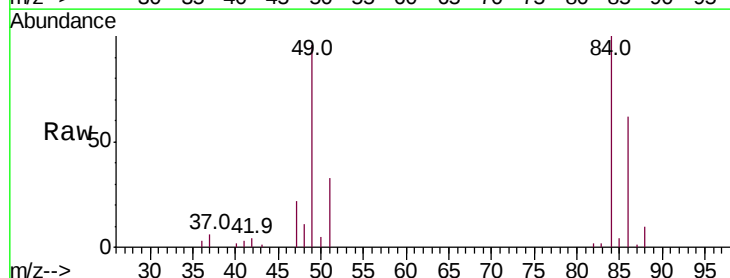
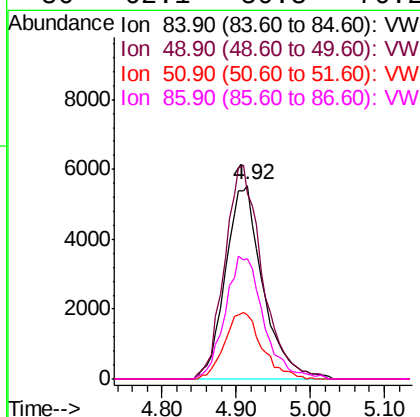
Manual Integrations
APPROVED

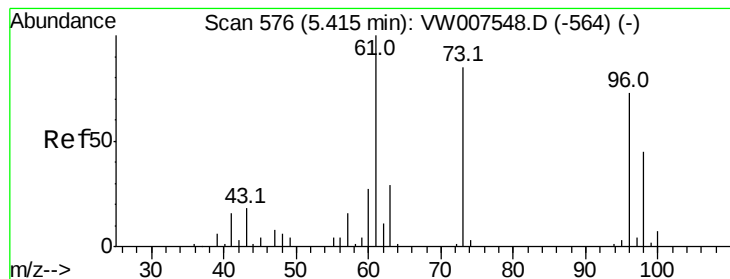
MMDadoda
12/24/2018 12:18:14 PM



#20
Methylene Chloride
Concen: 21.341 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Tgt Ion: 84 Resp: 19433
Ion Ratio Lower Upper
84 100
49 96.2 87.1 130.7
51 33.0 28.2 42.2
86 62.1 50.8 76.2





#21

trans-1,2-Dichloroethene

Concen: 20.684 ug/l

RT: 5.42 min Scan# 576

Delta R.T. -0.00 min

Lab File: VW007476.D

Acq: 13 Dec 2018 09:59

Instrument :

MSVOA_W

ClientSampleId :

VW1216SBS01

Tot Ion: 96 Resp: 17647

Ion Ratio Lower Upper

96 100

61 125.4 105.0 157.6

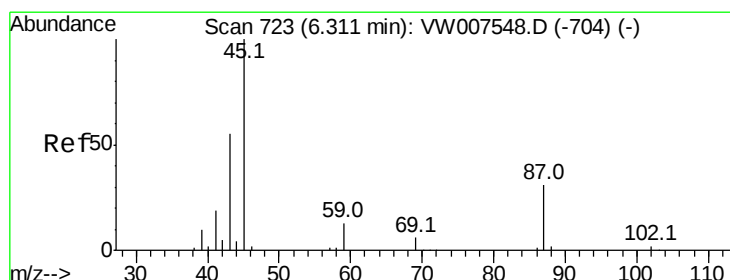
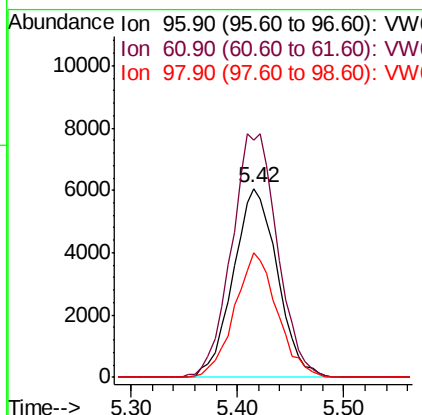
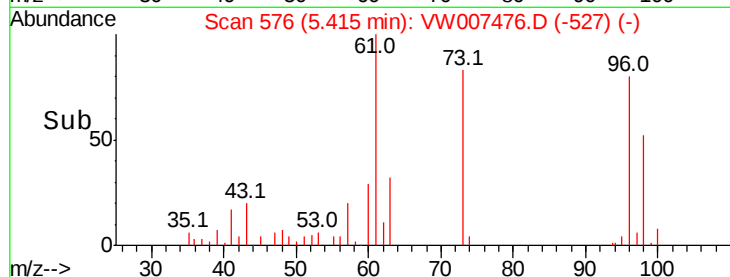
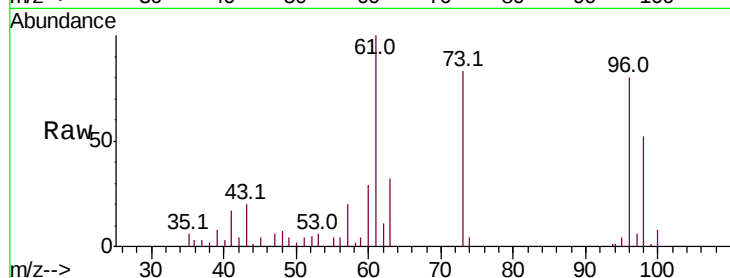
98 65.8 49.7 74.5

Manual Integrations

APPROVED

MMDadoda

12/24/2018 12:18:14 PM



#22

Diisopropyl ether

Concen: 20.802 ug/l

RT: 6.31 min Scan# 723

Delta R.T. -0.00 min

Lab File: VW007476.D

Acq: 13 Dec 2018 09:59

Tgt Ion: 45 Resp: 44951

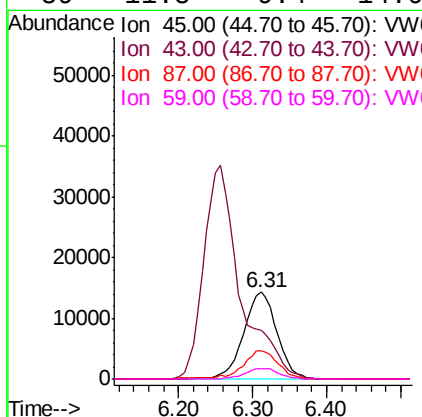
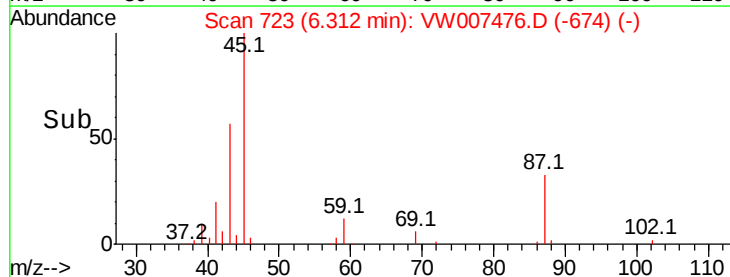
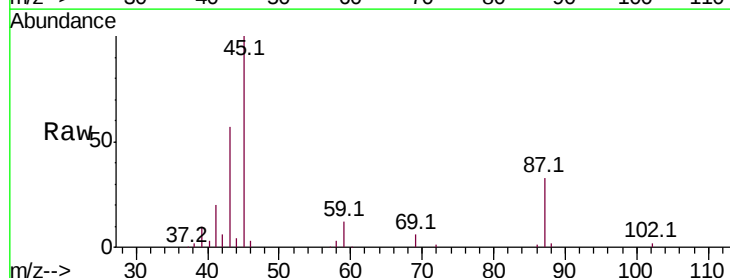
Ion Ratio Lower Upper

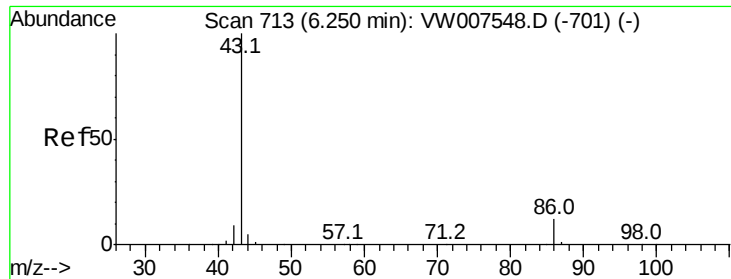
45 100

43 56.1 41.6 62.4

87 33.2 24.3 36.5

59 11.5 9.4 14.0





#23

Vinyl Acetate

Concen: 99.362 ug/l

RT: 6.26 min Scan# 714

Delta R.T. 0.01 min

Lab File: VW007476.D

Acq: 13 Dec 2018 09:59

Instrument :

MSVOA_W

ClientSampleId :

VW1216SBS01

Tot Ion: 43 Resp: 120095

Ion Ratio Lower Upper

43 100

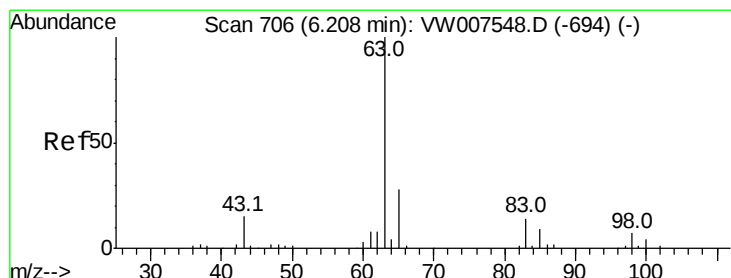
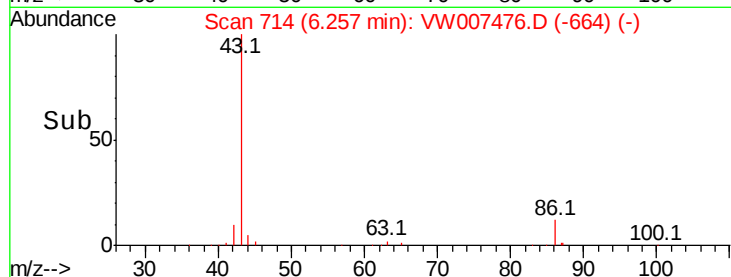
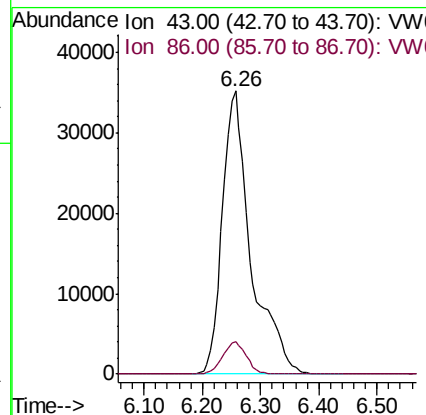
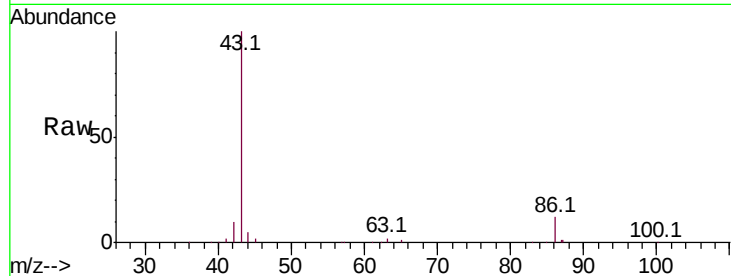
86 11.5 8.6 12.8

Manual Integrations

APPROVED

MMDadoda

12/24/2018 12:18:14 PM



#24

1,1-Dichloroethane

Concen: 20.791 ug/l

RT: 6.21 min Scan# 707

Delta R.T. -0.00 min

Lab File: VW007476.D

Acq: 13 Dec 2018 09:59

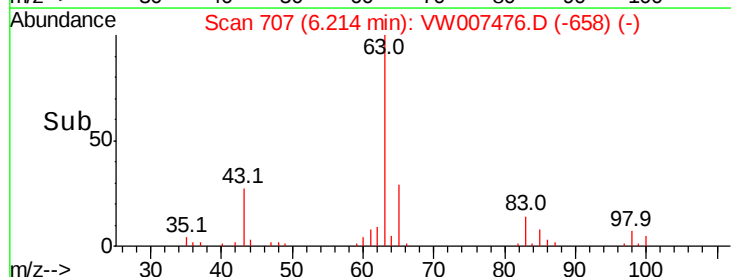
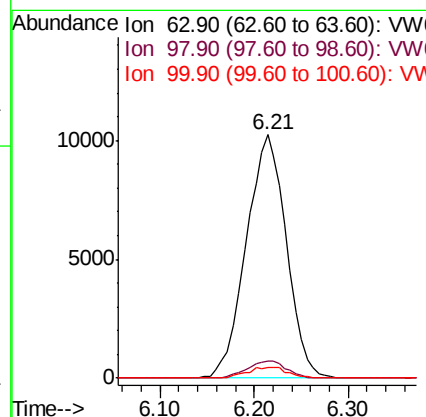
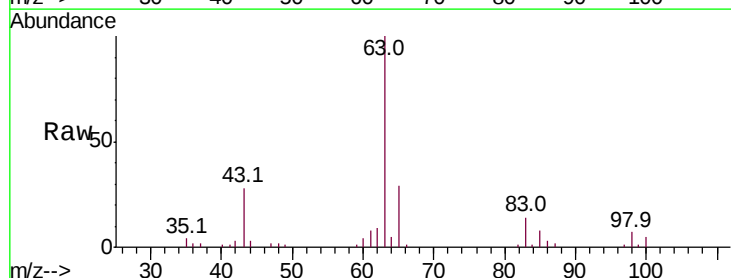
Tgt Ion: 63 Resp: 30364

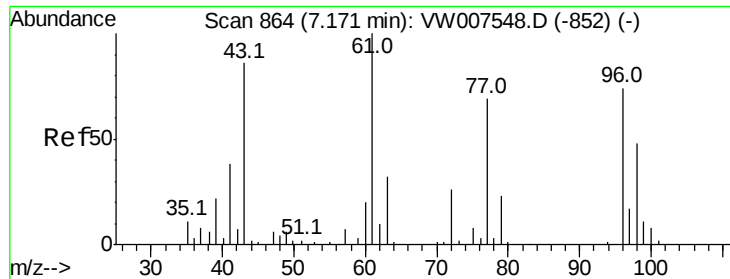
Ion Ratio Lower Upper

63 100

98 6.8 3.5 10.4

100 4.6 2.5 7.5





#25

2-Butanone

Concen: 98.200 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW007476.D

Acq: 13 Dec 2018 09:59

Instrument :

MSVOA_W

ClientSampleId :

VW1216SBS01

Tot Ion: 43 Resp: 19315

Ion Ratio Lower Upper

43 100

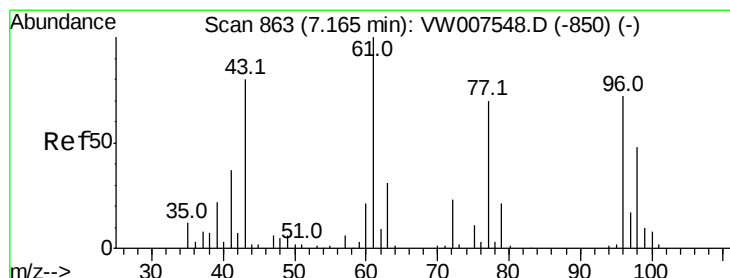
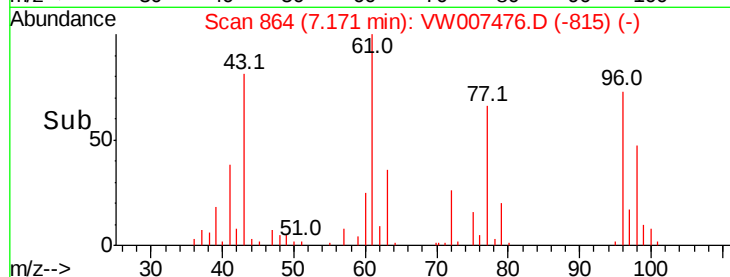
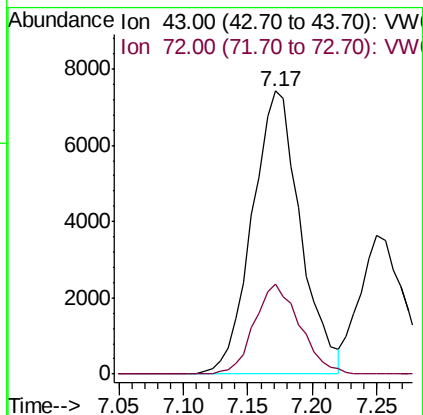
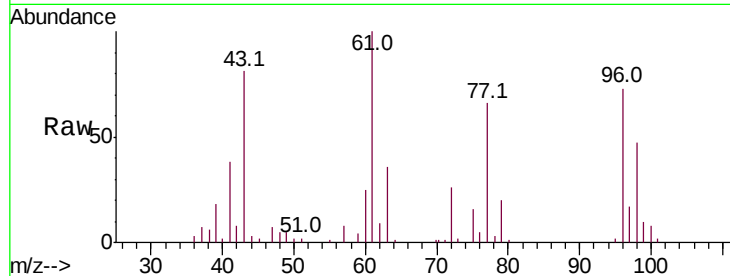
72 31.8 23.4 35.2

Manual Integrations

APPROVED

MMDadoda

12/24/2018 12:18:14 PM



#26

2,2-Dichloropropane

Concen: 18.913 ug/l

RT: 7.16 min Scan# 862

Delta R.T. -0.01 min

Lab File: VW007476.D

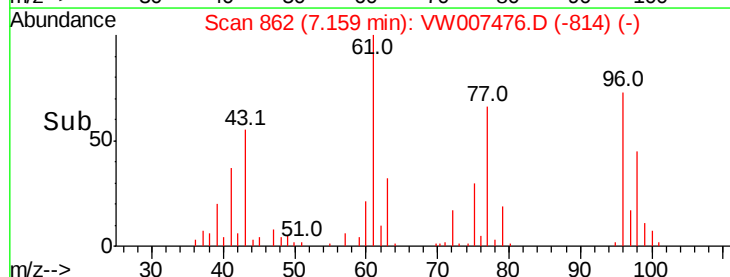
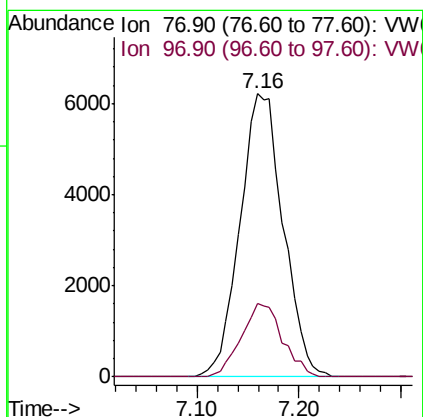
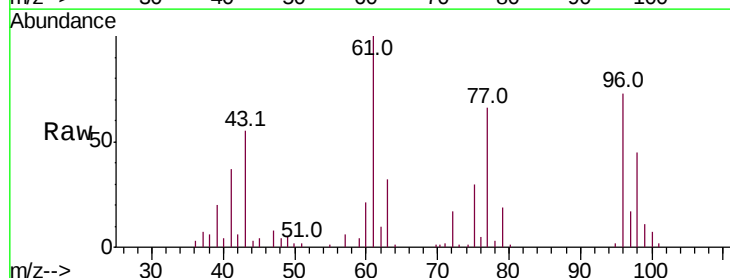
Acq: 13 Dec 2018 09:59

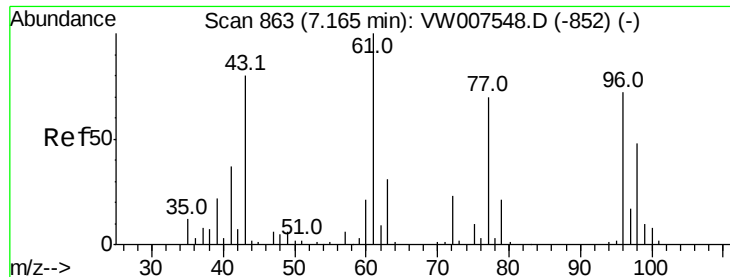
Tgt Ion: 77 Resp: 18281

Ion Ratio Lower Upper

77 100

97 24.7 11.6 34.8





#27

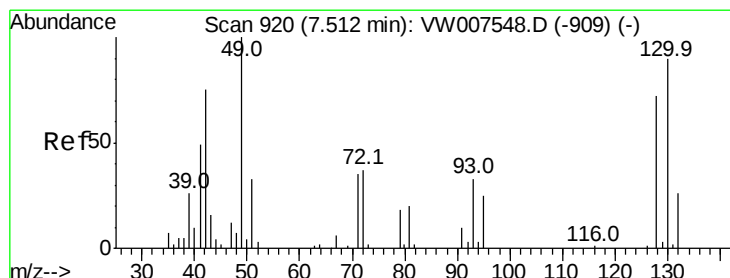
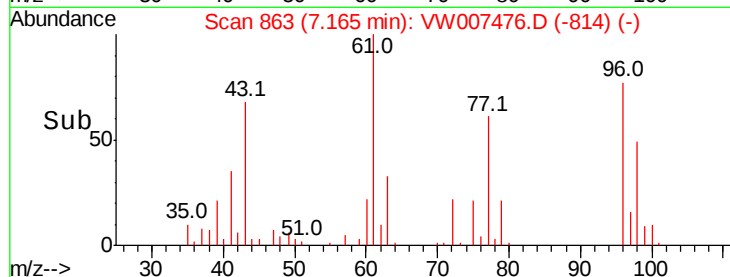
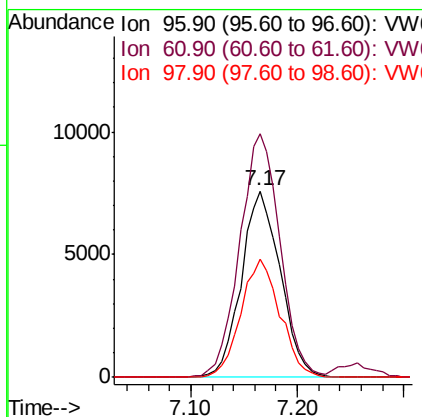
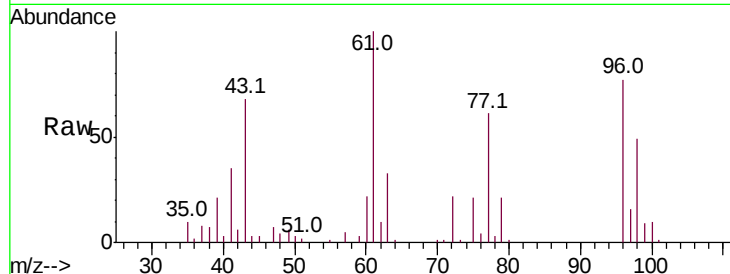
cis-1,2-Dichloroethene
Concen: 20.907 ug/l
RT: 7.17 min Scan# 863
Delta R.T. -0.00 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Instrument :
MSVOA_W
ClientSampleId :
VW1216SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	135.3	0.0	268.4
98	63.6	0.0	127.8

Manual Integrations
APPROVED

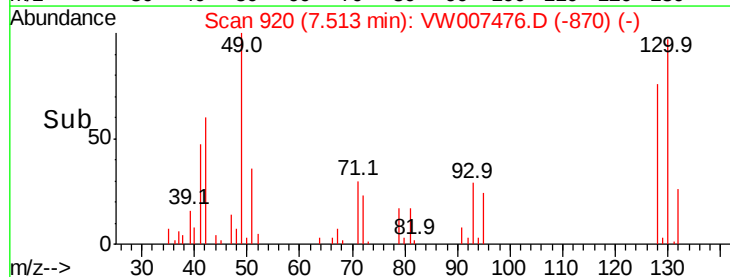
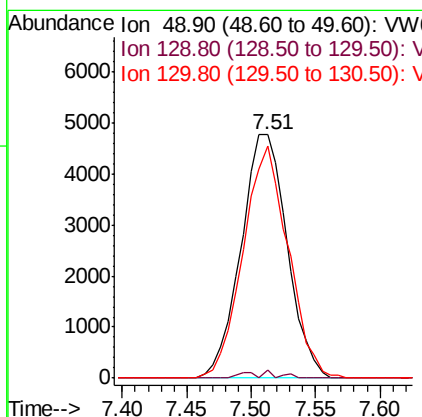
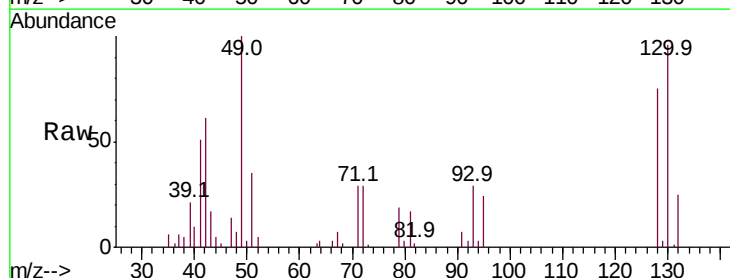
MMDadoda
12/24/2018 12:18:14 PM

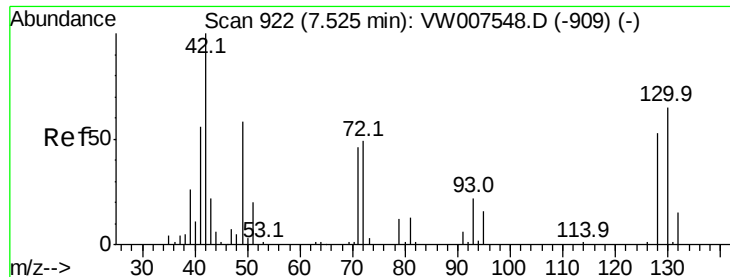


#28

Bromochloromethane
Concen: 21.549 ug/l
RT: 7.51 min Scan# 920
Delta R.T. 0.01 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.9	0.0	2.6
130	93.2	75.9	113.9





#29

Tetrahydrofuran

Concen: 101.849 ug/l

RT: 7.53 min Scan# 923

Delta R.T. -0.00 min

Lab File: VW007476.D

Acq: 13 Dec 2018 09:59

Instrument :

MSVOA_W

ClientSampleId :

VW1216SBS01

Tot Ion: 42 Resp: 12682

Ion Ratio Lower Upper

42 100

72 49.8 38.2 57.4

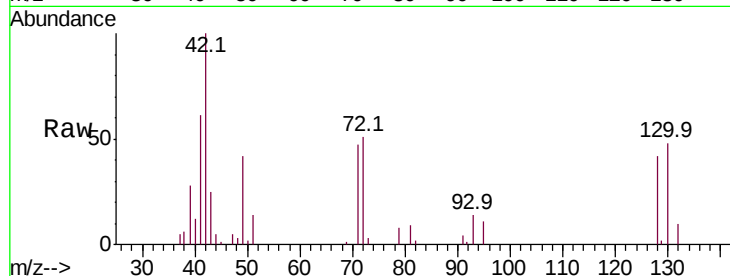
71 46.8 35.5 53.3

Manual Integrations

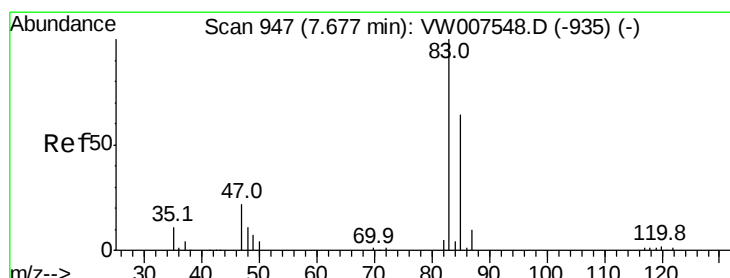
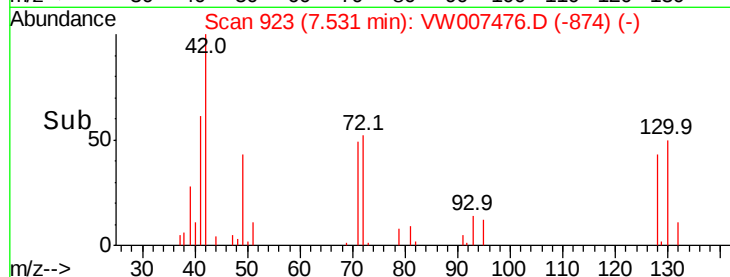
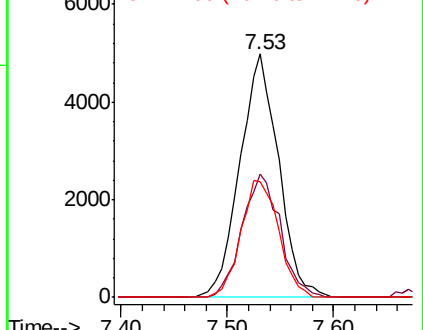
APPROVED

MMDadoda

12/24/2018 12:18:14 PM



Abundance Ion 42.00 (41.70 to 42.70): VW
Ion 72.00 (71.70 to 72.70): VW
Ion 71.00 (70.70 to 71.70): VW



#30

Chloroform

Concen: 20.566 ug/l

RT: 7.68 min Scan# 947

Delta R.T. 0.01 min

Lab File: VW007476.D

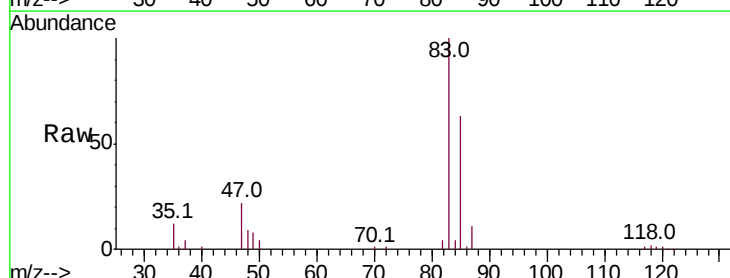
Acq: 13 Dec 2018 09:59

Tgt Ion: 83 Resp: 32687

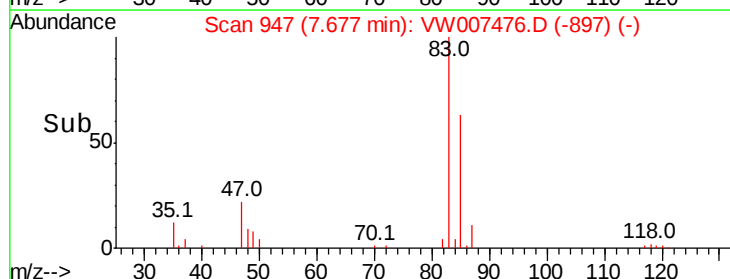
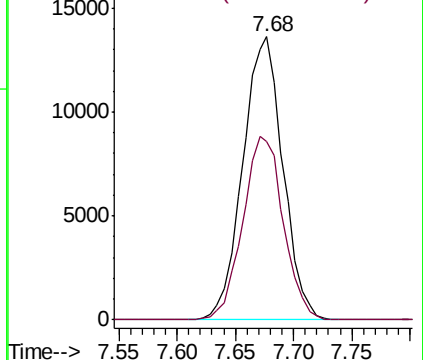
Ion Ratio Lower Upper

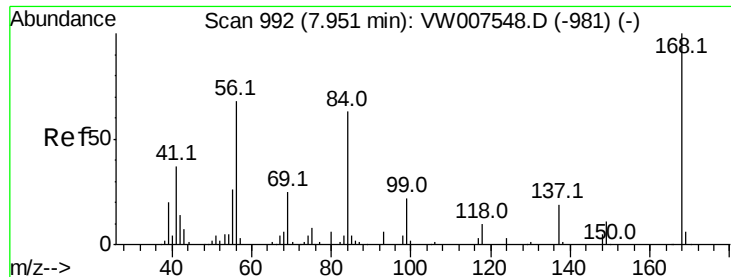
83 100

85 63.2 51.8 77.8



Abundance Ion 82.90 (82.60 to 83.60): VW
Ion 84.90 (84.60 to 85.60): VW





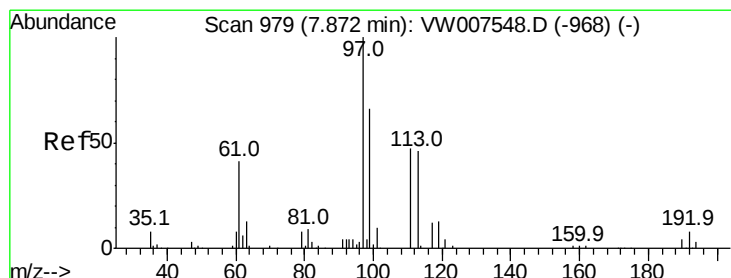
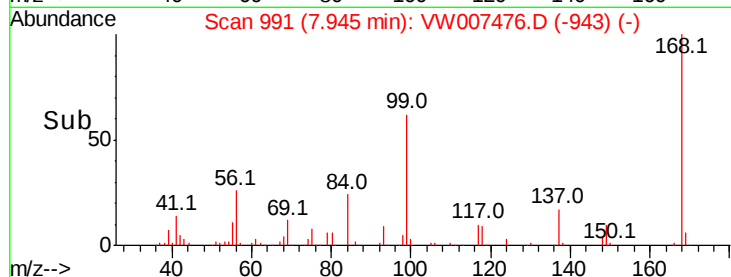
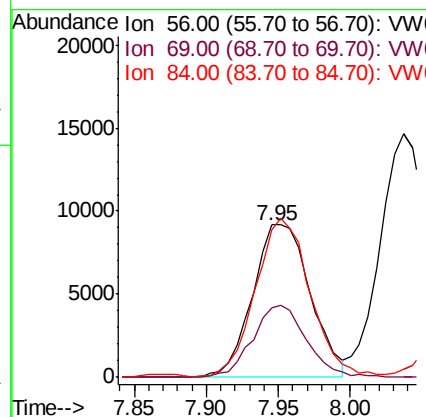
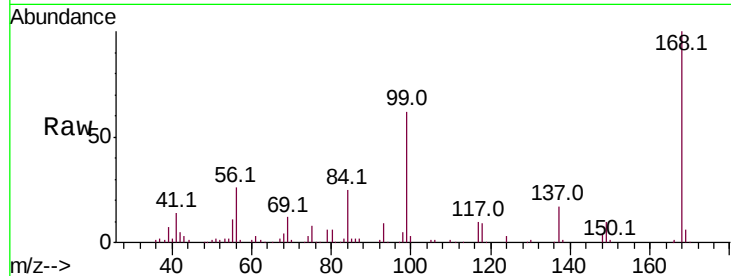
#31
Cyclohexane
Concen: 19.064 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Instrument :
MSVOA_W
ClientSampleId :
VW1216SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	45.7	28.9	43.3#
84	96.4	71.8	107.6

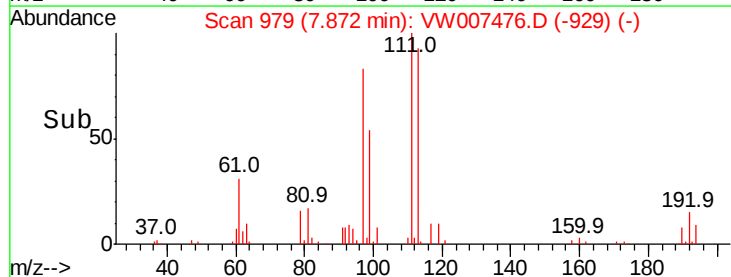
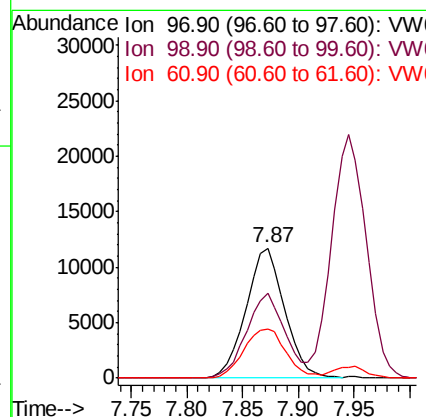
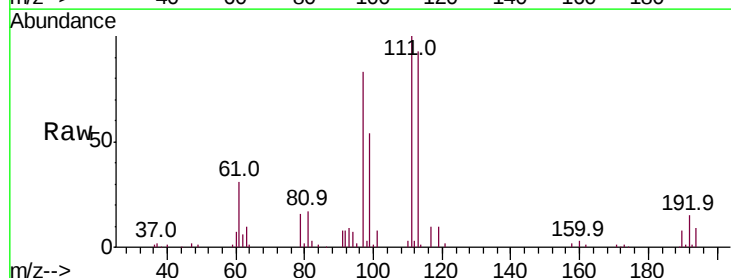
Manual Integrations
APPROVED

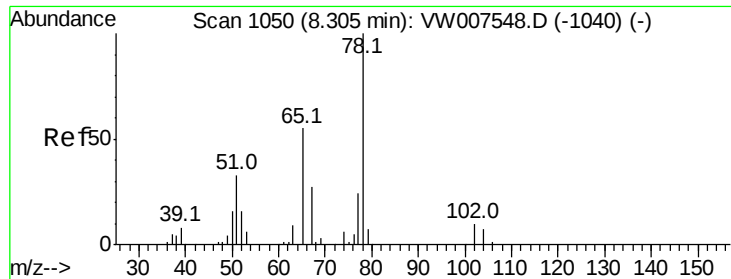
MMDadoda
12/24/2018 12:18:14 PM



#32
1,1,1-Trichloroethane
Concen: 20.263 ug/l
RT: 7.87 min Scan# 979
Delta R.T. 0.01 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.1	76.7
61	41.4	33.2	49.8





#33

1,2-Dichloroethane-d4

Concen: 48.908 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW007476.D

Acq: 13 Dec 2018 09:59

Instrument :

MSVOA_W

ClientSampleId :

VW1216SBS01

Tot Ion: 65 Resp: 42186

Ion Ratio Lower Upper

65 100

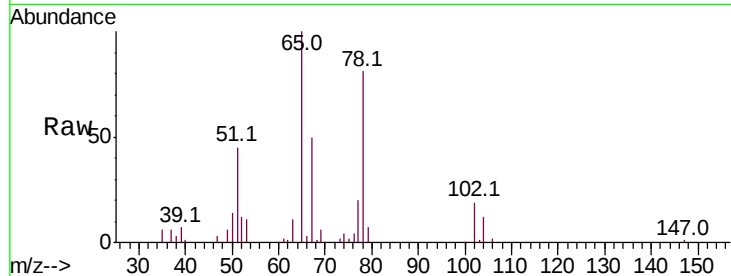
67 50.8 0.0 101.6

Manual Integrations

APPROVED

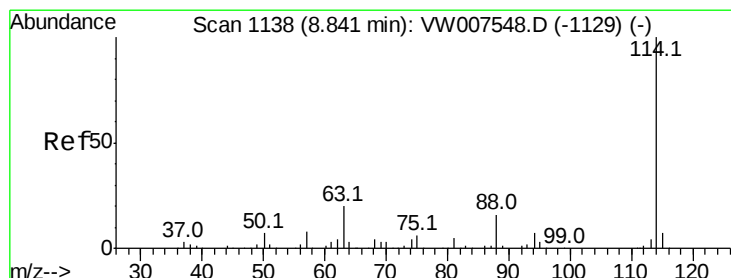
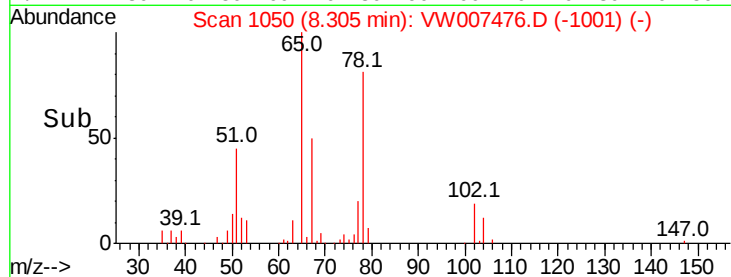
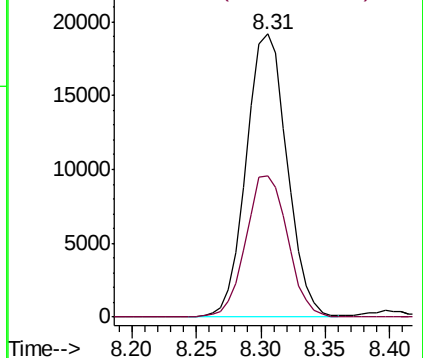
MMDadoda

12/24/2018 12:18:14 PM



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW007476.D

Acq: 13 Dec 2018 09:59

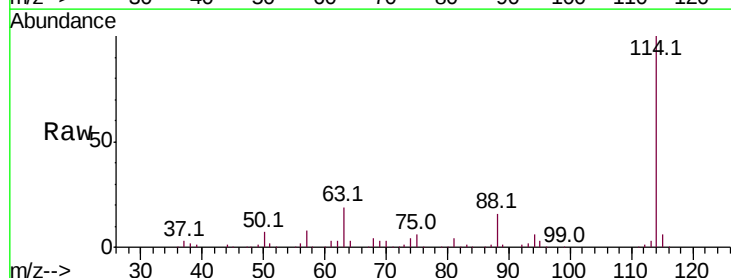
Tgt Ion: 114 Resp: 134106

Ion Ratio Lower Upper

114 100

63 19.1 0.0 39.6

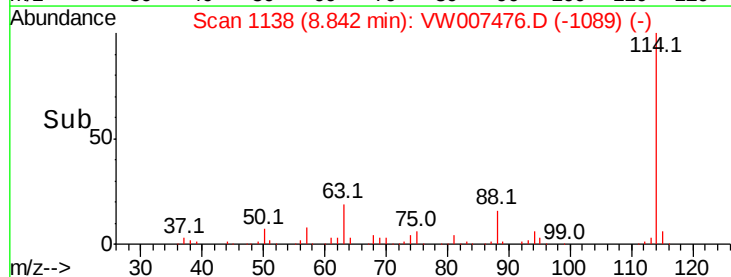
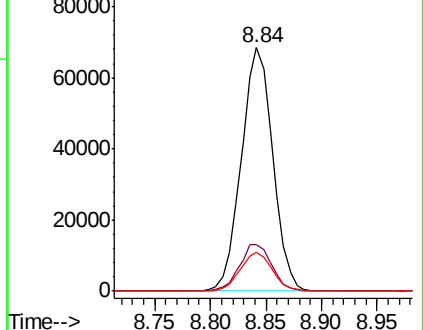
88 16.0 0.0 31.4

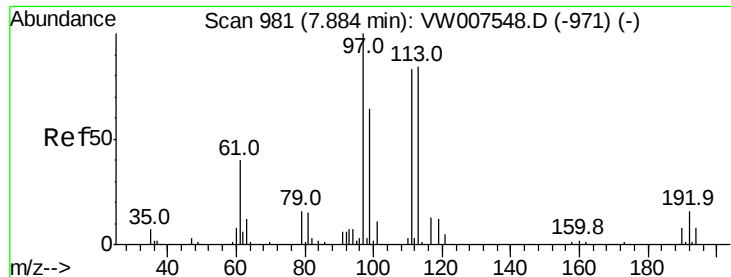


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW





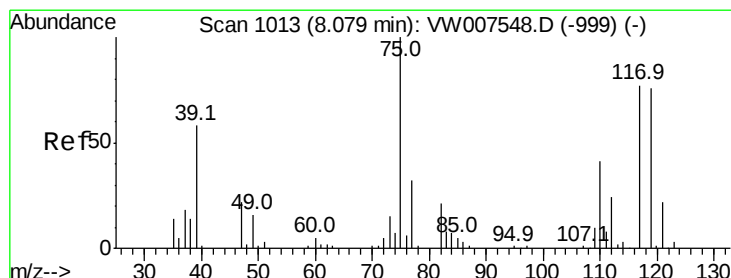
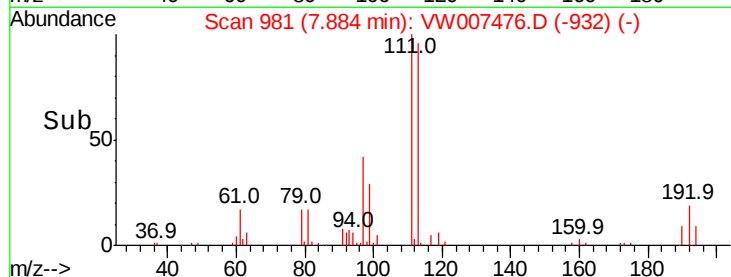
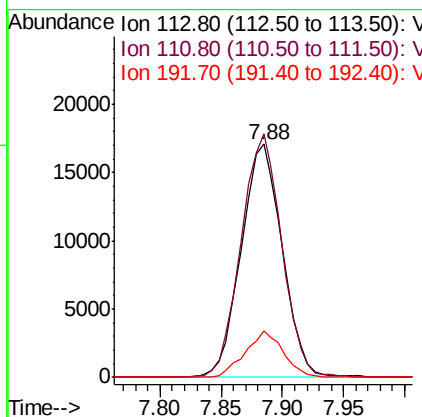
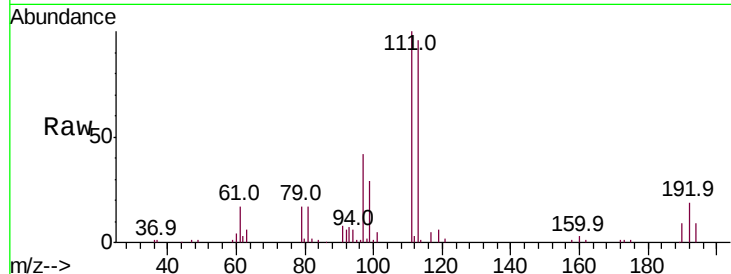
#35
Dibromofluoromethane
Concen: 49.123 ug/l
RT: 7.88 min Scan# 981
Delta R.T. -0.00 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Instrument :
MSVOA_W
ClientSampleId :
VW1216SBS01

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.6	81.1	121.7
192	18.3	14.6	21.8

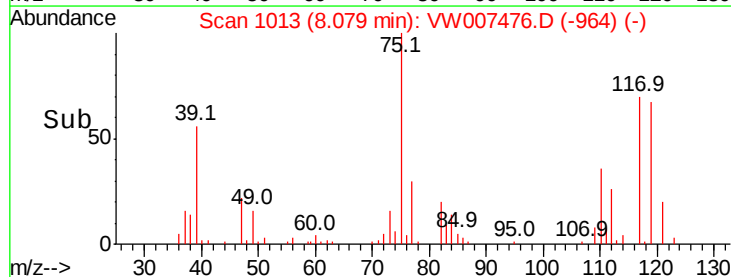
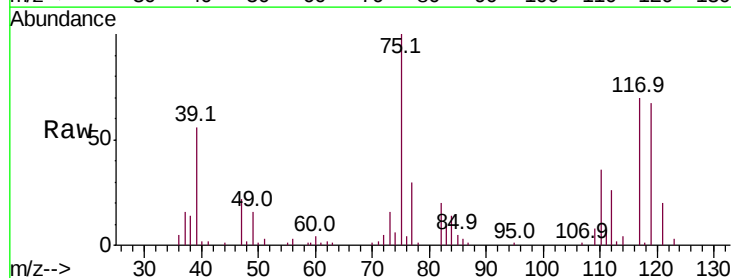
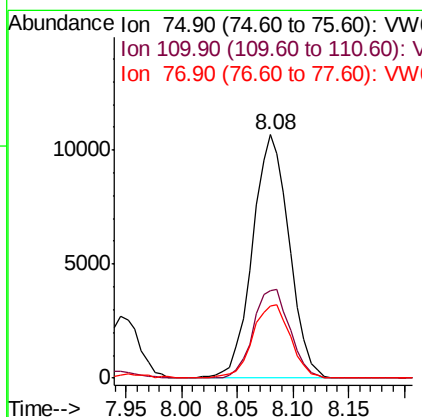
Manual Integrations
APPROVED

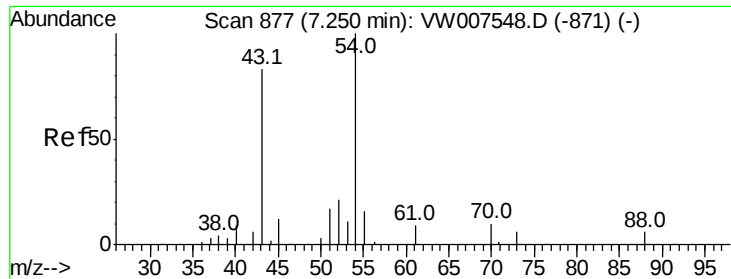
MMDadoda
12/24/2018 12:18:14 PM



#36
1,1-Dichloropropene
Concen: 20.030 ug/l
RT: 8.08 min Scan# 1013
Delta R.T. -0.00 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Tgt Ion	Ratio	Lower	Upper
75	100		
110	36.1	18.5	55.5
77	31.1	25.6	38.4





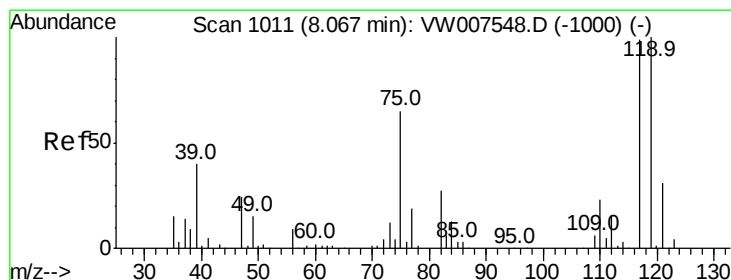
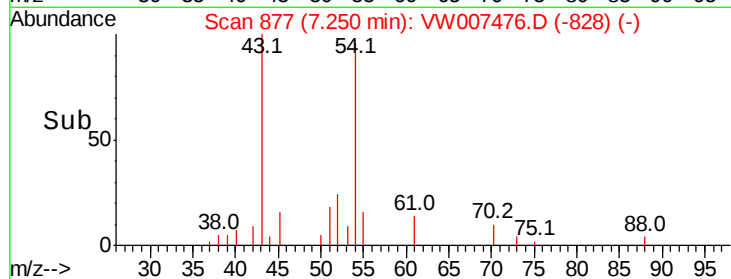
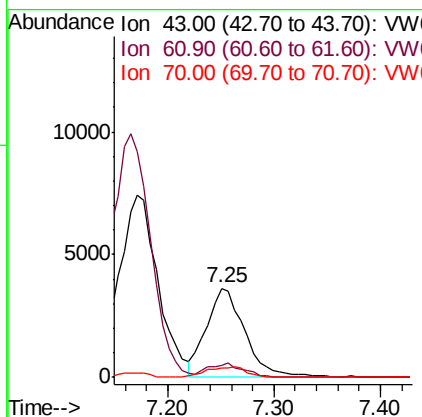
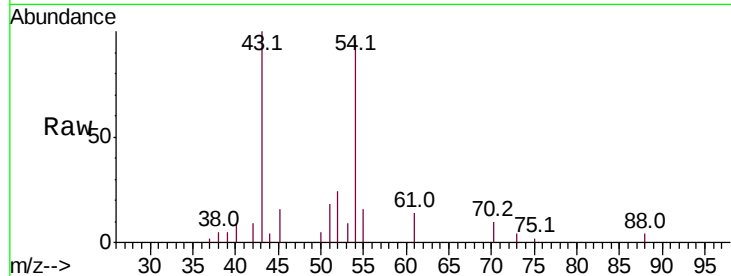
#37
Ethyl Acetate
Concen: 19.832 ug/l
RT: 7.25 min Scan# 877
Delta R.T. -0.00 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Instrument :
MSVOA_W
ClientSampleId :
VW1216SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.5	12.1	18.1
70	12.0	10.0	15.0

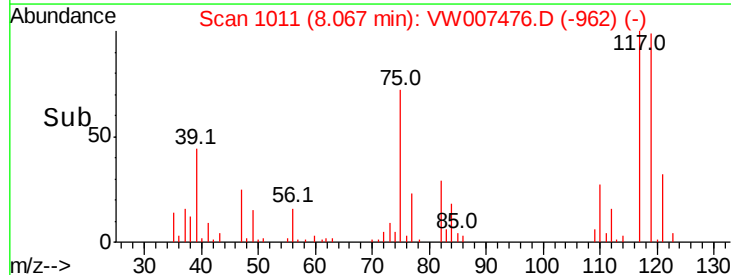
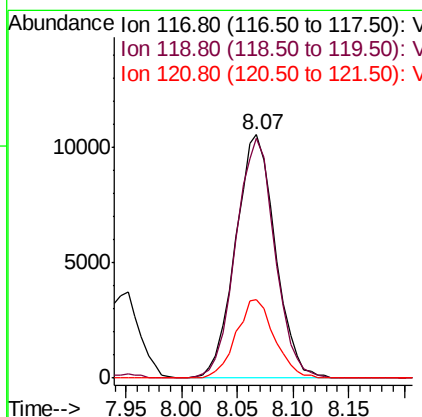
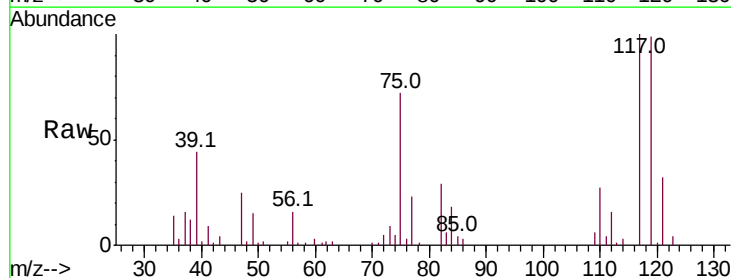
Manual Integrations
APPROVED

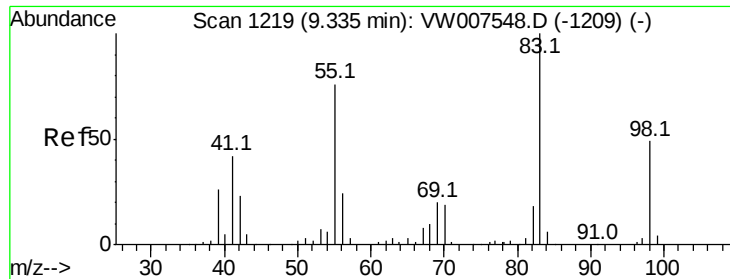
MMDadoda
12/24/2018 12:18:14 PM



#38
Carbon Tetrachloride
Concen: 19.726 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. -0.00 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.6	74.3	111.5
121	32.3	24.3	36.5





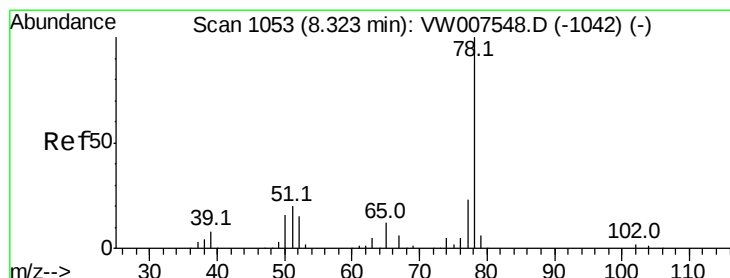
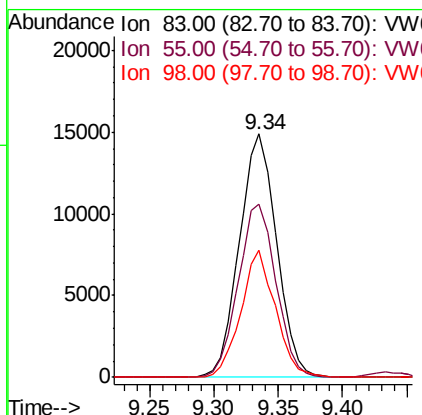
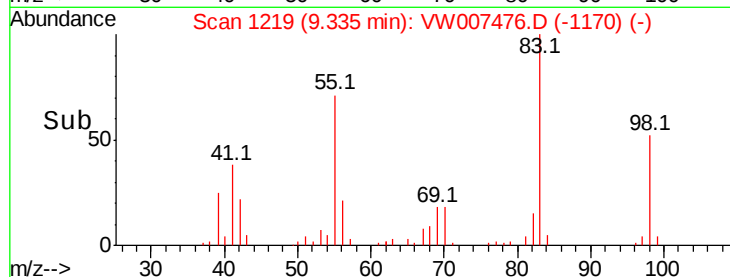
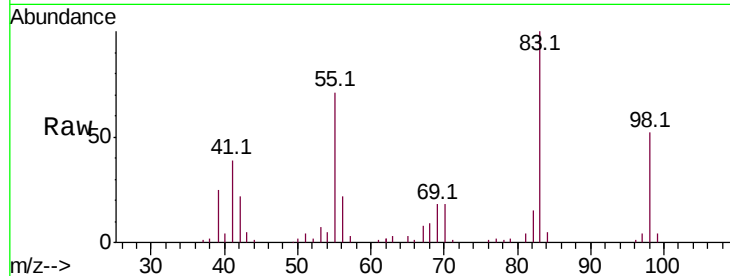
#39
Methylvlcyclohexane
Concen: 20.109 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Instrument :
MSVOA_W
ClientSampleId :
VW1216SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	71.0	62.8	94.2
98	52.3	42.2	63.2

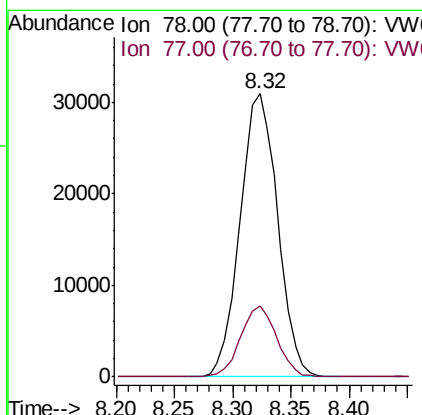
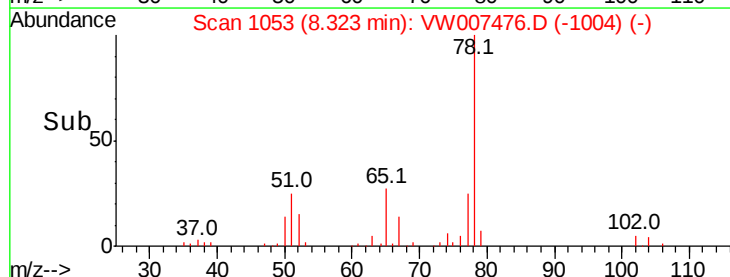
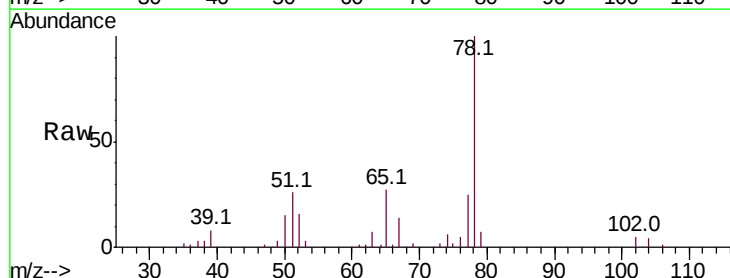
Manual Integrations
APPROVED

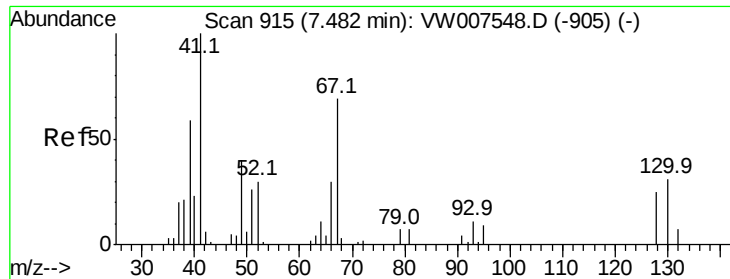
MMDadoda
12/24/2018 12:18:14 PM



#40
Benzene
Concen: 20.461 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.0	18.8	28.2





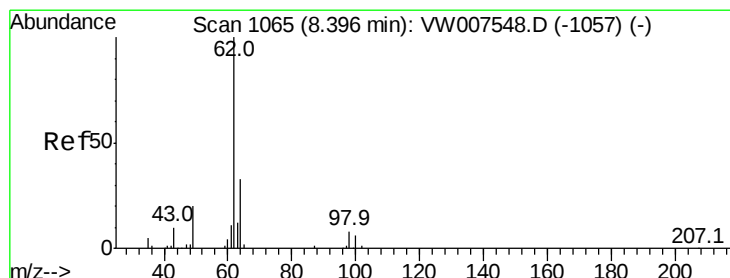
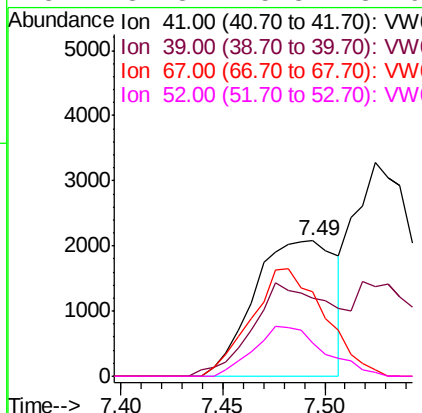
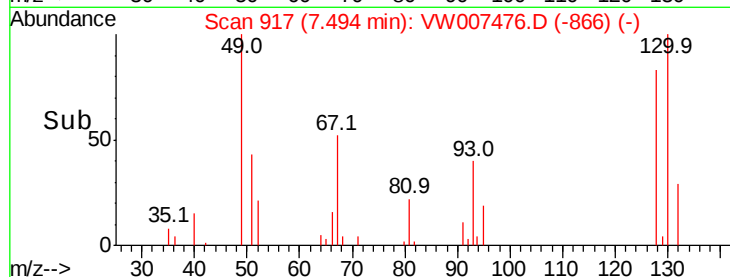
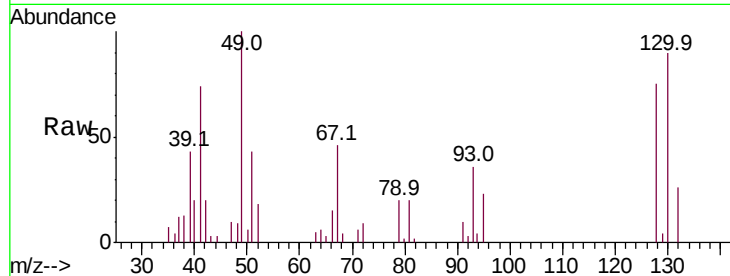
#41
Methacrylonitrile
Concen: 22.512 ug/l
RT: 7.49 min Scan# 917
Delta R.T. 0.01 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Instrument :
MSVOA_W
ClientSampleId :
VW1216SBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	69.4	52.2	78.2
67	70.8	60.5	90.7
52	31.3	25.3	37.9

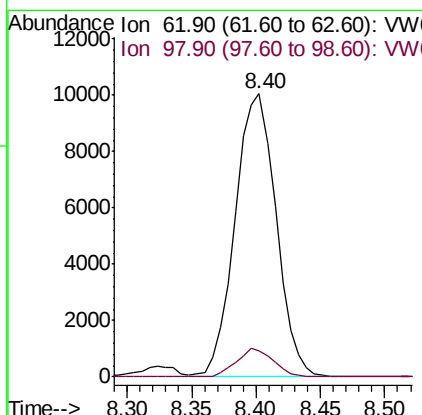
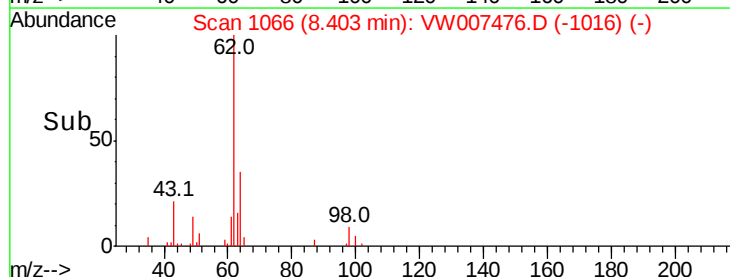
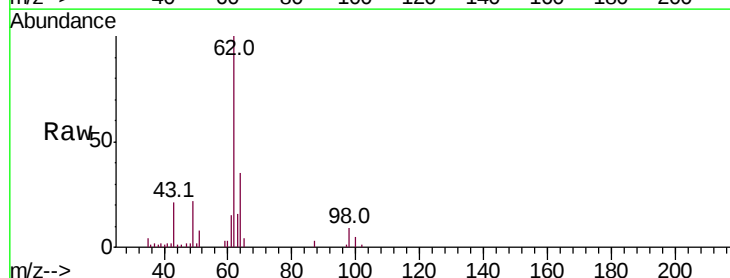
Manual Integrations
APPROVED

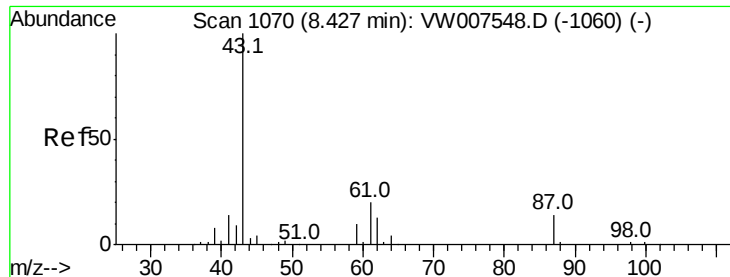
MMDadoda
12/24/2018 12:18:14 PM



#42
1,2-Dichloroethane
Concen: 20.846 ug/l
RT: 8.40 min Scan# 1066
Delta R.T. 0.01 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	17.6





#43

Isopropyl Acetate

Concen: 20.485 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. -0.00 min

Lab File: VW007476.D

Acq: 13 Dec 2018 09:59

Instrument :

MSVOA_W

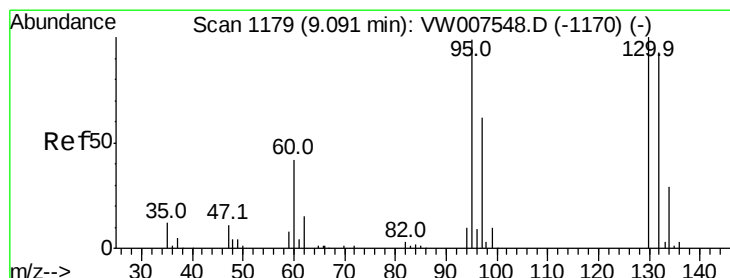
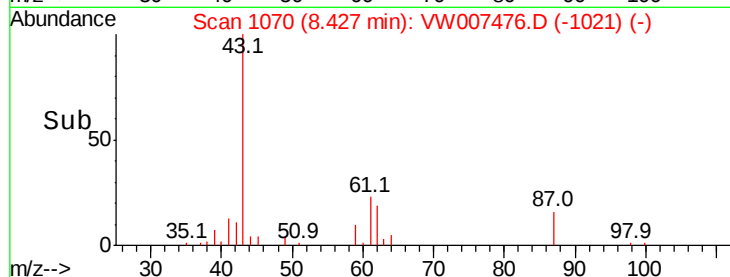
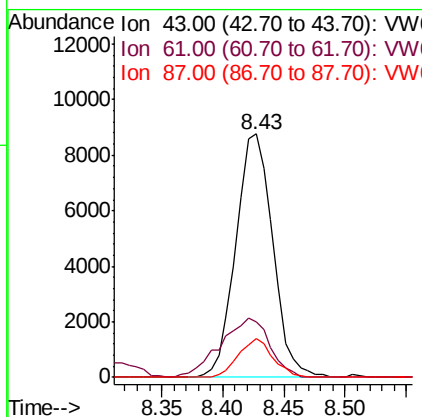
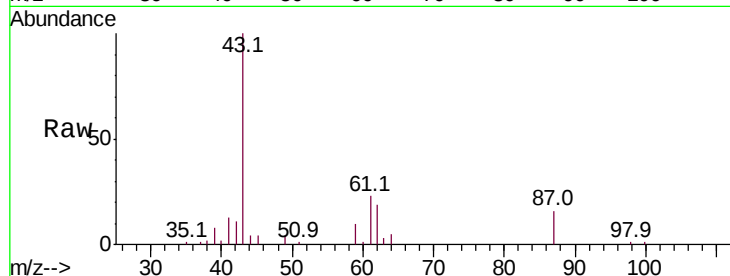
ClientSampleId :

VW1216SBS01

Tot Ion:	43	Resp:	18412
Ion	Ratio	Lower	Upper
43	100		
61	32.4	25.3	37.9
87	14.7	11.8	17.8

Manual Integrations
APPROVED

MMDadoda
12/24/2018 12:18:14 PM



#44

Trichloroethene

Concen: 21.160 ug/l

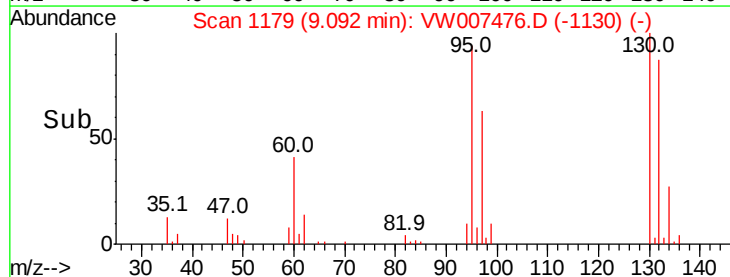
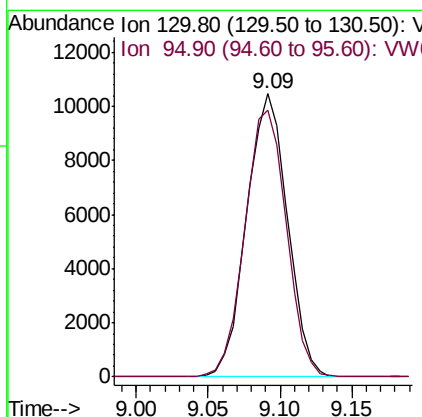
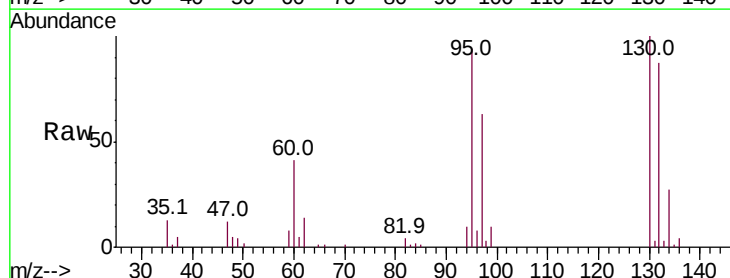
RT: 9.09 min Scan# 1179

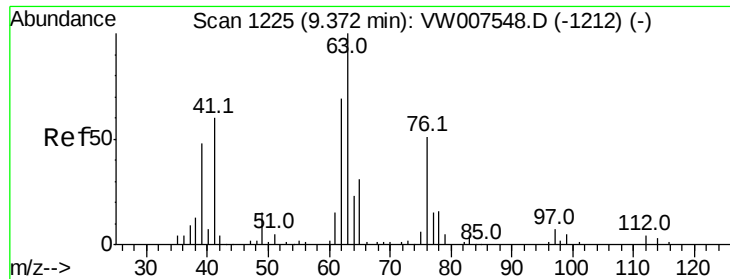
Delta R.T. -0.00 min

Lab File: VW007476.D

Acq: 13 Dec 2018 09:59

Tgt Ion:	130	Resp:	20514
Ion	Ratio	Lower	Upper
130	100		
95	94.2	0.0	193.2





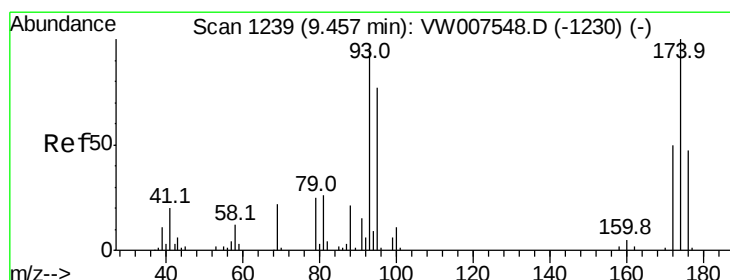
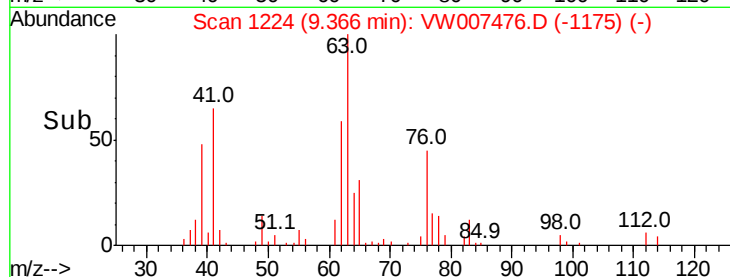
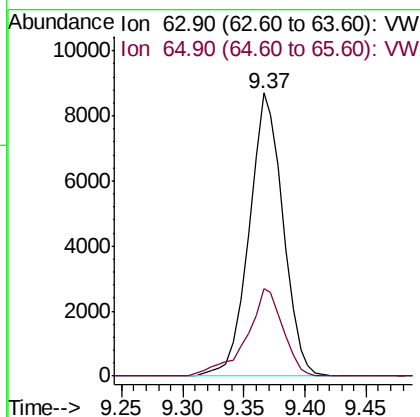
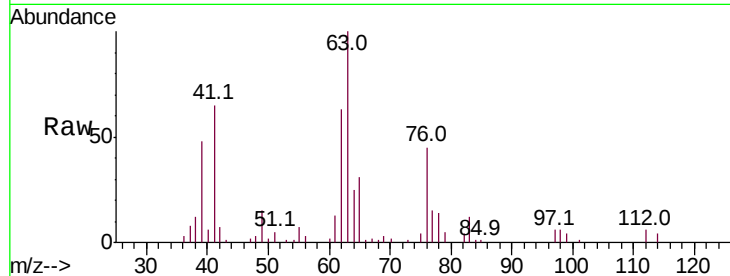
#45
 1,2-Dichloropropane
 Concen: 21.335 ug/l
 RT: 9.37 min Scan# 1224
 Delta R.T. -0.00 min
 Lab File: VW007476.D
 Acq: 13 Dec 2018 09:59

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1216SBS01

Tot Ion: 63 Resp: 16762
 Ion Ratio Lower Upper
 63 100
 65 30.8 24.4 36.6

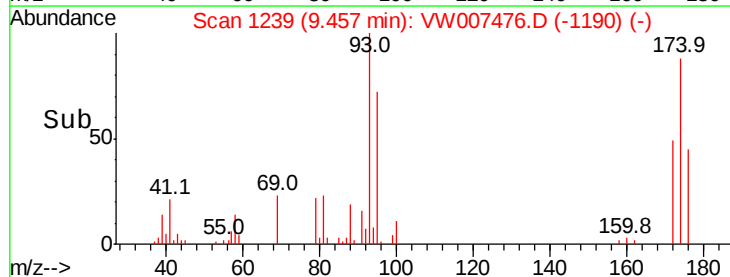
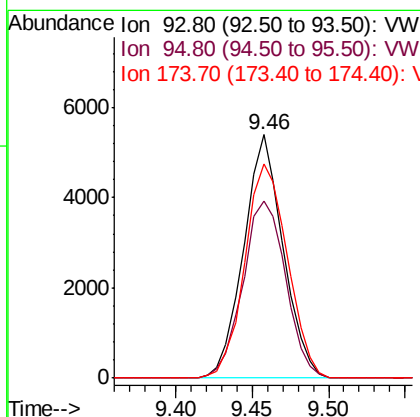
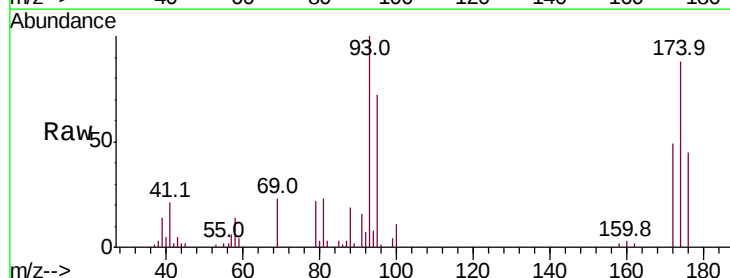
Manual Integrations
 APPROVED

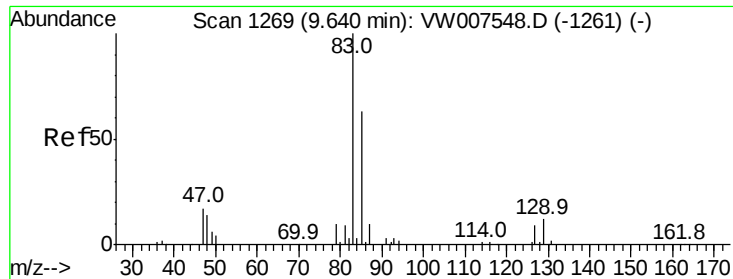
MMDadoda
 12/24/2018 12:18:14 PM



#46
 Dibromomethane
 Concen: 21.658 ug/l
 RT: 9.46 min Scan# 1239
 Delta R.T. -0.00 min
 Lab File: VW007476.D
 Acq: 13 Dec 2018 09:59

Tgt Ion: 93 Resp: 9663
 Ion Ratio Lower Upper
 93 100
 95 79.0 68.0 102.0
 174 95.0 83.2 124.8





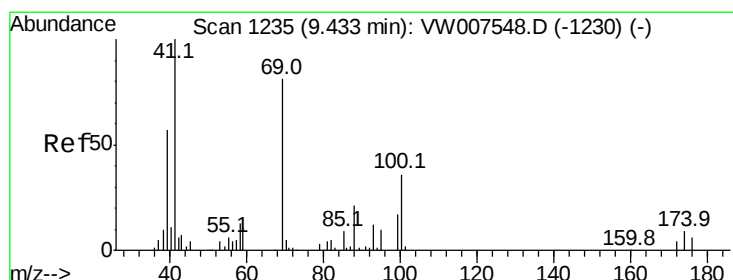
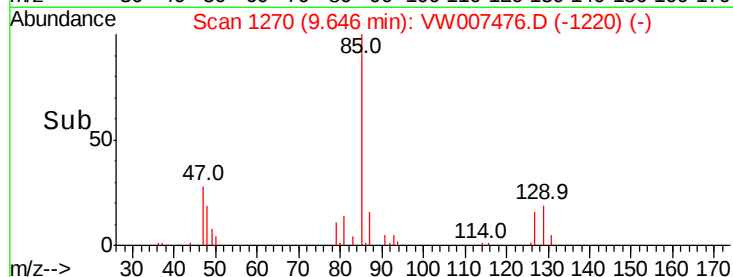
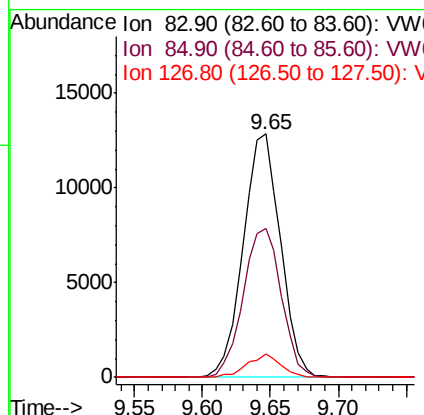
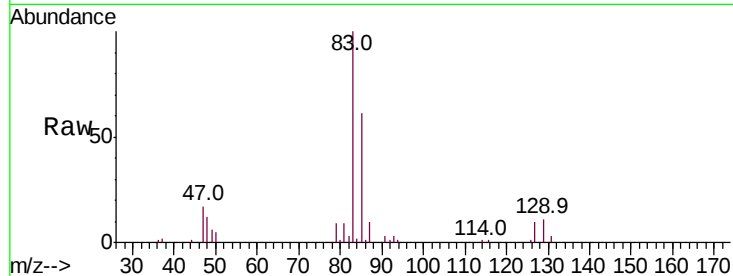
#47
Bromodichloromethane
Concen: 21.014 ug/l
RT: 9.65 min Scan# 1270
Delta R.T. 0.01 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Instrument :
MSVOA_W
ClientSampleId :
VW1216SBS01

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
85	61.1	47.6	71.4	
127	9.7	6.7	10.1	

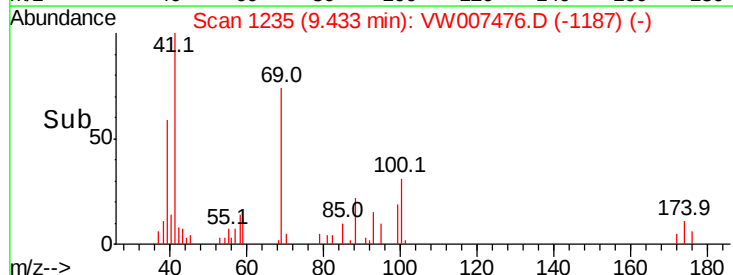
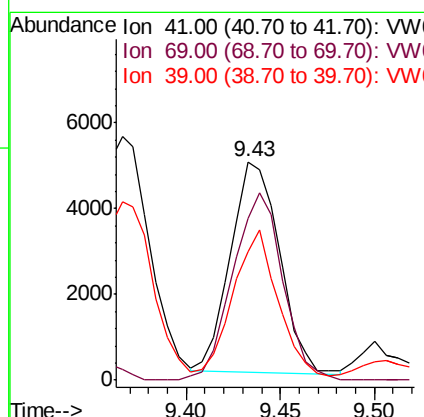
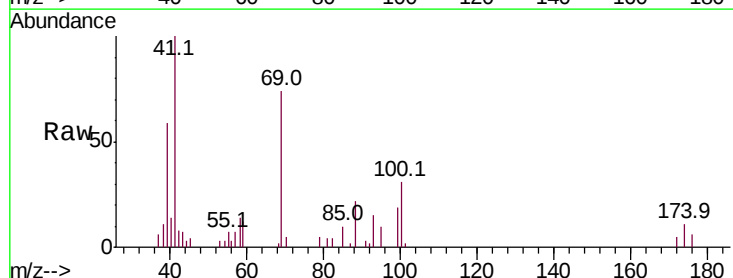
Manual Integrations
APPROVED

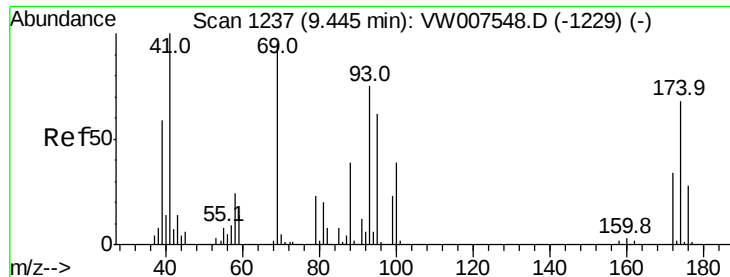
MMDadoda
12/24/2018 12:18:14 PM



#48
Methyl methacrylate
Concen: 19.359 ug/l
RT: 9.43 min Scan# 1235
Delta R.T. -0.01 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Tgt Ion	Ratio	Resp	Lower	Upper
41	100			
69	89.7	69.8	104.8	
39	67.0	50.9	76.3	





#49

1,4-Dioxane

Concen: 455.710 ug/l

RT: 9.45 min Scan# 1238

Delta R.T. -0.00 min

Lab File: VW007476.D

Acq: 13 Dec 2018 09:59

Instrument :

MSVOA_W

ClientSampleId :

VW1216SBS01

Tot Ion: 88 Resp: 3299

Ion Ratio Lower Upper

88 100

43 34.7 25.0 37.4

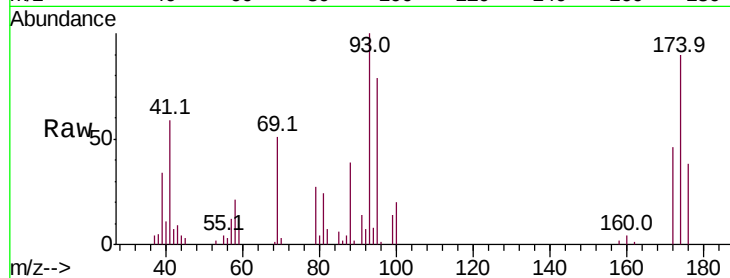
58 68.1 51.4 77.2

Manual Integrations

APPROVED

MMDadoda

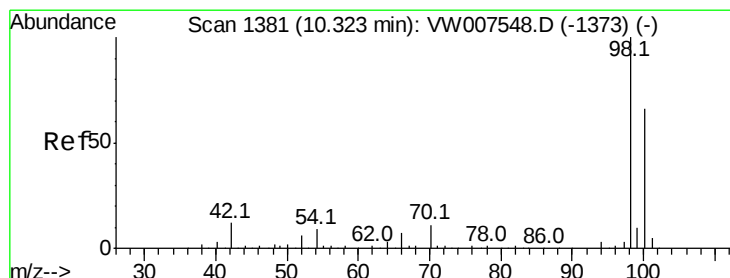
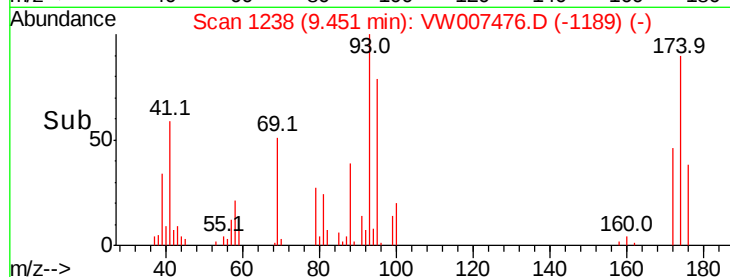
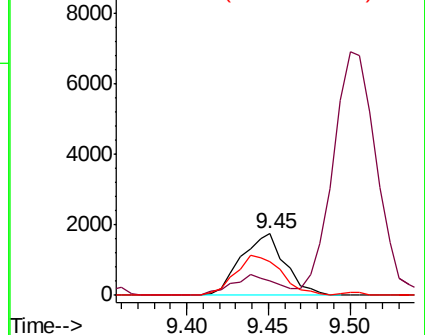
12/24/2018 12:18:14 PM



Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#50

Toluene-d8

Concen: 50.516 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW007476.D

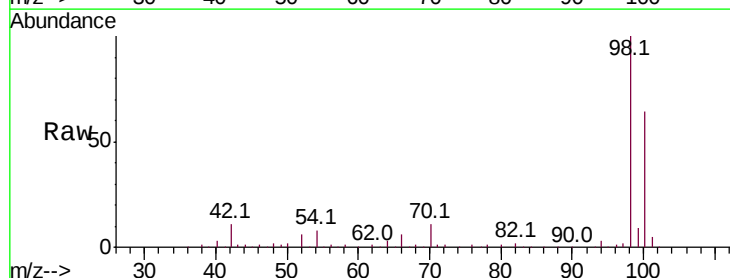
Acq: 13 Dec 2018 09:59

Tgt Ion: 98 Resp: 153759

Ion Ratio Lower Upper

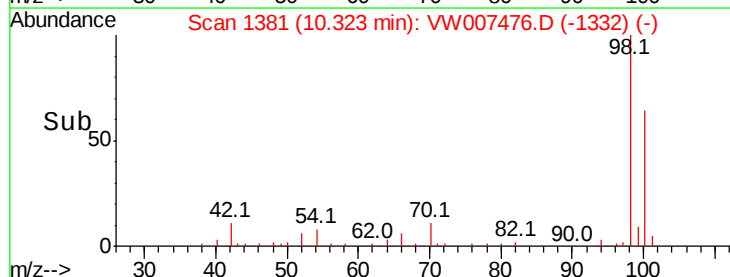
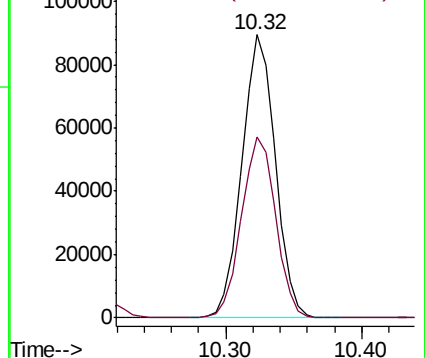
98 100

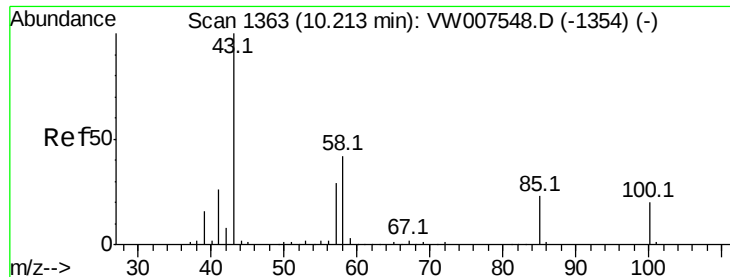
100 65.3 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#51

4-Methyl-2-Pentanone

Concen: 102.815 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW007476.D

Acq: 13 Dec 2018 09:59

Instrument :

MSVOA_W

ClientSampleId :

VW1216SBS01

Tot Ion: 43 Resp: 43663

Ion Ratio Lower Upper

43 100

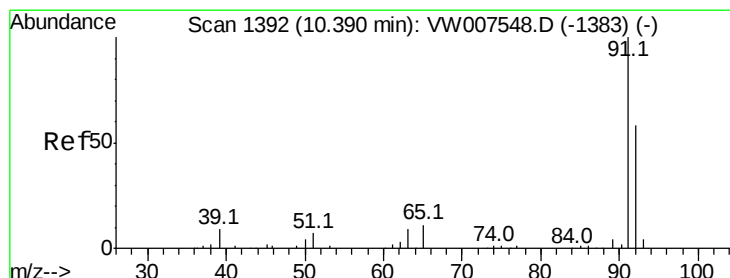
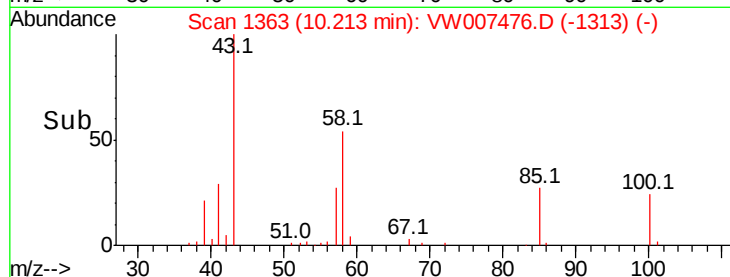
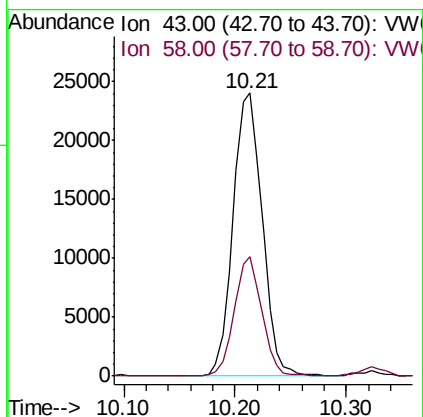
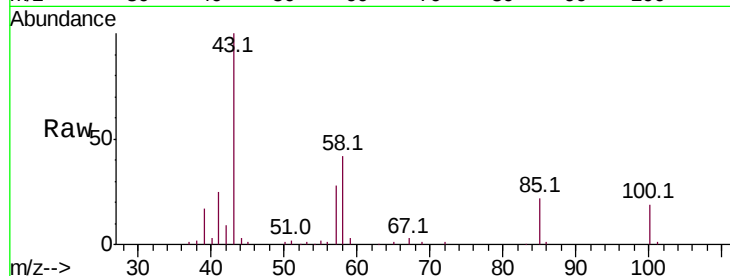
58 39.6 33.1 49.7

Manual Integrations

APPROVED

MMDadoda

12/24/2018 12:18:14 PM



#52

Toluene

Concen: 21.238 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW007476.D

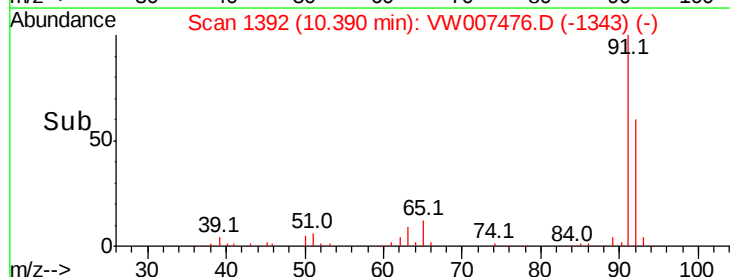
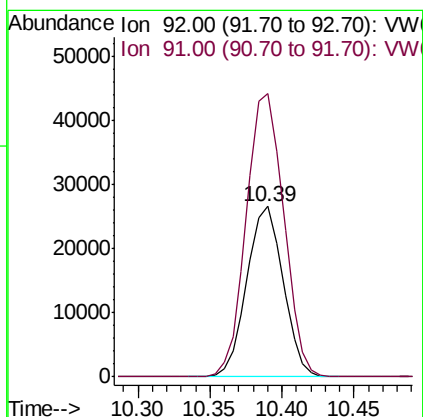
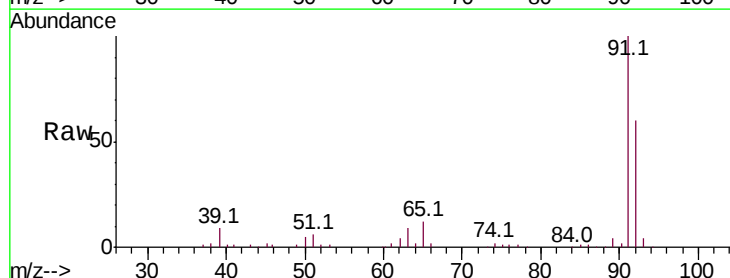
Acq: 13 Dec 2018 09:59

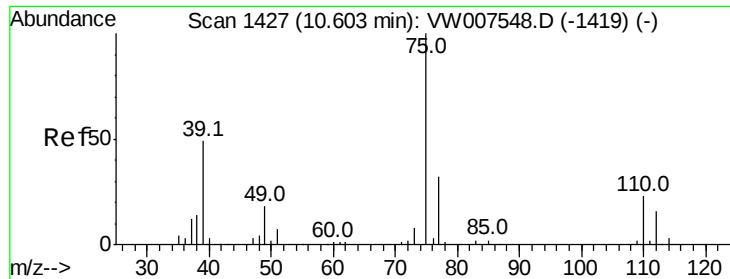
Tgt Ion: 92 Resp: 46662

Ion Ratio Lower Upper

92 100

91 170.7 136.2 204.2





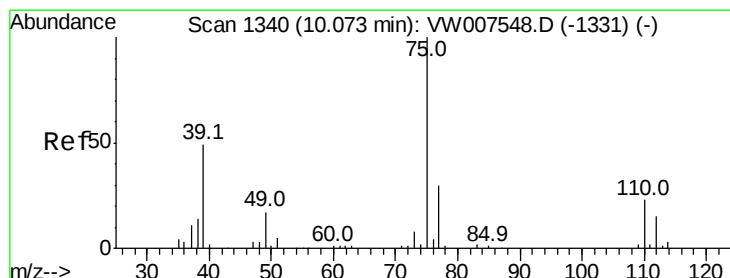
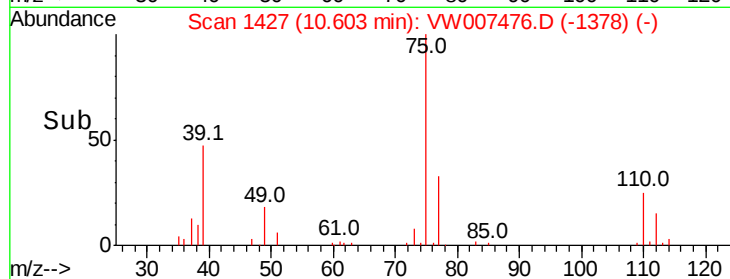
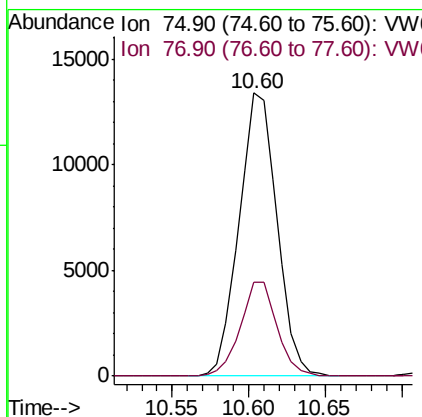
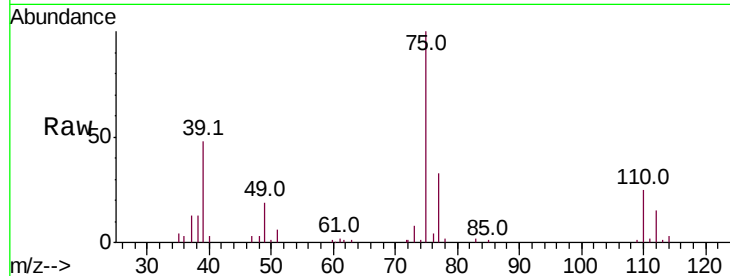
#53
 t-1,3-Dichloropropene
 Concen: 20.322 ug/l
 RT: 10.60 min Scan# 1427
 Delta R.T. -0.00 min
 Lab File: VW007476.D
 Acq: 13 Dec 2018 09:59

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1216SBS01

Tot Ion: 75 Resp: 23089
 Ion Ratio Lower Upper
 75 100
 77 33.2 26.2 39.4

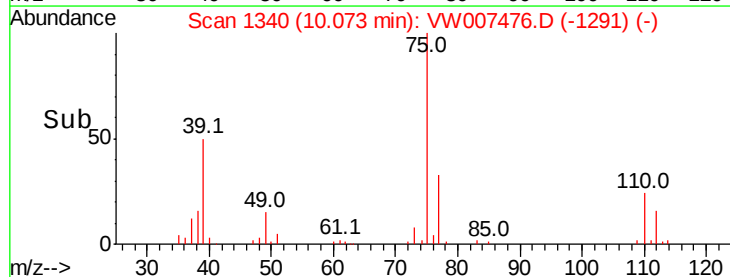
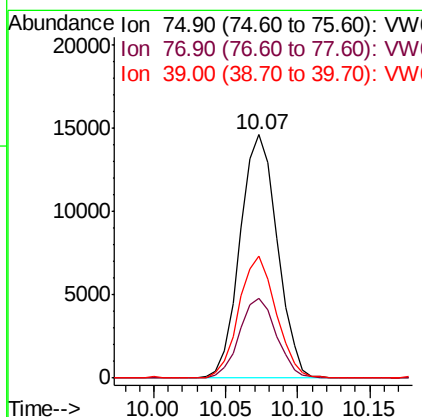
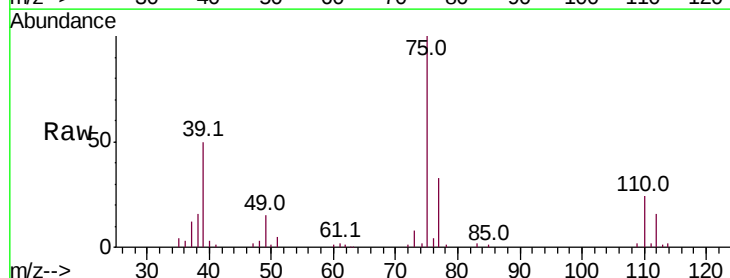
Manual Integrations
 APPROVED

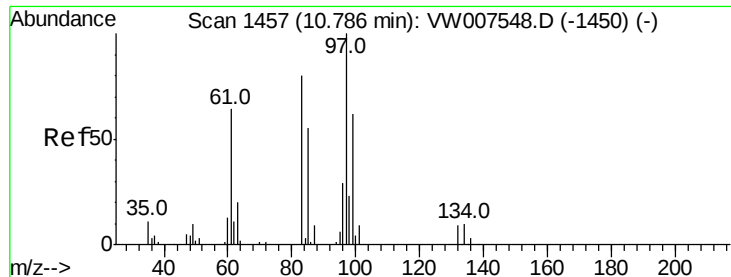
MMDadoda
 12/24/2018 12:18:14 PM



#54
 cis-1,3-Dichloropropene
 Concen: 19.944 ug/l
 RT: 10.07 min Scan# 1340
 Delta R.T. -0.00 min
 Lab File: VW007476.D
 Acq: 13 Dec 2018 09:59

Tgt Ion: 75 Resp: 26195
 Ion Ratio Lower Upper
 75 100
 77 32.9 24.8 37.2
 39 49.9 40.9 61.3





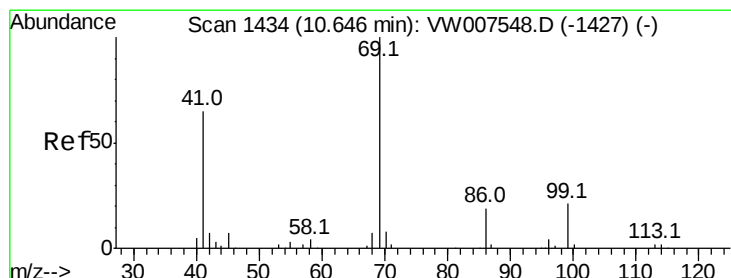
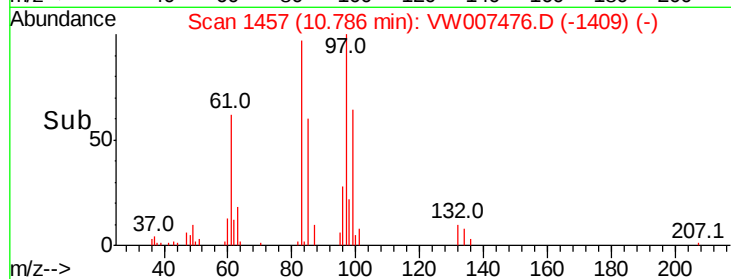
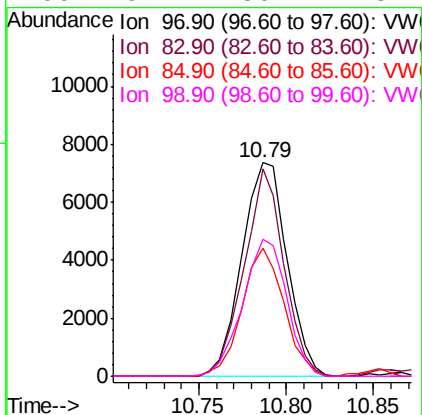
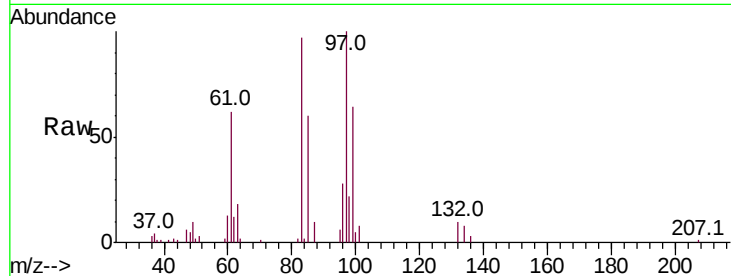
#55
 1,1,2-Trichloroethane
 Concen: 21.794 ug/l
 RT: 10.79 min Scan# 1457
 Delta R.T. -0.01 min
 Lab File: VW007476.D
 Acq: 13 Dec 2018 09:59

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1216SBS01

Tot Ion:	97	Resp:	13234
Ion	Ratio	Lower	Upper
97	100		
83	96.9	62.1	93.1#
85	60.2	44.2	66.4
99	64.1	50.2	75.4

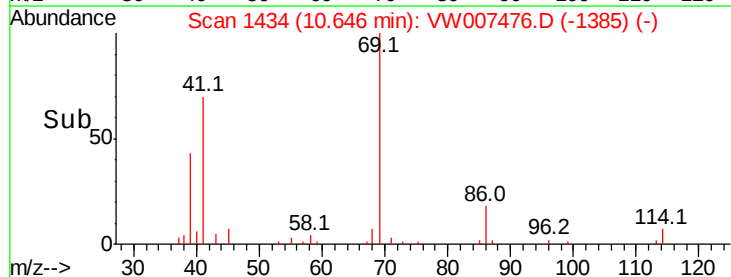
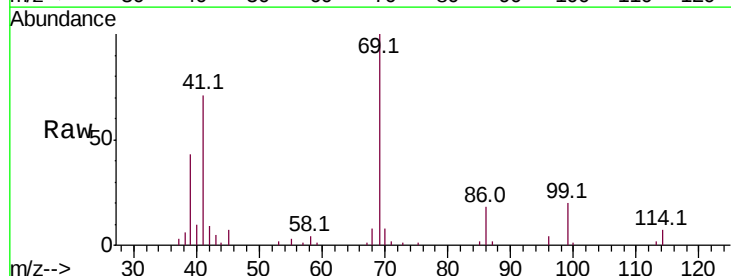
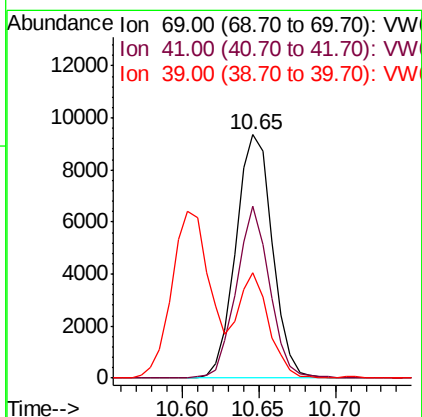
Manual Integrations
 APPROVED

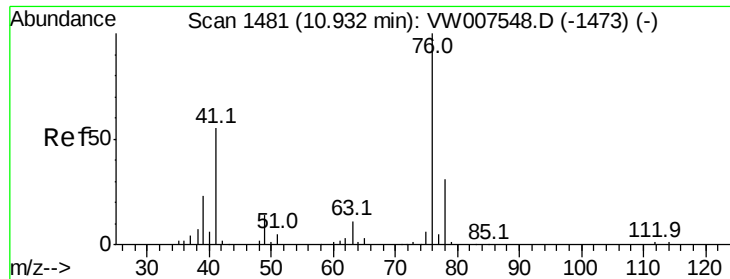
MMDadoda
 12/24/2018 12:18:14 PM



#56
 Ethyl methacrylate
 Concen: 21.238 ug/l
 RT: 10.65 min Scan# 1434
 Delta R.T. -0.00 min
 Lab File: VW007476.D
 Acq: 13 Dec 2018 09:59

Tgt Ion:	69	Resp:	15501
Ion	Ratio	Lower	Upper
69	100		
41	64.4	51.0	76.6
39	36.9	30.8	46.2





#57

1,3-Dichloropropane

Concen: 22.157 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. -0.00 min

Lab File: VW007476.D

Acq: 13 Dec 2018 09:59

Instrument :

MSVOA_W

ClientSampleId :

VW1216SBS01

Tot Ion: 76 Resp: 22083

Ion Ratio Lower Upper

76 100

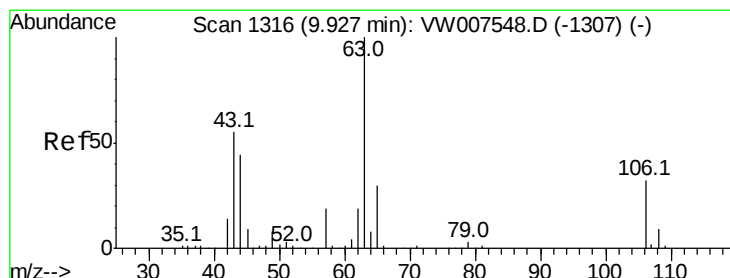
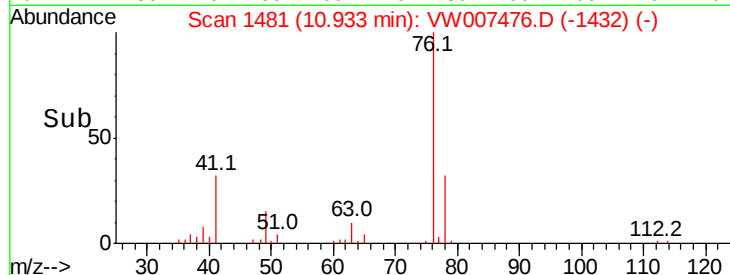
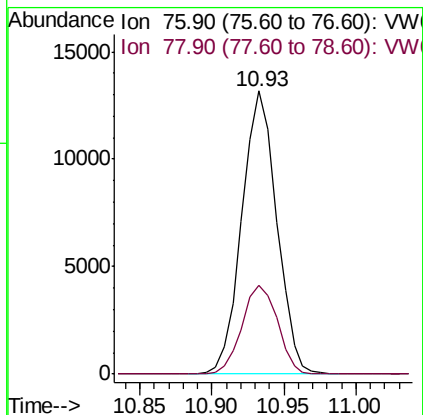
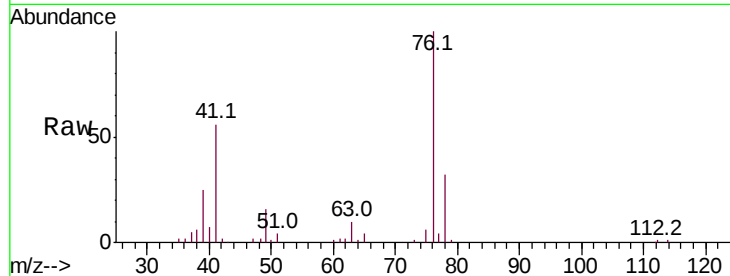
78 32.0 26.2 39.4

Manual Integrations

APPROVED

MMDadoda

12/24/2018 12:18:14 PM



#58

2-Chloroethyl Vinyl ether

Concen: 99.244 ug/l

RT: 9.93 min Scan# 1316

Delta R.T. -0.00 min

Lab File: VW007476.D

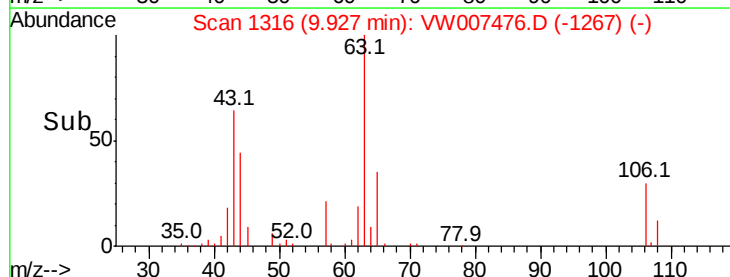
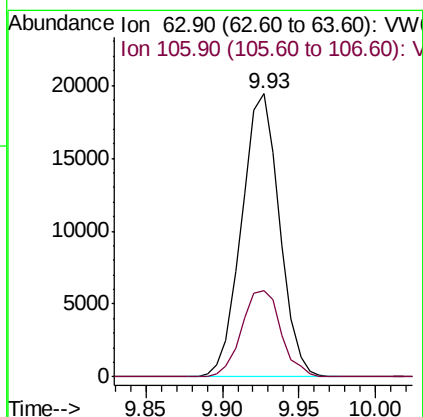
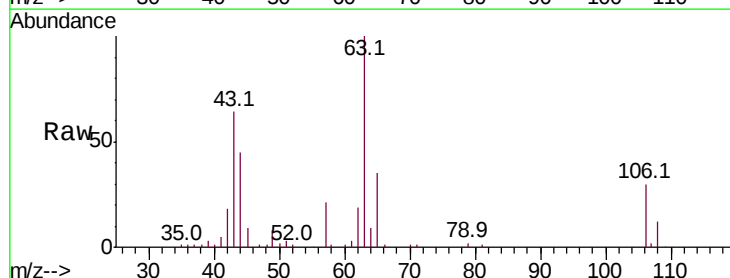
Acq: 13 Dec 2018 09:59

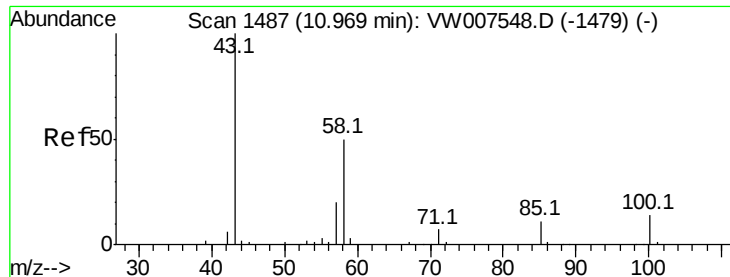
Tgt Ion: 63 Resp: 33403

Ion Ratio Lower Upper

63 100

106 31.6 25.0 37.6





#59

2-Hexanone

Concen: 102.343 ug/l

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW007476.D

Acq: 13 Dec 2018 09:59

Instrument :

MSVOA_W

ClientSampleId :

VW1216SBS01

Tot Ion: 43 Resp: 28981

Ion Ratio Lower Upper

43 100

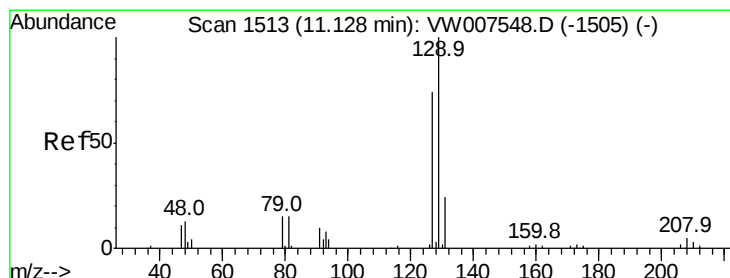
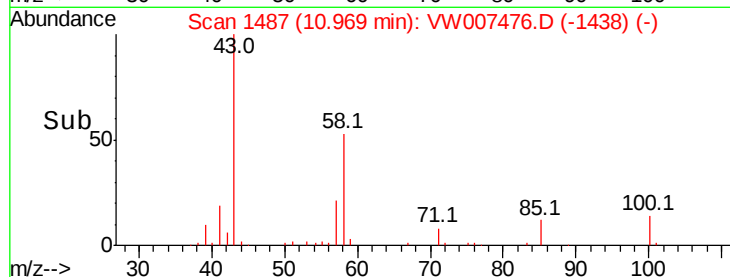
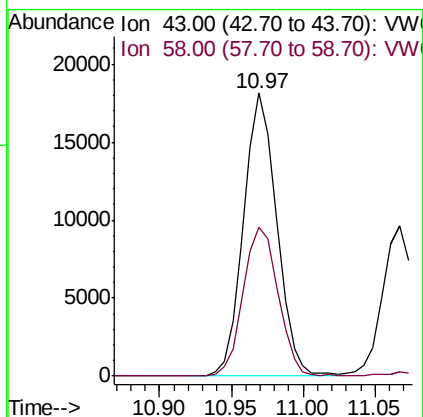
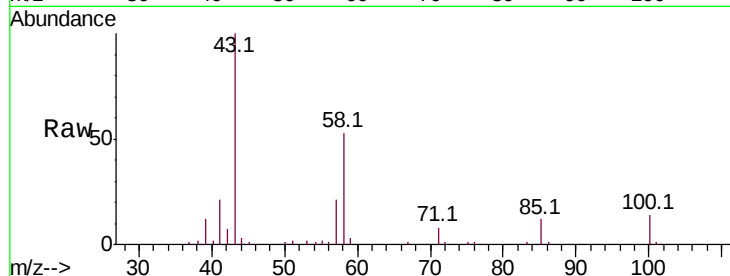
58 55.2 27.1 81.3

Manual Integrations

APPROVED

MMDadoda

12/24/2018 12:18:14 PM



#60

Dibromochloromethane

Concen: 21.367 ug/l

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW007476.D

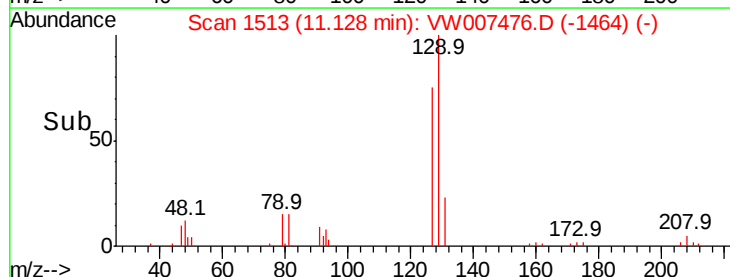
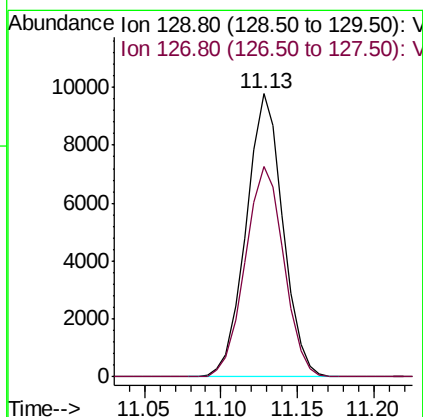
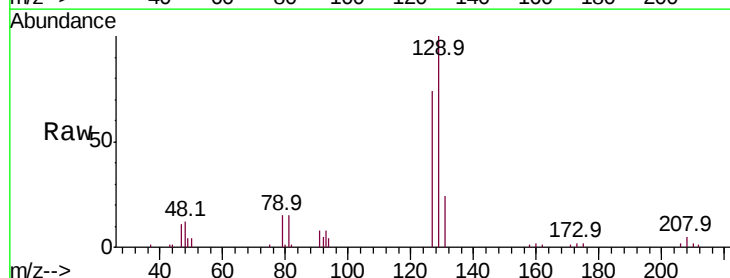
Acq: 13 Dec 2018 09:59

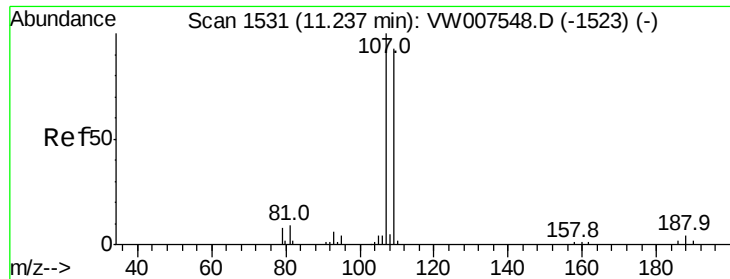
Tgt Ion: 129 Resp: 16374

Ion Ratio Lower Upper

129 100

127 77.9 38.1 114.3





#61

1,2-Dibromoethane

Concen: 21.627 ug/l

RT: 11.23 min Scan# 1530

Delta R.T. -0.01 min

Lab File: VW007476.D

Acq: 13 Dec 2018 09:59

Instrument :

MSVOA_W

ClientSampleId :

VW1216SBS01

Tot Ion:107 Resp: 12978

Ion Ratio Lower Upper

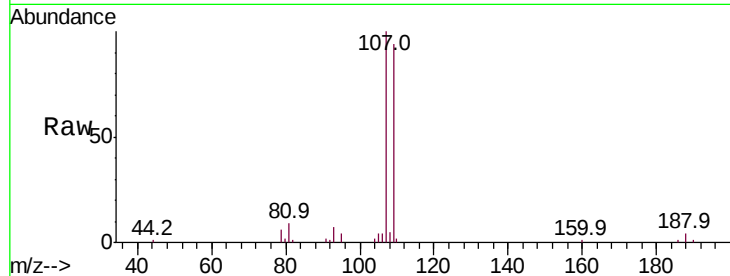
107 100

109 95.2 79.1 118.7

Manual Integrations
APPROVED

MMDadoda

12/24/2018 12:18:14 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.23

8000

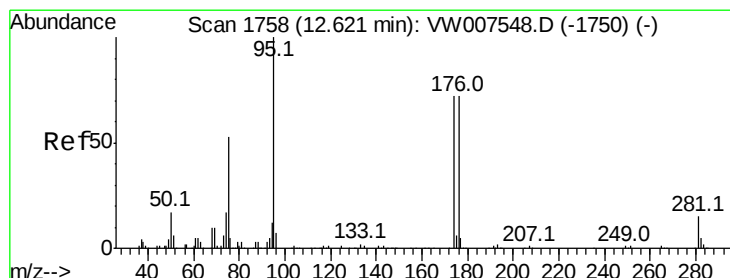
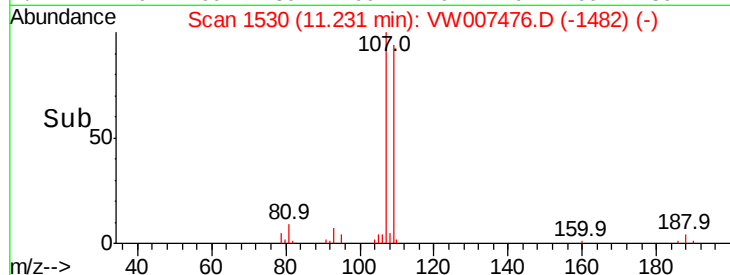
6000

4000

2000

0

Time--> 11.15 11.20 11.25 11.30



#62

4-Bromofluorobenzene

Concen: 52.064 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW007476.D

Acq: 13 Dec 2018 09:59

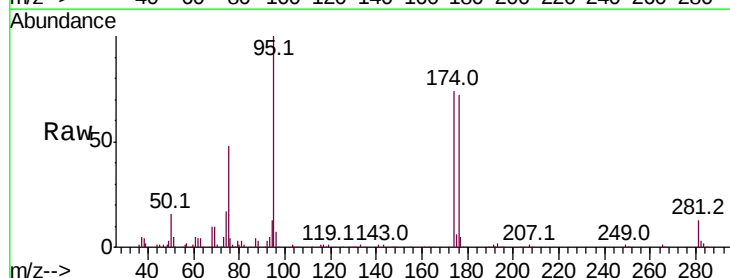
Tgt Ion: 95 Resp: 58266

Ion Ratio Lower Upper

95 100

174 75.1 0.0 147.2

176 71.8 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

50000

40000

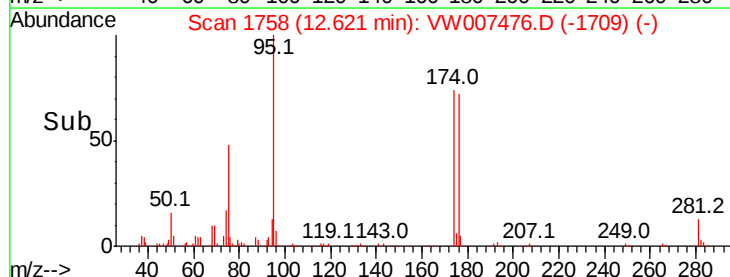
30000

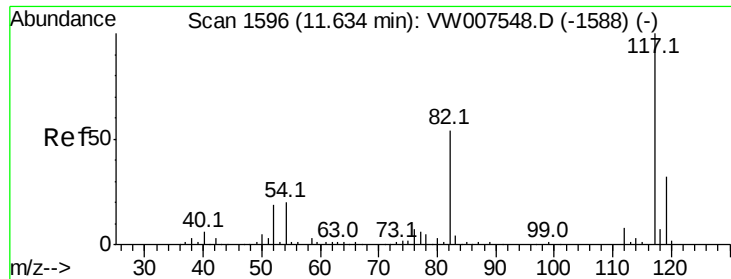
20000

10000

0

Time--> 12.55 12.60 12.65 12.70





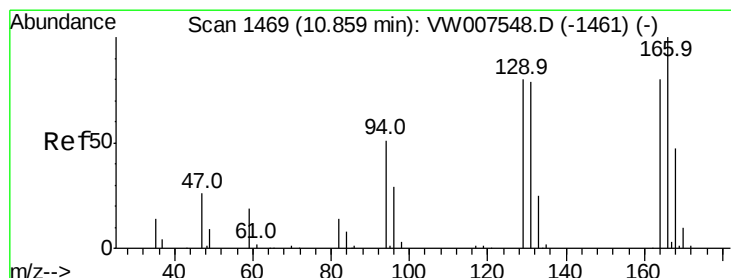
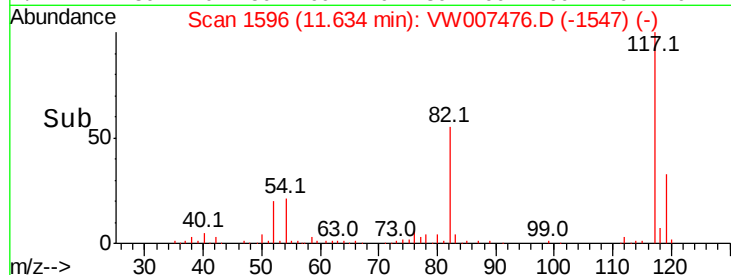
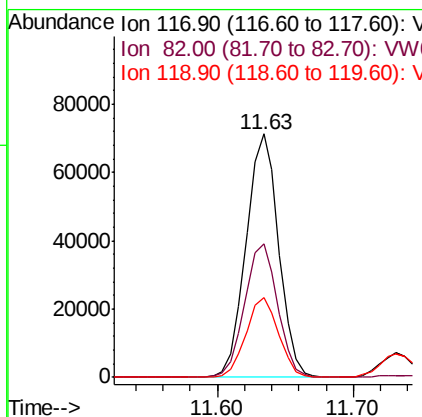
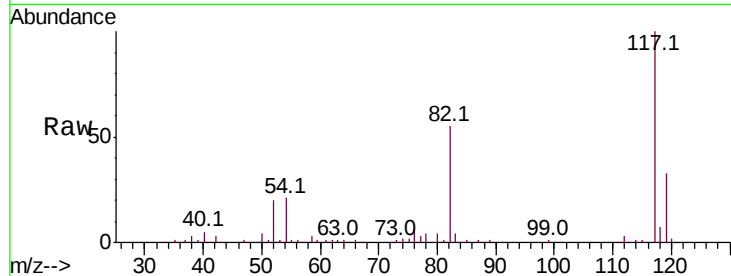
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Instrument :
MSVOA_W
ClientSampleId :
VW1216SBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.9	42.3	63.5
119	32.7	23.0	34.6

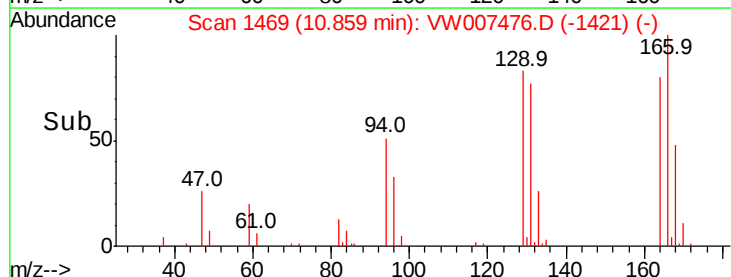
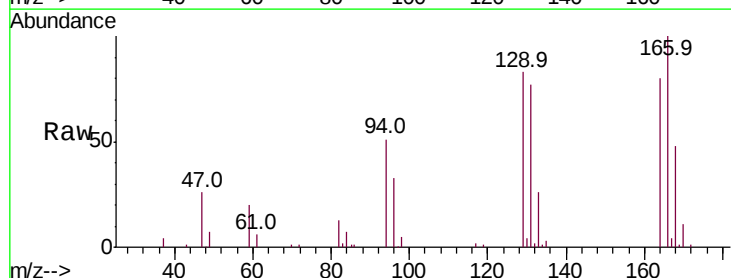
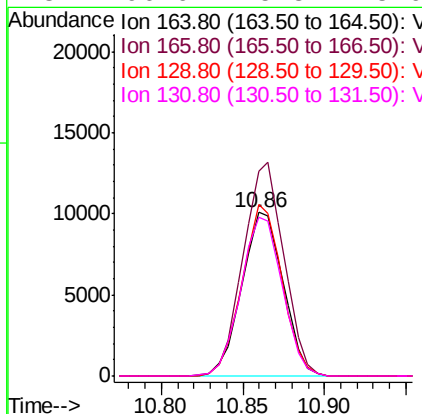
Manual Integrations
APPROVED

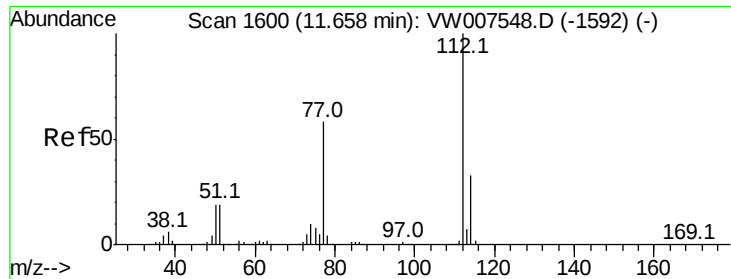
MMDadoda
12/24/2018 12:18:14 PM



#64
Tetrachloroethene
Concen: 20.719 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. -0.01 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.5	107.9	161.9
129	104.5	73.4	110.2
131	96.6	75.8	113.6





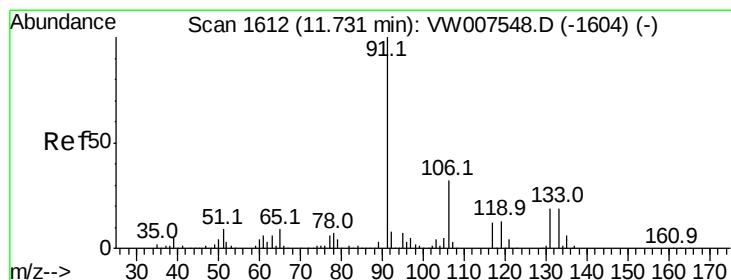
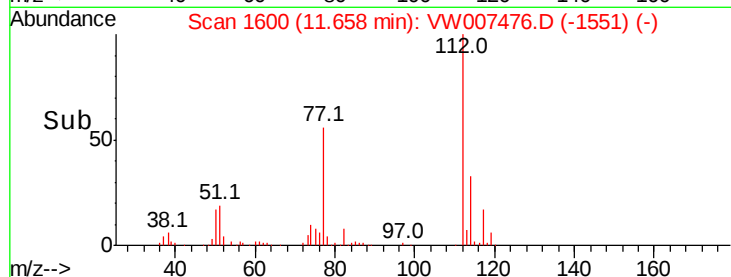
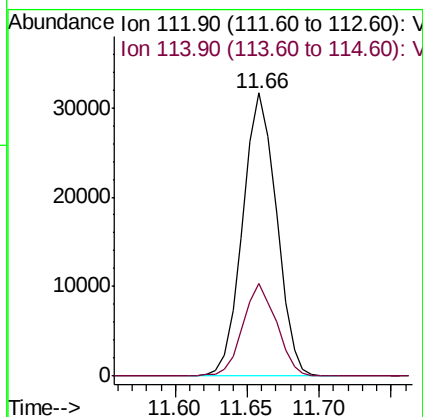
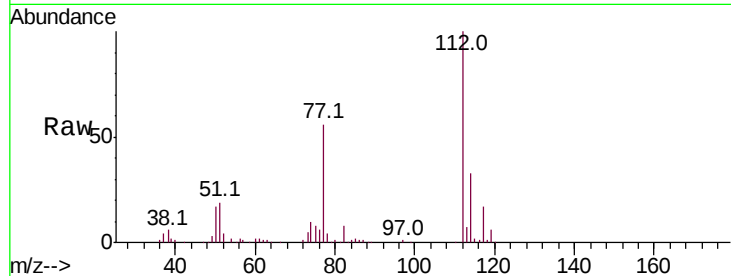
#65
Chlorobenzene
Concen: 20.713 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Instrument :
MSVOA_W
ClientSampleId :
VW1216SBS01

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.9	27.8	41.8

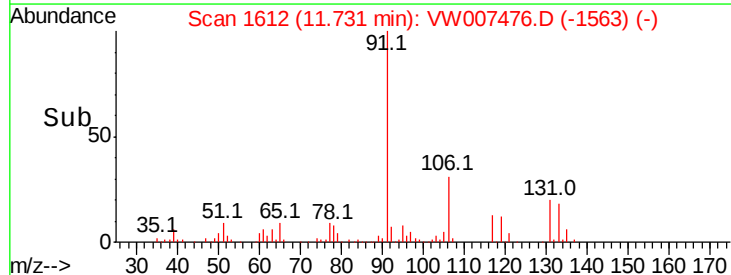
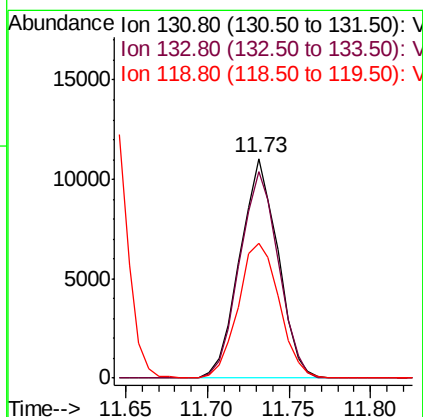
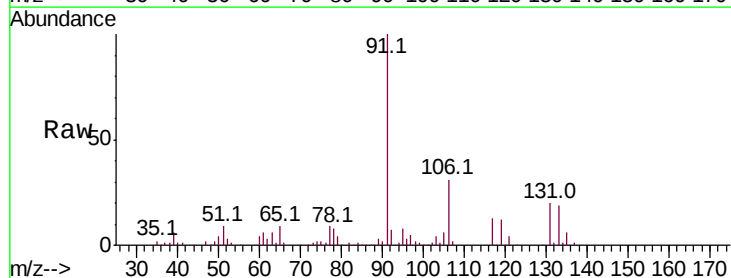
Manual Integrations
APPROVED

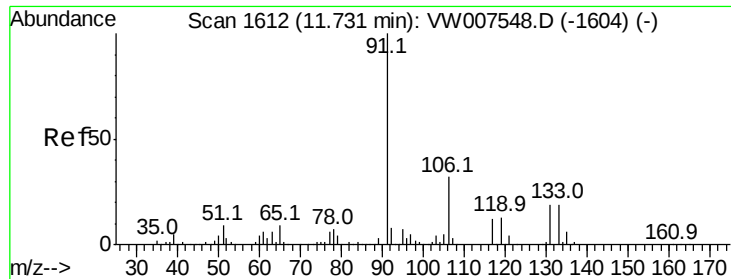
MMDadoda
12/24/2018 12:18:14 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.471 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.0	47.1	141.4
119	66.2	31.3	93.9





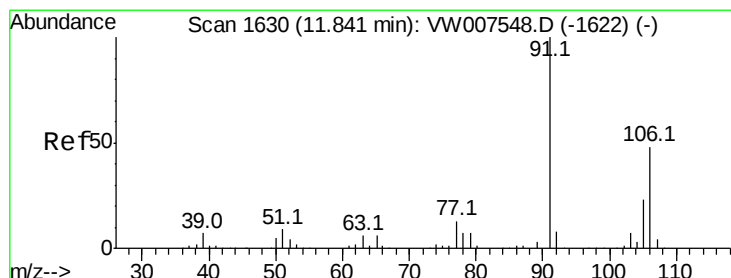
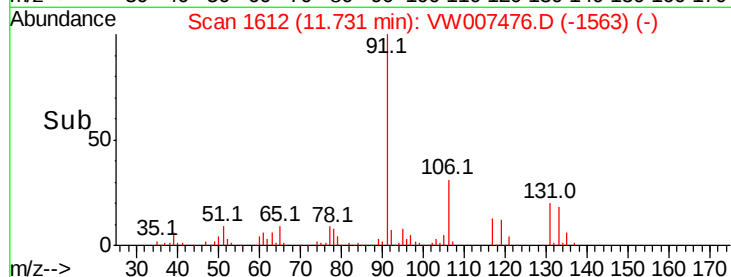
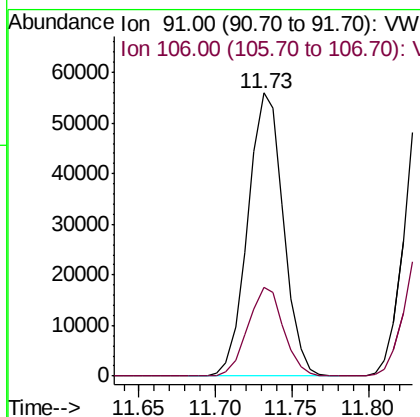
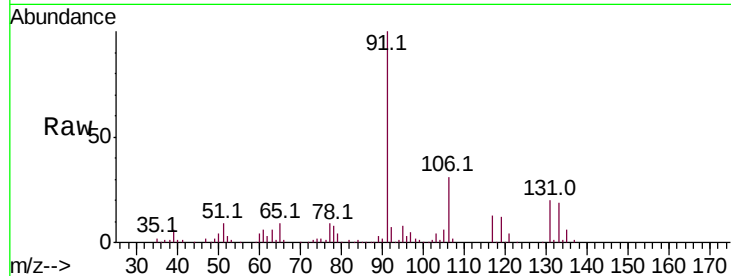
#67
Ethyl Benzene
Concen: 21.124 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Instrument :
MSVOA_W
ClientSampleId :
VW1216SBS01

Tot Ion: 91 Resp: 90481
Ion Ratio Lower Upper
91 100
106 31.2 21.8 32.8

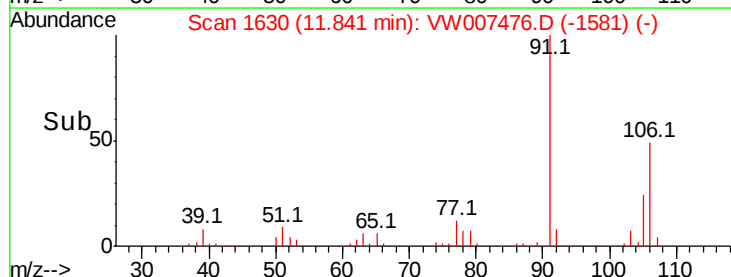
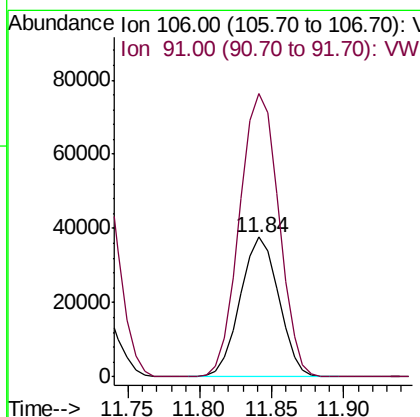
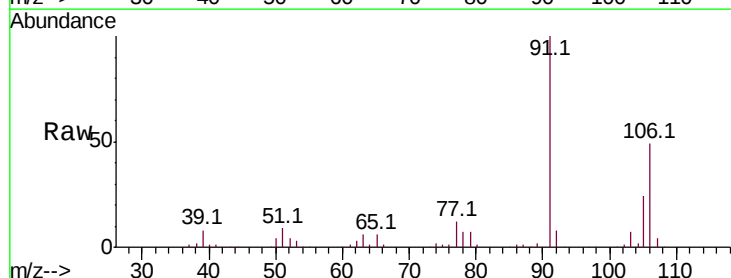
Manual Integrations
APPROVED

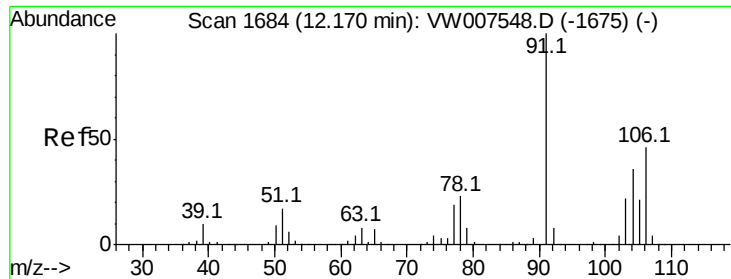
MMDadoda
12/24/2018 12:18:14 PM



#68
m/p-Xylenes
Concen: 41.969 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Tgt Ion: 106 Resp: 69886
Ion Ratio Lower Upper
106 100
91 207.4 165.3 247.9





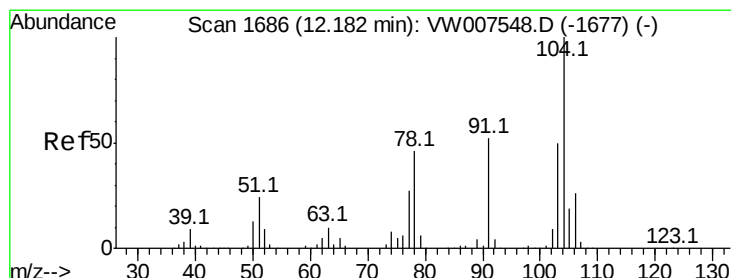
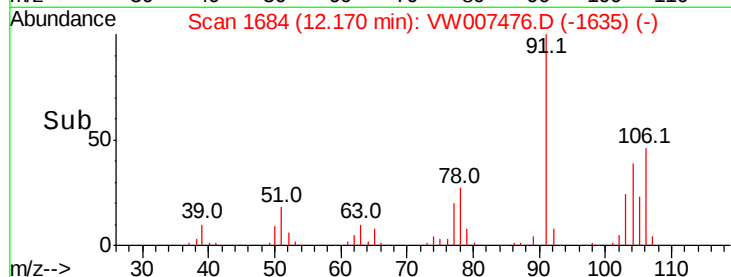
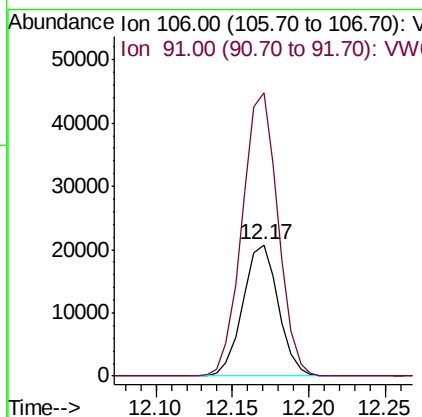
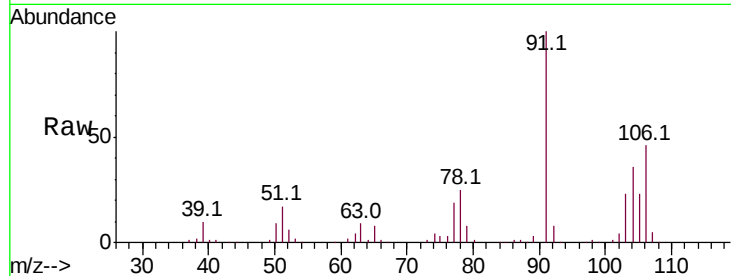
#69
o-Xylene
Concen: 21.485 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Instrument :
MSVOA_W
ClientSampleId :
VW1216SBS01

Tot Ion:106 Resp: 33413
Ion Ratio Lower Upper
106 100
91 217.7 106.6 319.8

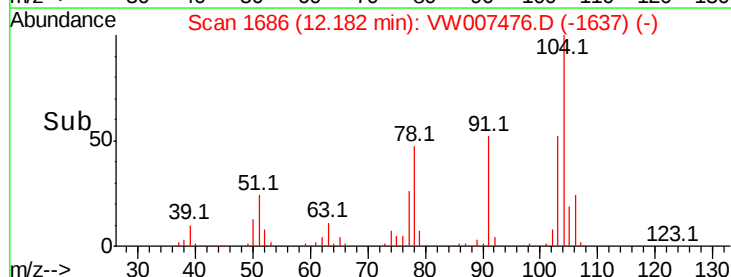
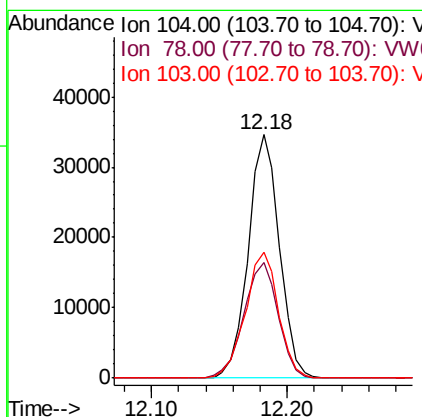
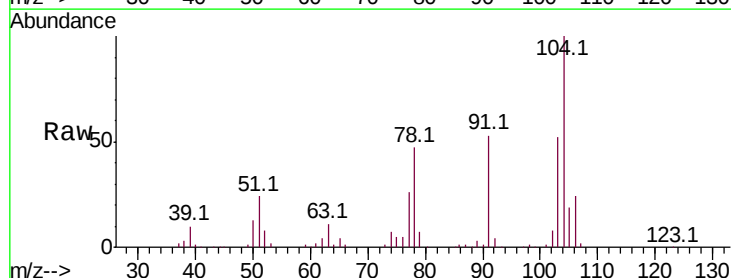
Manual Integrations
APPROVED

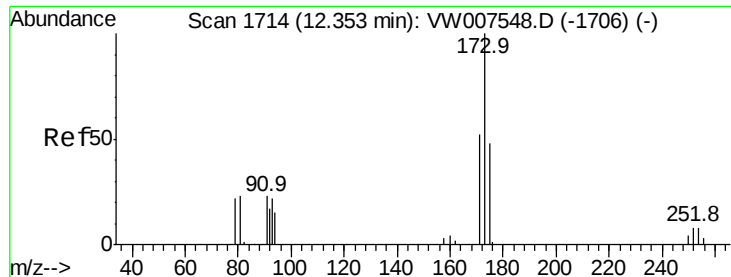
MMDadoda
12/24/2018 12:18:14 PM



#70
Styrene
Concen: 22.111 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Tgt Ion:104 Resp: 55540
Ion Ratio Lower Upper
104 100
78 52.2 41.8 62.8
103 55.1 46.6 69.8





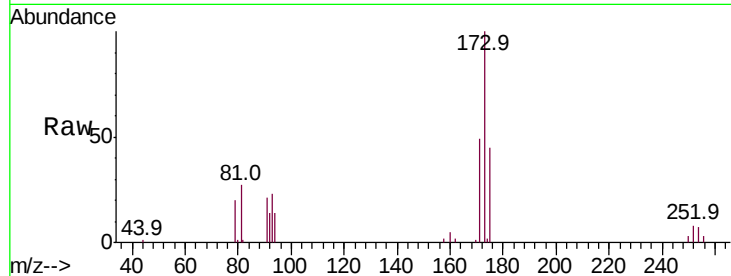
#71
Bromoform
Concen: 20.048 ug/l
RT: 12.35 min Scan# 1713
Delta R.T. -0.00 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Instrument :
MSVOA_W
ClientSampleId :
VW1216SBS01

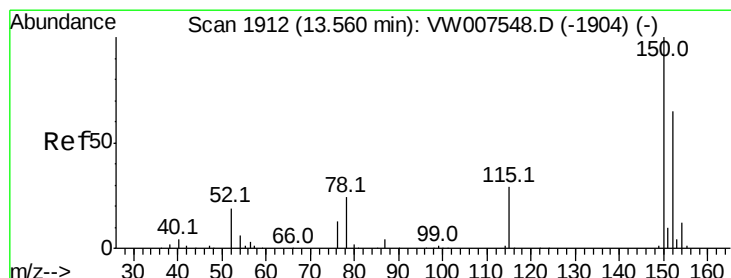
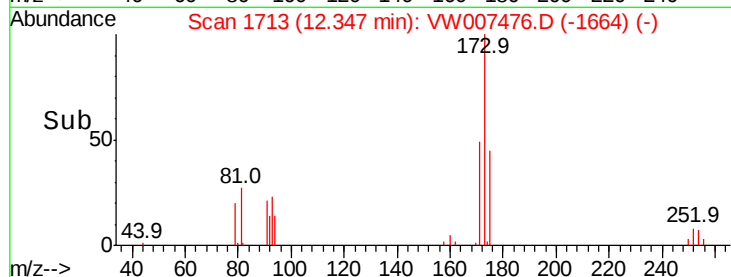
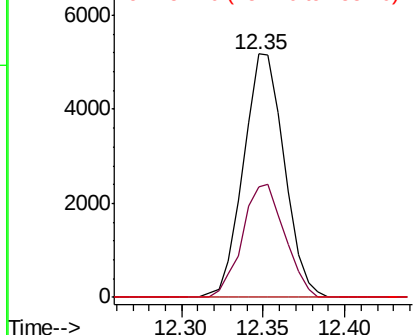
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.1	23.6	70.8
254	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
12/24/2018 12:18:14 PM

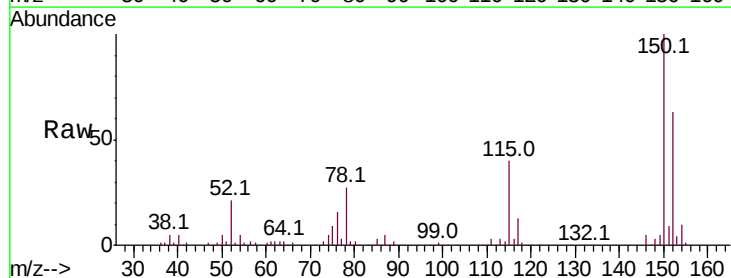


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

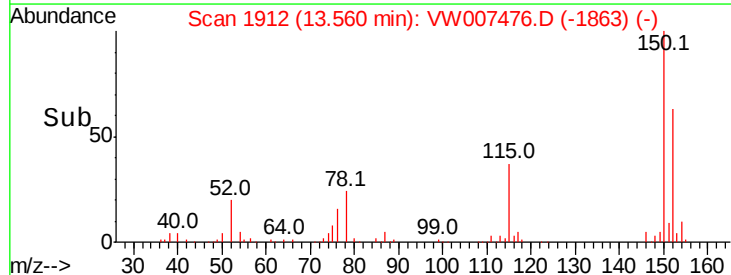
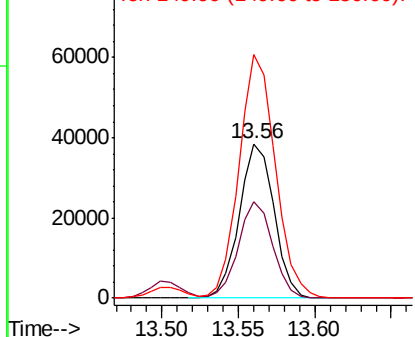


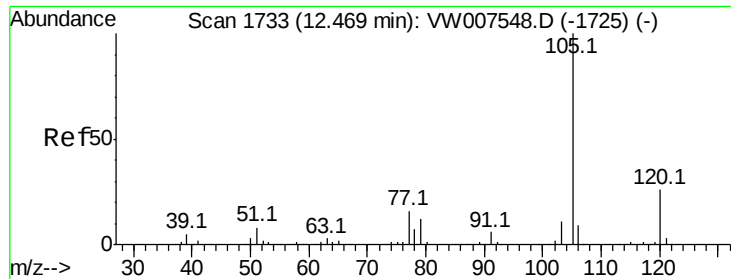
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Tgt Ion	Ratio	Lower	Upper
152	100		
115	61.4	31.4	94.2
150	164.8	0.0	358.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.053 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW007476.D

Acq: 13 Dec 2018 09:59

Instrument :

MSVOA_W

ClientSampleId :

VW1216SBS01

Tot Ion:105 Resp: 93237

Ion Ratio Lower Upper

105 100

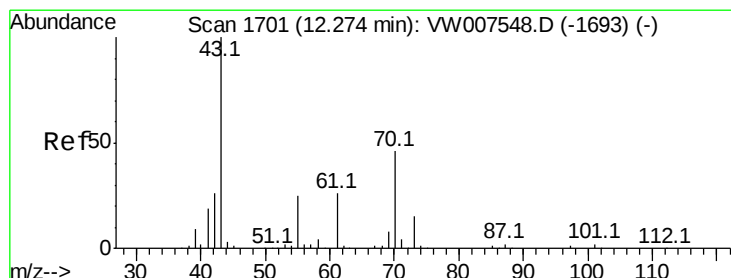
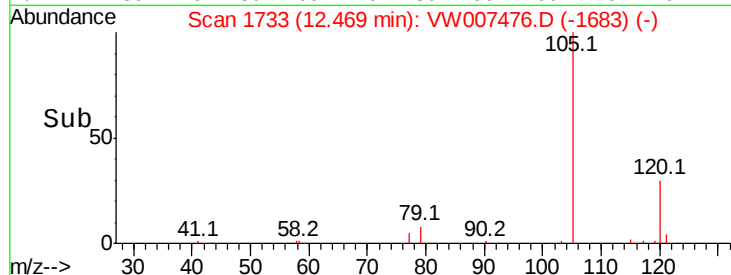
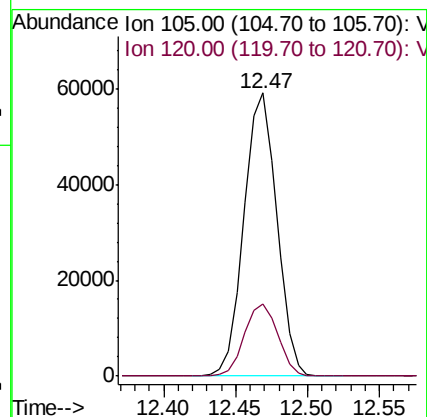
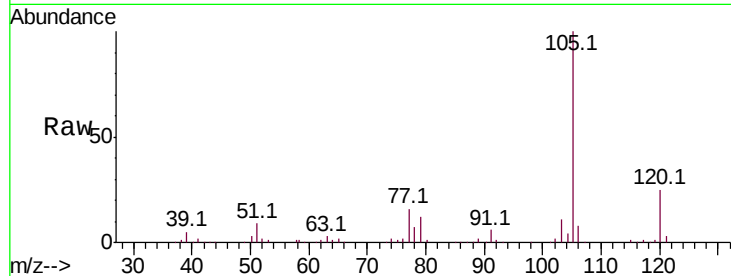
120 26.0 12.8 38.4

Manual Integrations

APPROVED

MMDadoda

12/24/2018 12:18:14 PM



#74

N-ethyl acetate

Concen: 19.762 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VW007476.D

Acq: 13 Dec 2018 09:59

Tgt Ion: 43 Resp: 16699

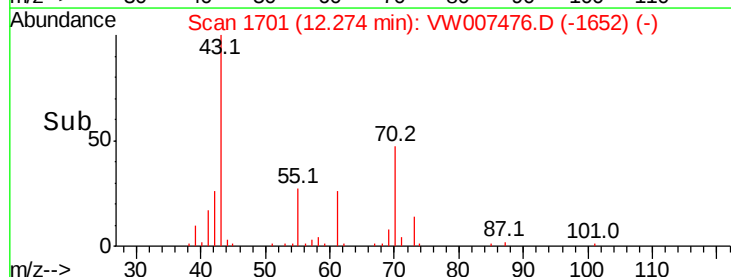
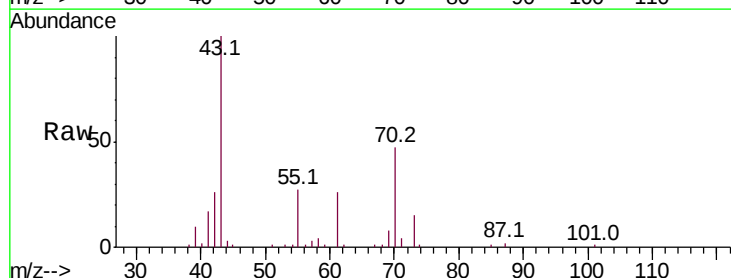
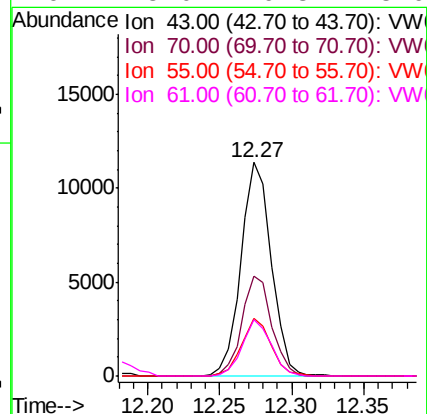
Ion Ratio Lower Upper

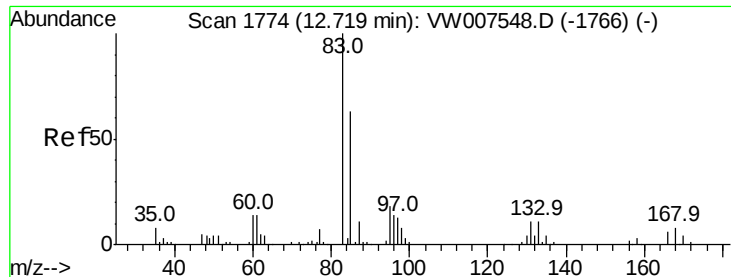
43 100

70 45.7 36.5 54.7

55 26.2 20.1 30.1

61 25.0 19.3 28.9





#75

1,1,2,2-Tetrachloroethane

Concen: 20.679 ug/l

RT: 12.72 min Scan# 1774

Delta R.T. -0.00 min

Lab File: VW007476.D

Acq: 13 Dec 2018 09:59

Instrument :

MSVOA_W

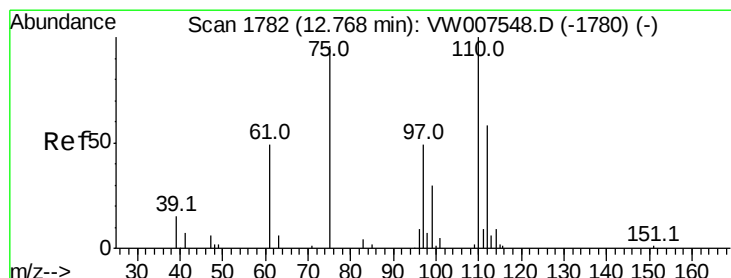
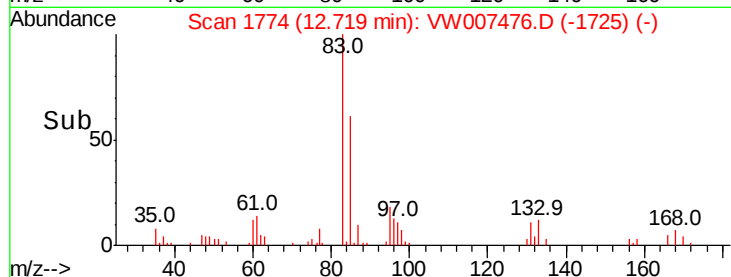
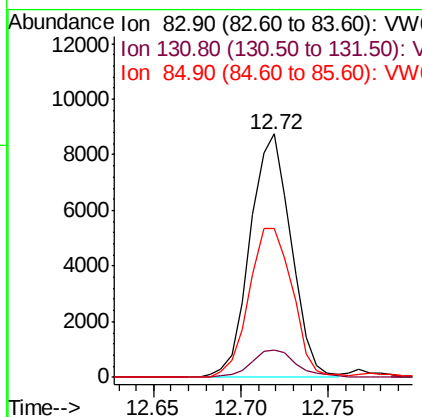
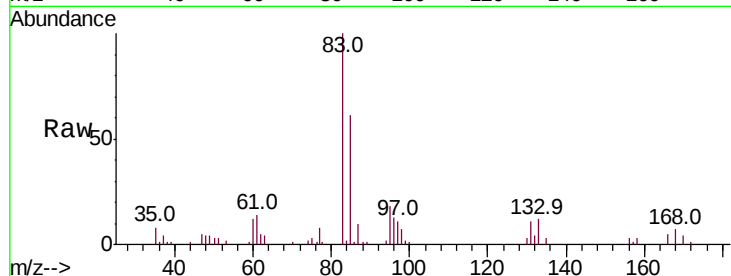
ClientSampleId :

VW1216SBS01

Tot Ion:	83	Resp:	14241
Ion Ratio	Lower	Upper	
83	100		
131	12.4	5.9	17.8
85	65.1	30.0	90.0

Manual Integrations
APPROVED

MMDadoda
12/24/2018 12:18:14 PM



#76

1,2,3-Trichloropropane

Concen: 17.055 ug/l m

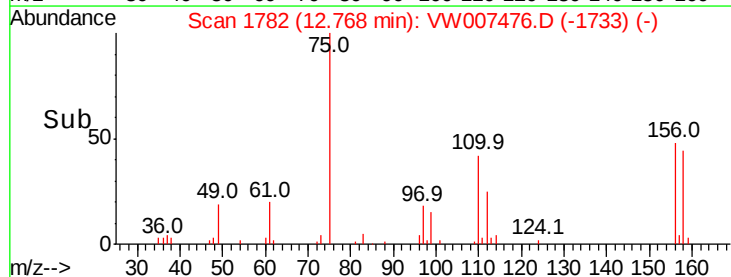
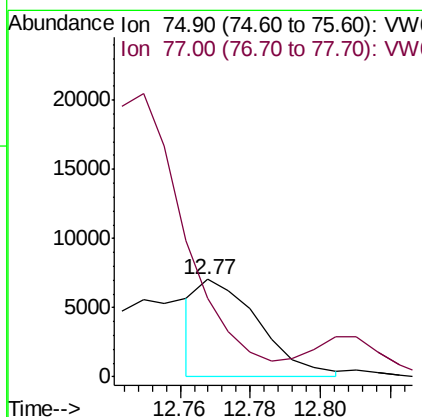
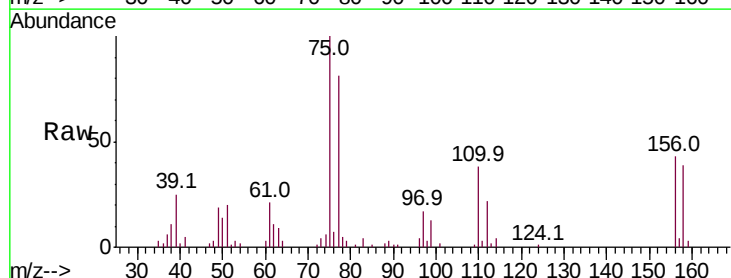
RT: 12.77 min Scan# 1782

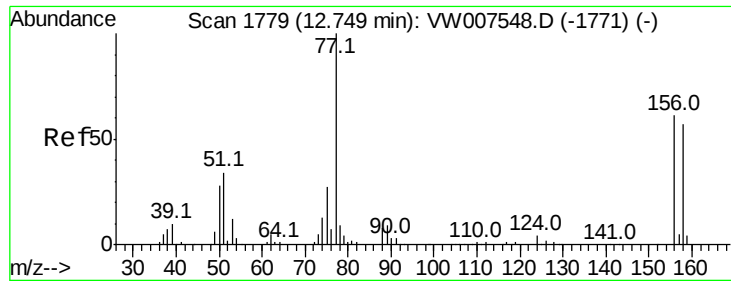
Delta R.T. -0.00 min

Lab File: VW007476.D

Acq: 13 Dec 2018 09:59

Tgt Ion:	75	Resp:	8533
Ion Ratio	Lower	Upper	
75	100		
77	439.7	166.9	500.8





#77

Bromobenzene

Concen: 20.379 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. -0.00 min

Lab File: VW007476.D

Acq: 13 Dec 2018 09:59

Instrument :

MSVOA_W

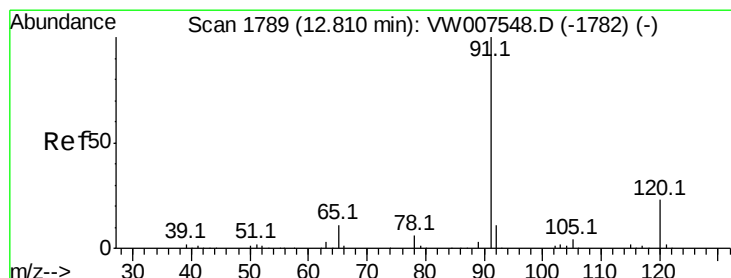
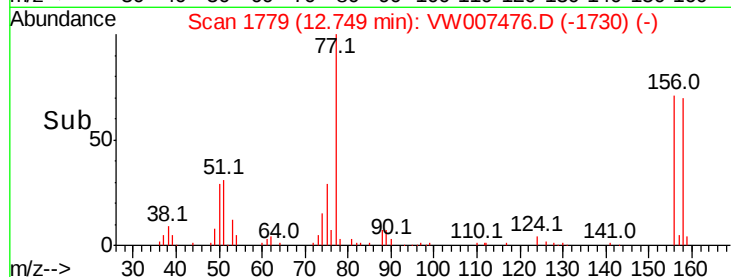
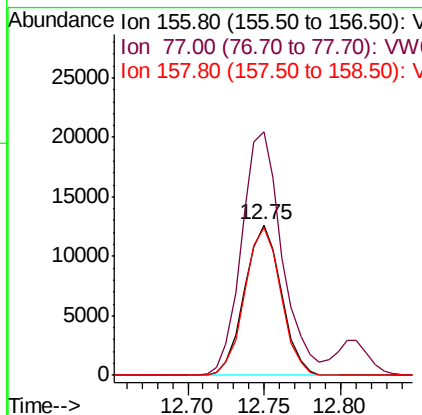
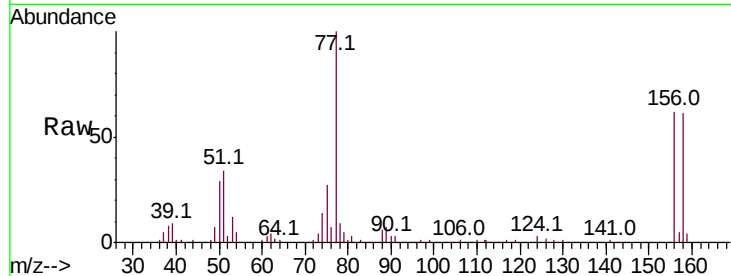
ClientSampleId :

VW1216SBS01

Tot Ion	156	Resp	21003
Ion Ratio	100	Lower	Upper
77	178.6	88.1	264.4
158	97.2	45.6	136.7

Manual Integrations
APPROVED

MMDadoda
12/24/2018 12:18:14 PM



#78

n-propylbenzene

Concen: 20.655 ug/l

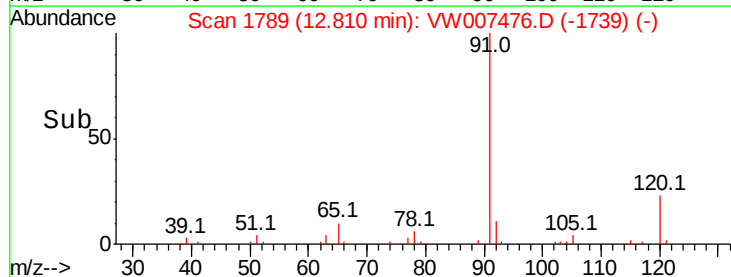
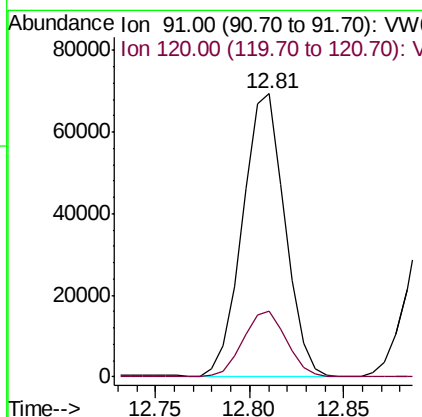
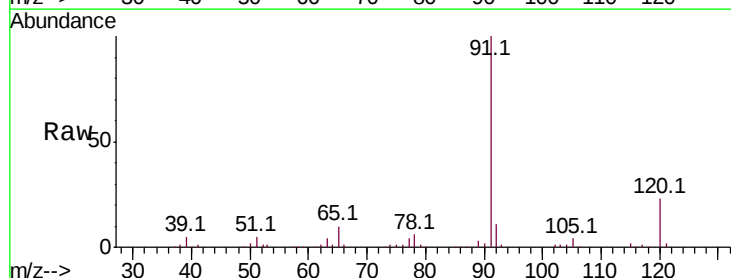
RT: 12.81 min Scan# 1789

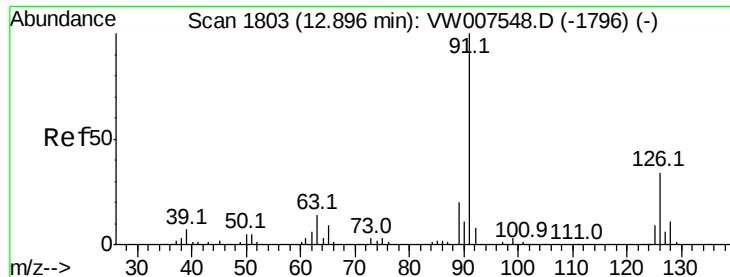
Delta R.T. 0.01 min

Lab File: VW007476.D

Acq: 13 Dec 2018 09:59

Tgt Ion	91	Resp	108082
Ion Ratio	100	Lower	Upper
91	100		
120	23.5	11.9	35.5





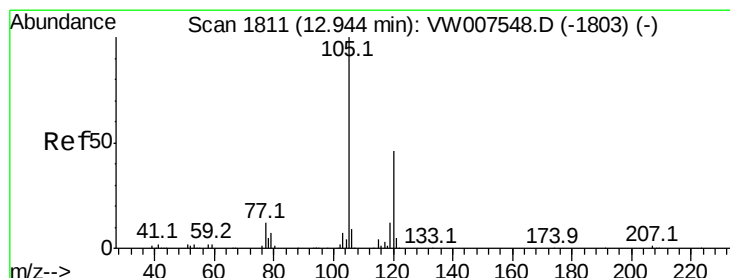
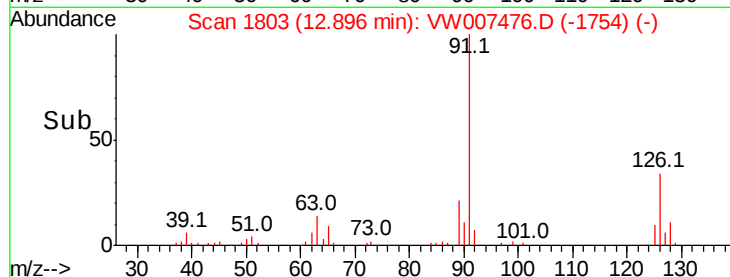
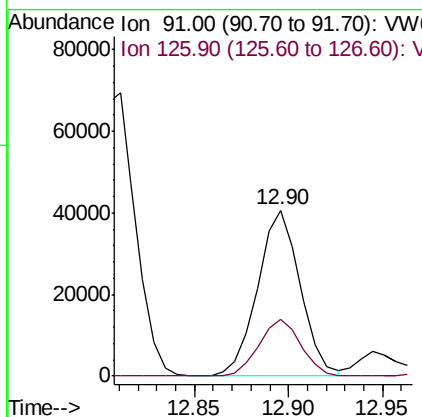
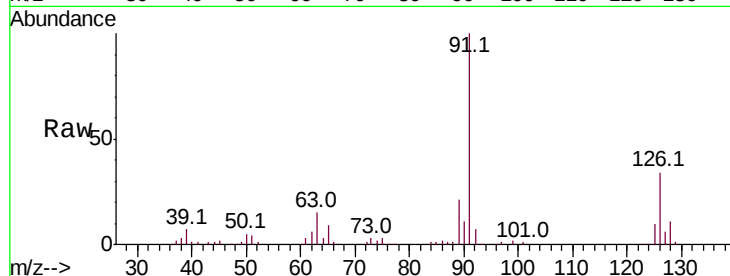
#79
2-Chlorotoluene
Concen: 20.105 ug/l
RT: 12.90 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Instrument :
MSVOA_W
ClientSampleId :
VW1216SBS01

Tot Ion: 91 Resp: 63657
Ion Ratio Lower Upper
91 100
126 33.9 15.9 47.6

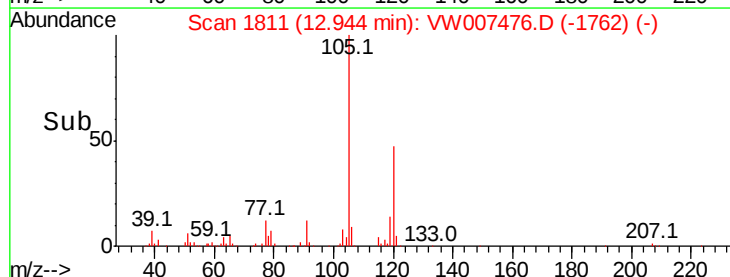
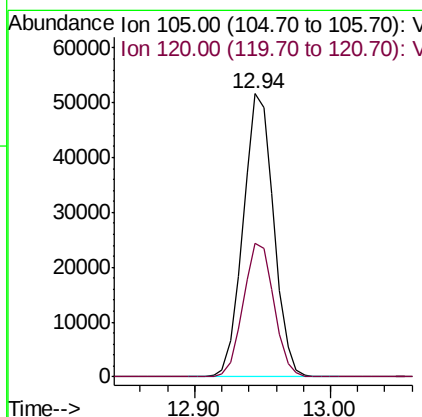
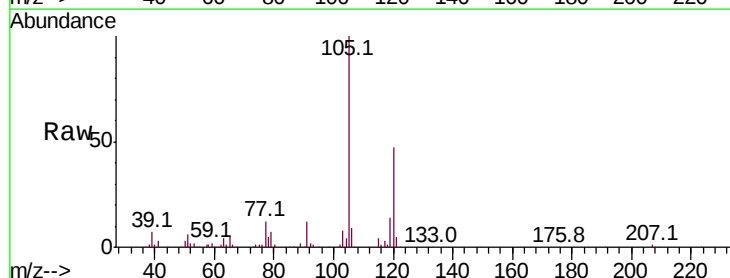
Manual Integrations
APPROVED

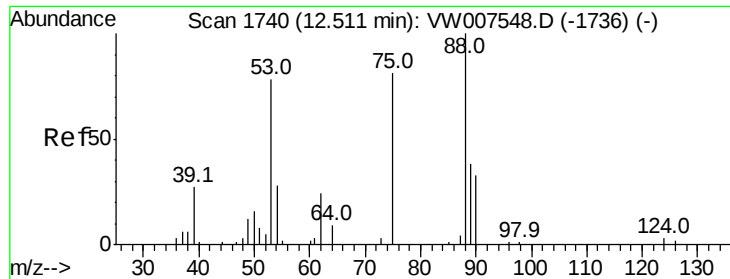
MMDadoda
12/24/2018 12:18:14 PM



#80
1,3,5-Trimethylbenzene
Concen: 20.645 ug/l
RT: 12.94 min Scan# 1811
Delta R.T. -0.00 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Tgt Ion:105 Resp: 80656
Ion Ratio Lower Upper
105 100
120 47.5 23.8 71.4





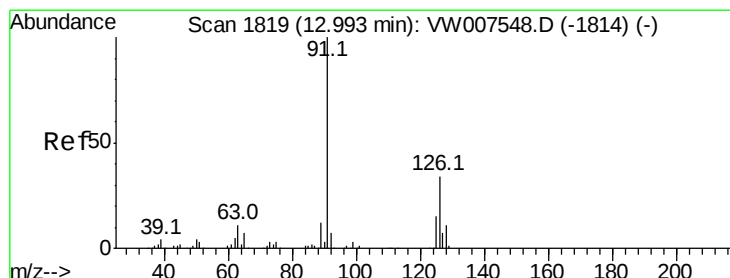
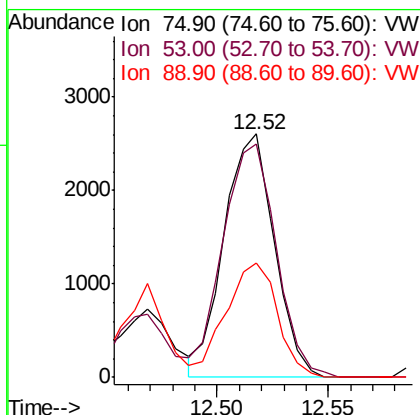
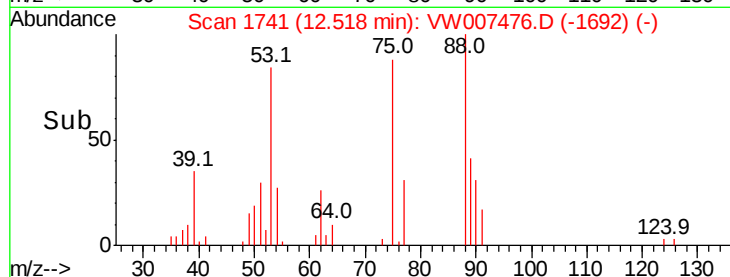
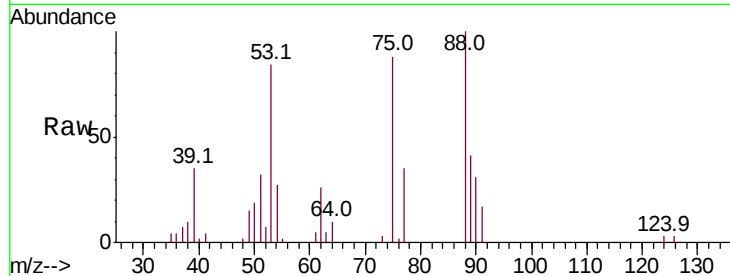
#81
trans-1,4-Dichloro-2-butene
Concen: 18.106 ug/l
RT: 12.52 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Instrument :
MSVOA_W
ClientSampleId :
VW1216SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	101.4	84.9	127.3
89	48.5	40.3	60.5

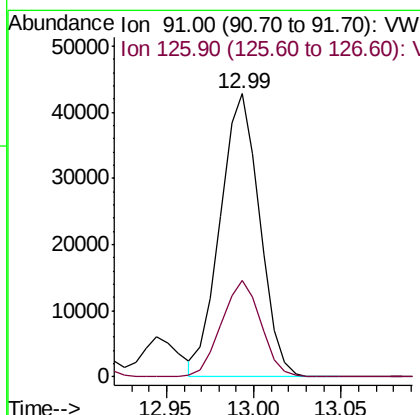
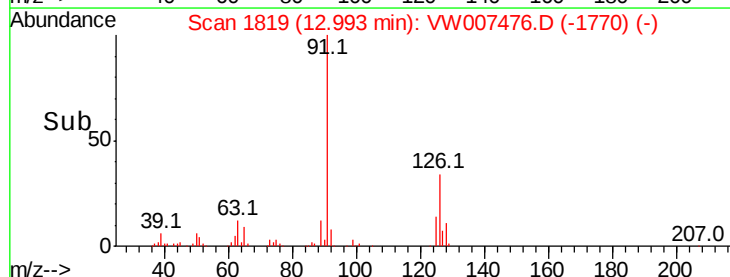
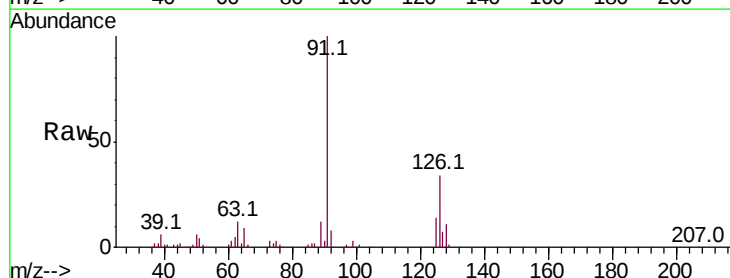
Manual Integrations
APPROVED

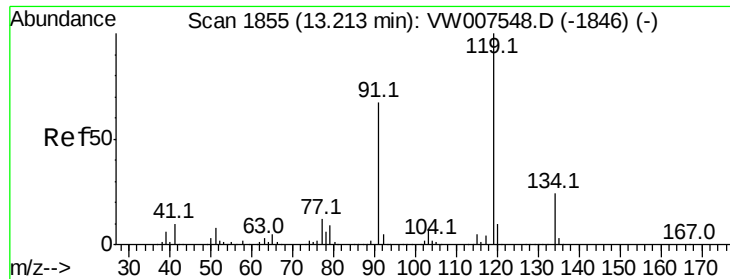
MMDadoda
12/24/2018 12:18:14 PM



#82
4-Chlorotoluene
Concen: 20.177 ug/l
RT: 12.99 min Scan# 1819
Delta R.T. -0.00 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.9	16.0	48.0





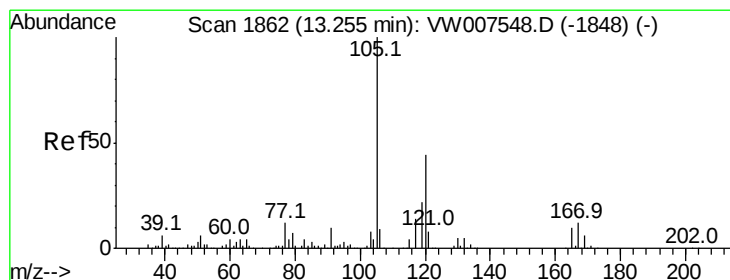
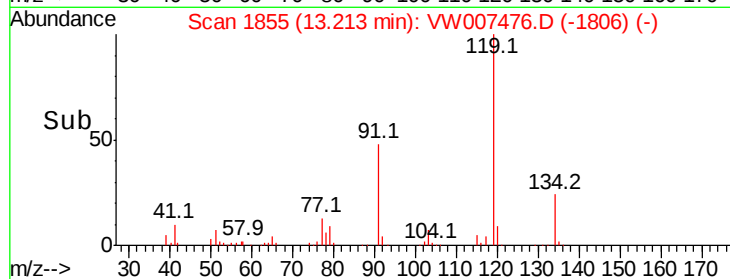
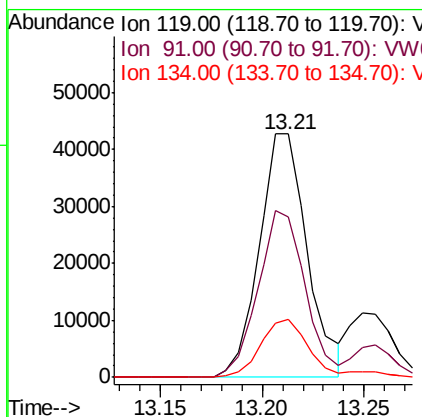
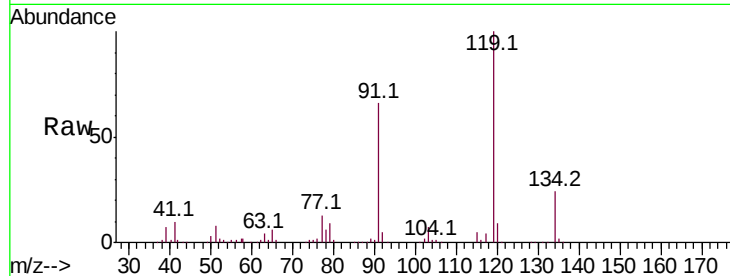
#83
tert-Butylbenzene
Concen: 20.340 ug/l
RT: 13.21 min Scan# 1855
Delta R.T. -0.00 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Instrument :
MSVOA_W
ClientSampleId :
VW1216SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	70019		
91	67.2		33.1	99.2
134	25.1		12.5	37.5

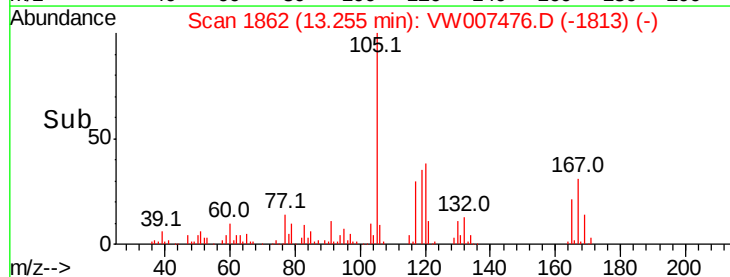
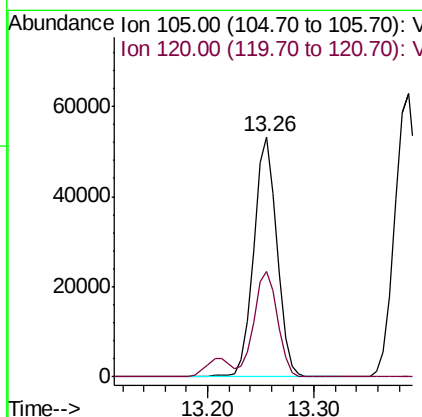
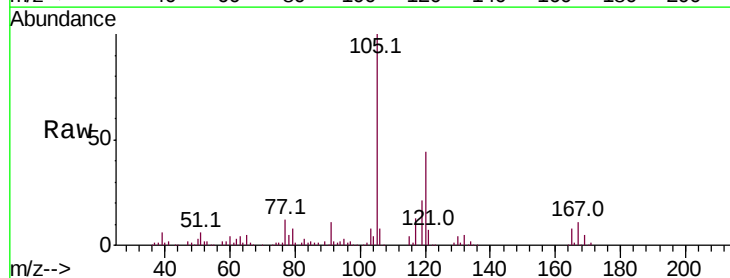
Manual Integrations
APPROVED

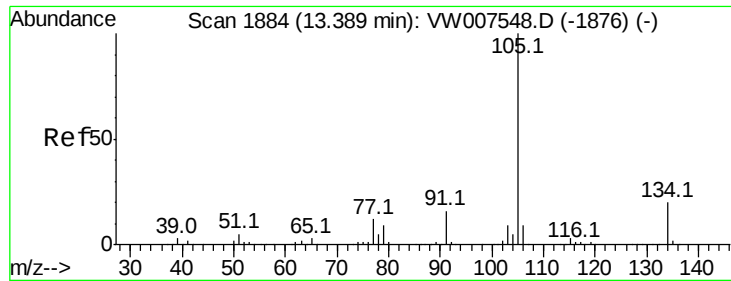
MMDadoda
12/24/2018 12:18:14 PM



#84
1,2,4-Trimethylbenzene
Concen: 20.272 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. -0.00 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	81501		
120	44.8		22.6	67.7





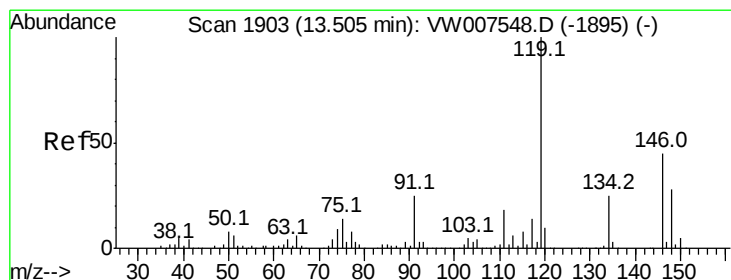
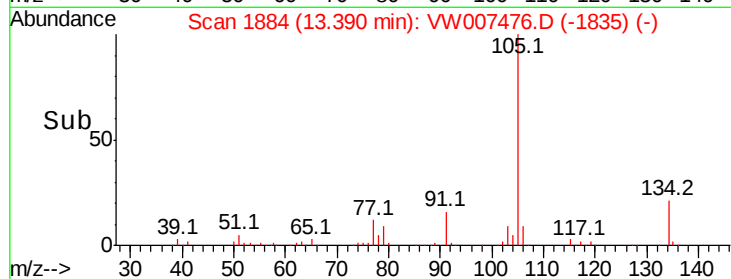
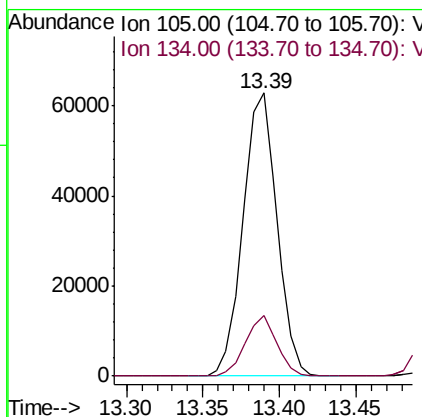
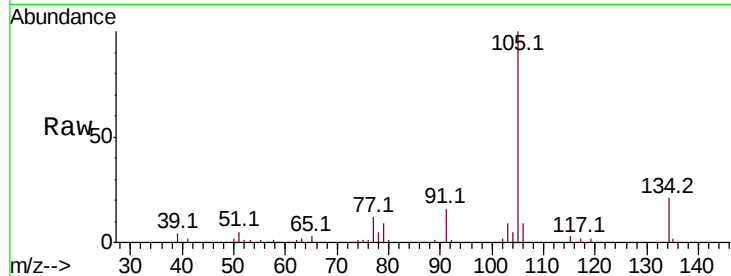
#85
 sec-Butylbenzene
 Concen: 20.604 ug/l
 RT: 13.39 min Scan# 1884
 Delta R.T. -0.00 min
 Lab File: VW007476.D
 Acq: 13 Dec 2018 09:59

Instrument :
 MSVOA_W
 ClientSampleID :
 VW1216SBS01

Tot Ion	Ratio	Lower	Upper
105	100		
134	19.8	11.1	33.3

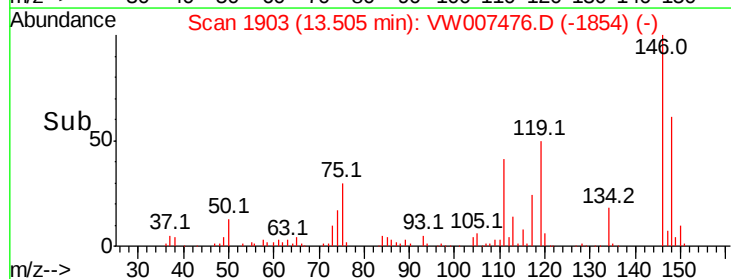
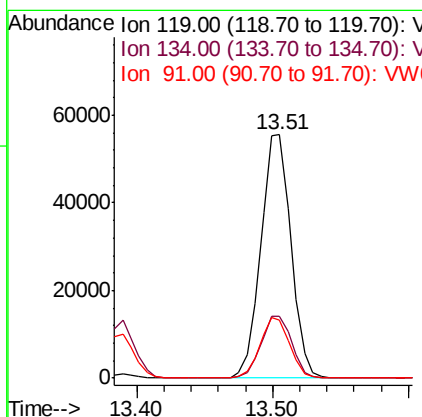
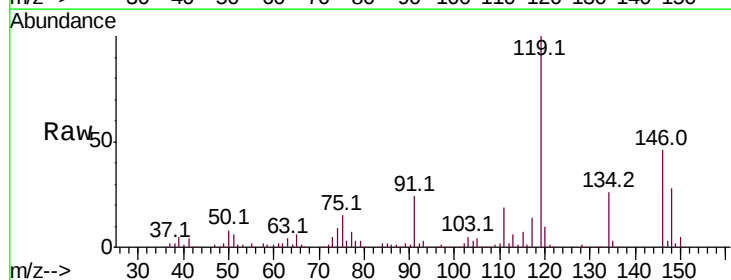
Manual Integrations
 APPROVED

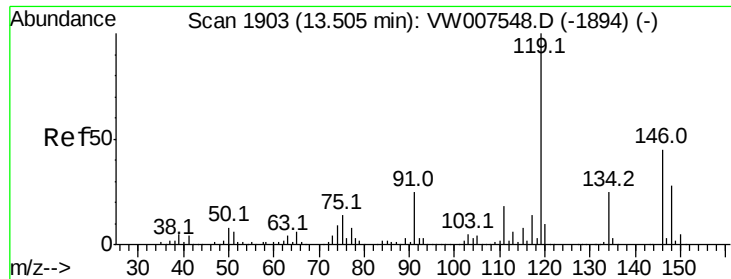
MMDadoda
 12/24/2018 12:18:14 PM



#86
 p-Isopropyltoluene
 Concen: 20.487 ug/l
 RT: 13.51 min Scan# 1903
 Delta R.T. -0.00 min
 Lab File: VW007476.D
 Acq: 13 Dec 2018 09:59

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.9	38.7
91	24.4	11.9	35.9





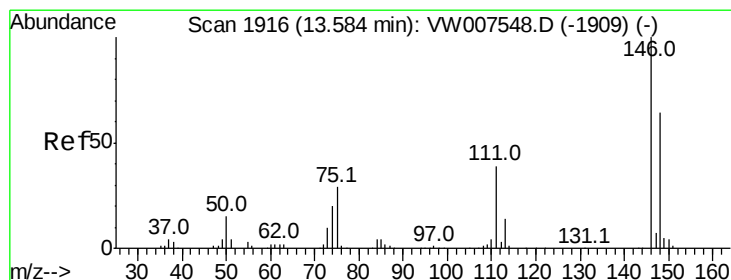
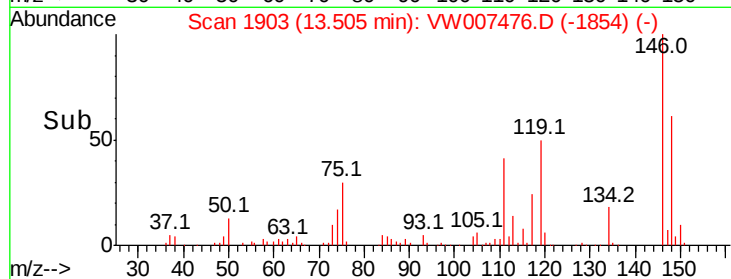
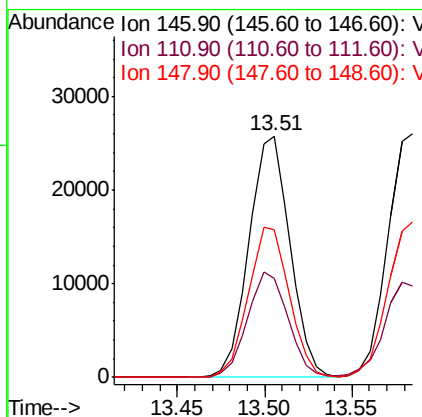
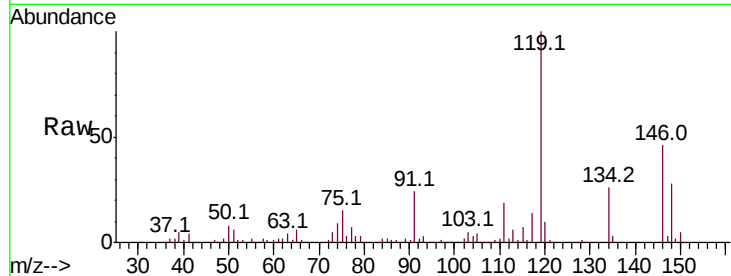
#87
 1,3-Dichlorobenzene
 Concen: 20.442 ug/l
 RT: 13.51 min Scan# 1903
 Delta R.T. -0.00 min
 Lab File: VW007476.D
 Acq: 13 Dec 2018 09:59

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1216SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.5	20.1	60.3
148	62.4	31.4	94.0

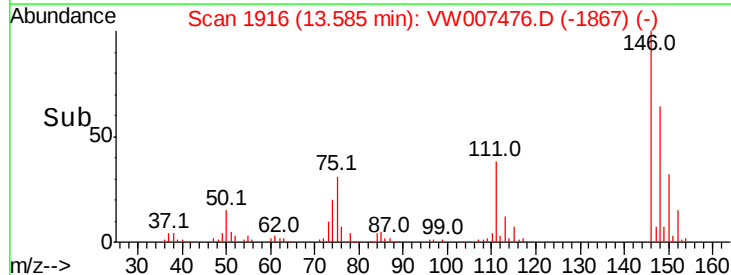
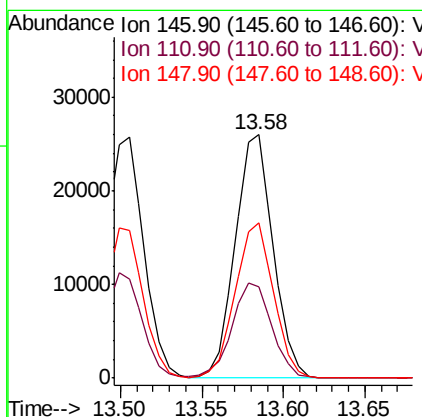
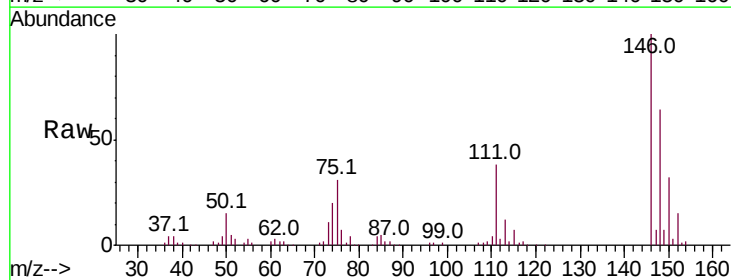
Manual Integrations
 APPROVED

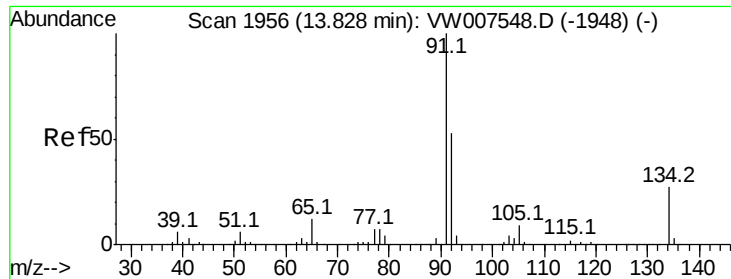
MMDadoda
 12/24/2018 12:18:14 PM



#88
 1,4-Dichlorobenzene
 Concen: 20.345 ug/l
 RT: 13.58 min Scan# 1916
 Delta R.T. -0.00 min
 Lab File: VW007476.D
 Acq: 13 Dec 2018 09:59

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.3	61.0
148	64.6	33.5	100.5





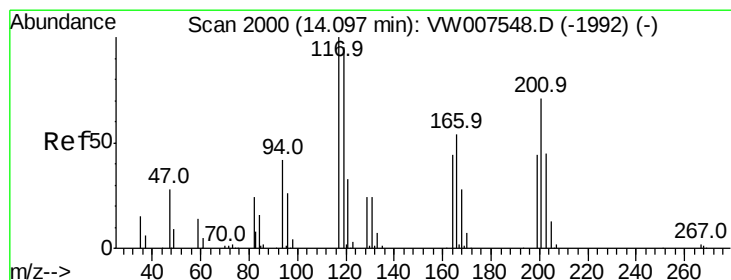
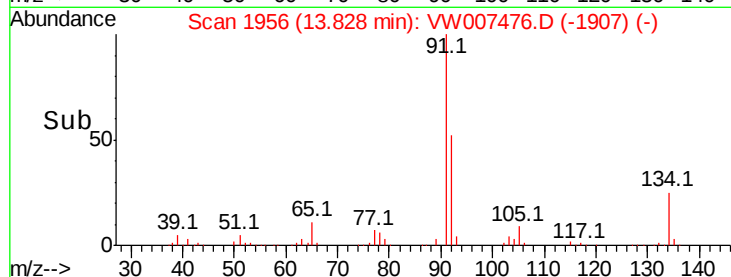
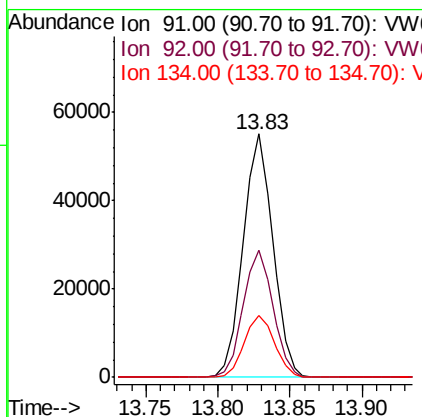
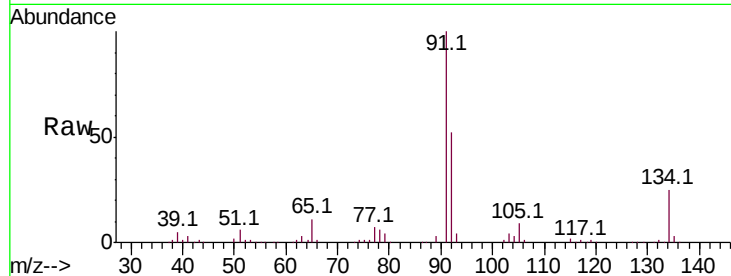
#89
n-Butylbenzene
Concen: 20.143 ug/l
RT: 13.83 min Scan# 1956
Delta R.T. -0.00 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Instrument :
MSVOA_W
ClientSampleId :
VW1216SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.3	25.7	77.1
134	25.6	13.4	40.2

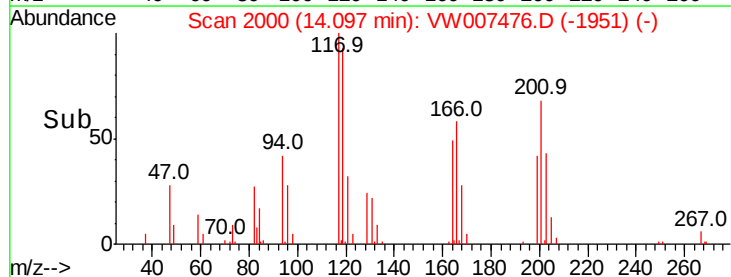
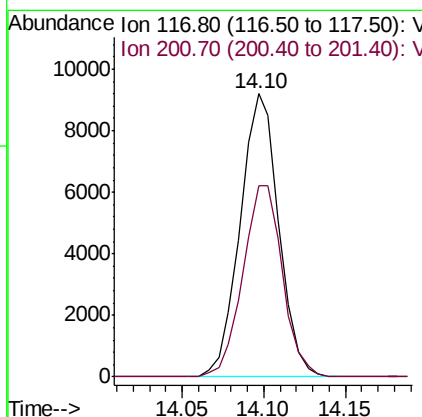
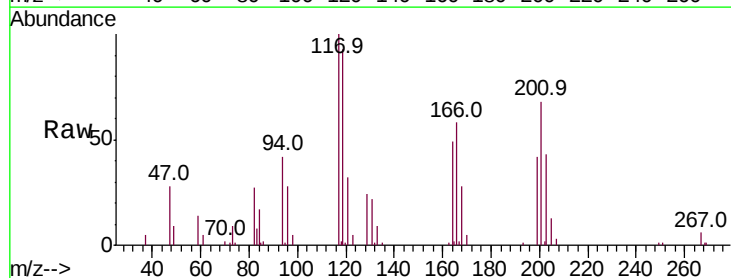
Manual Integrations
APPROVED

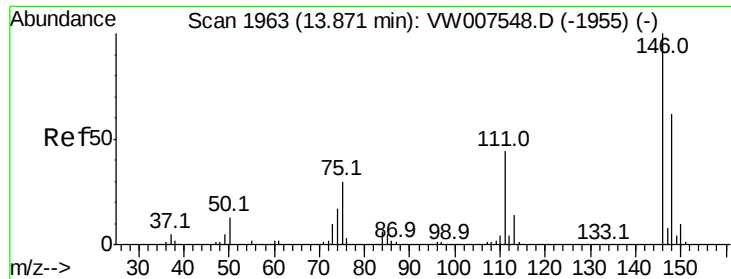
MMDadoda
12/24/2018 12:18:14 PM



#90
Hexachloroethane
Concen: 20.127 ug/l
RT: 14.10 min Scan# 2000
Delta R.T. -0.00 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Tgt Ion	Ratio	Lower	Upper
117	100		
201	69.5	35.3	105.9





#91

1,2-Dichlorobenzene

Concen: 20.316 ug/l

RT: 13.87 min Scan# 1963

Delta R.T. -0.01 min

Lab File: VW007476.D

Acq: 13 Dec 2018 09:59

Instrument :

MSVOA_W

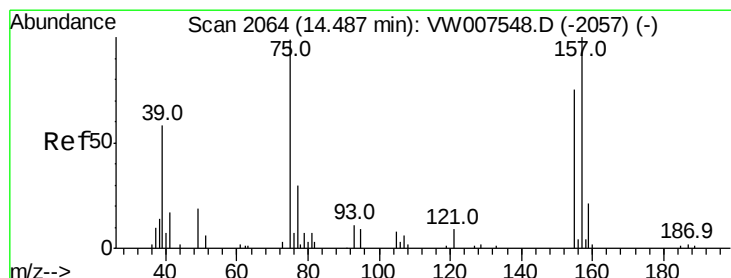
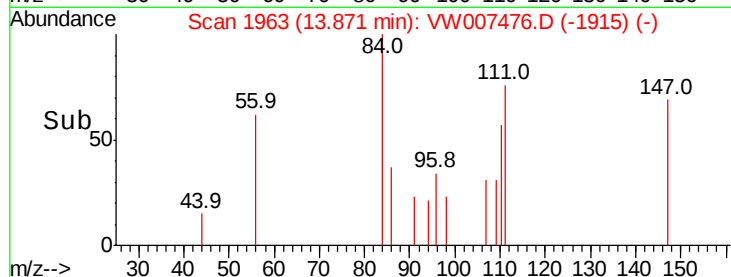
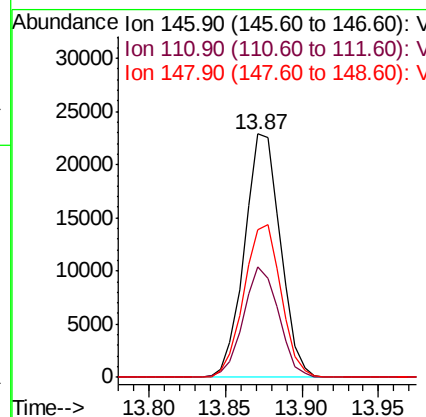
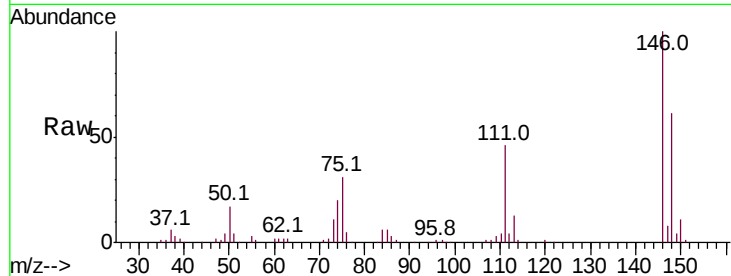
ClientSampleId :

VW1216SBS01

Tot Ion:	146	Resp:	37392
Ion Ratio	Lower	Upper	
146	100		
111	44.6	22.4	67.2
148	64.7	32.4	97.2

Manual Integrations
APPROVED

MMDadoda
12/24/2018 12:18:14 PM



#92

1,2-Dibromo-3-Chloropropane

Concen: 20.239 ug/l

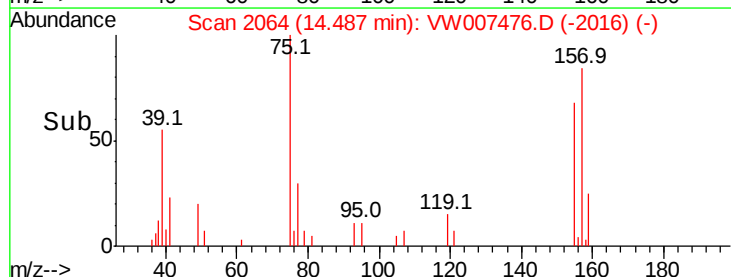
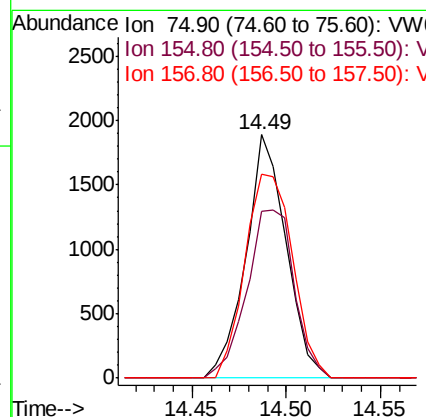
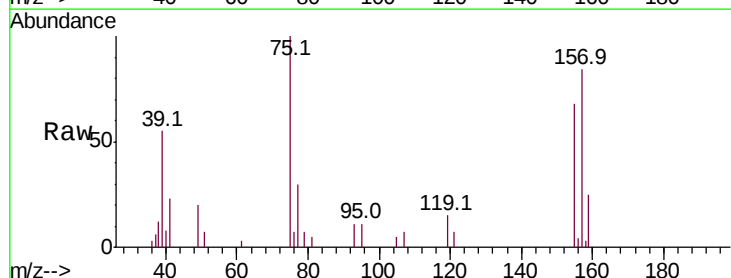
RT: 14.49 min Scan# 2064

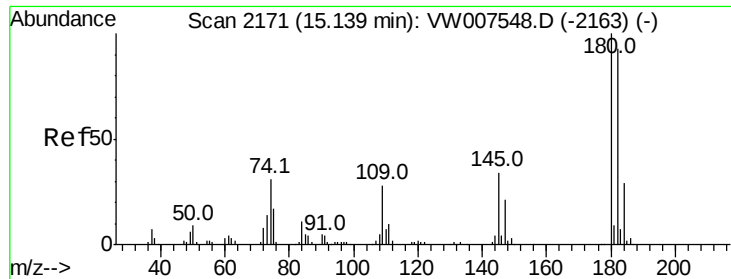
Delta R.T. -0.01 min

Lab File: VW007476.D

Acq: 13 Dec 2018 09:59

Tgt Ion:	75	Resp:	2797
Ion Ratio	Lower	Upper	
75	100		
155	81.3	40.8	122.2
157	99.2	51.1	153.4





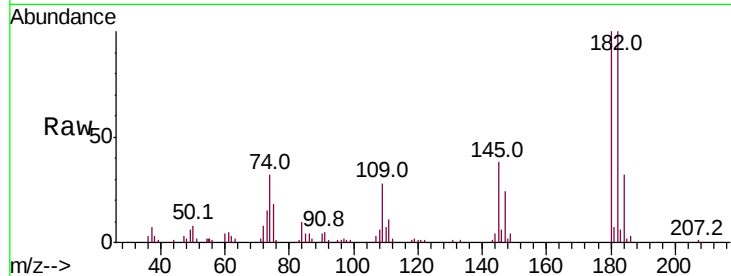
#93
 1,2,4-Trichlorobenzene
 Concen: 20.055 ug/l
 RT: 15.14 min Scan# 2171
 Delta R.T. -0.00 min
 Lab File: VW007476.D
 Acq: 13 Dec 2018 09:59

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1216SBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.0	49.9	149.6
145	34.5	17.8	53.4

Manual Integrations
 APPROVED

MMDadoda
 12/24/2018 12:18:14 PM

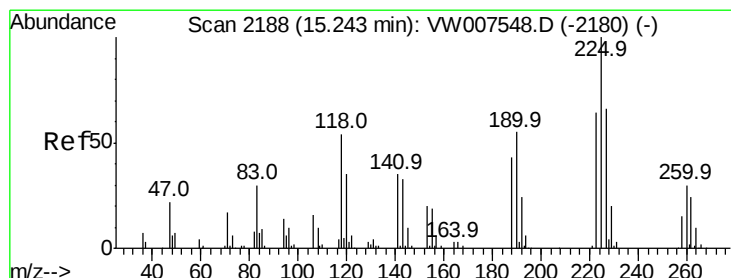
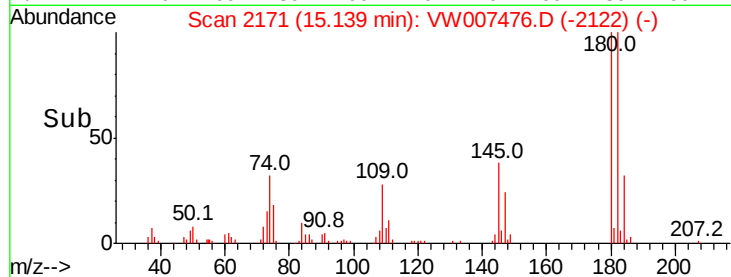
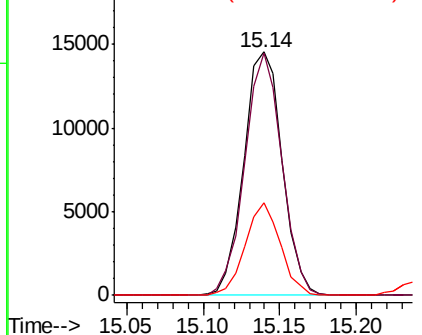


Abundance

Ion 179.80 (179.50 to 180.50): V

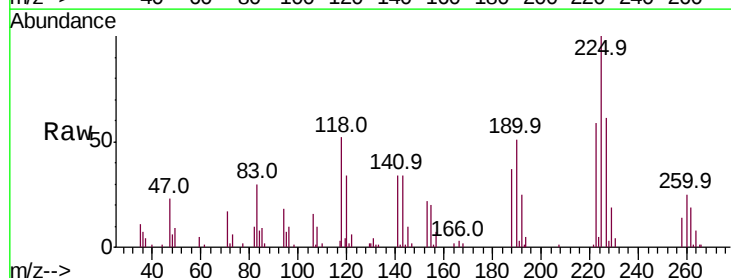
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 19.564 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. -0.01 min
 Lab File: VW007476.D
 Acq: 13 Dec 2018 09:59

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.2	32.1	96.3
227	62.2	31.9	95.9

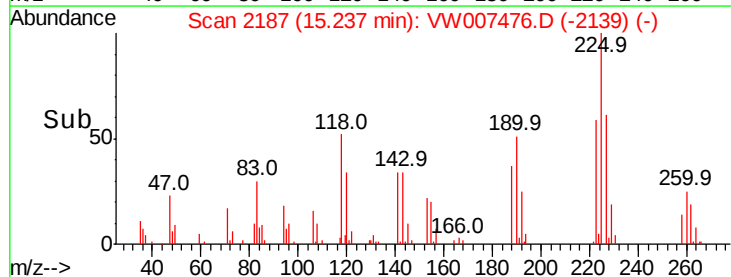
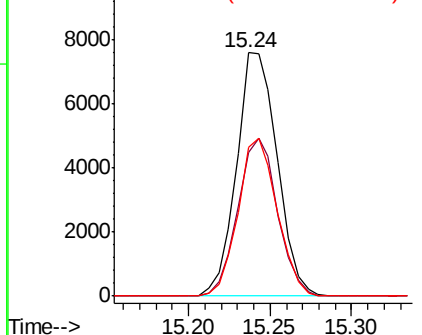


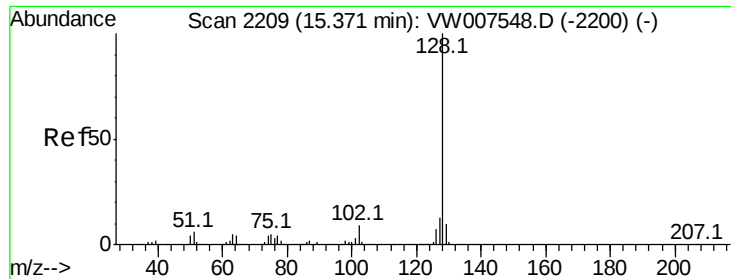
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





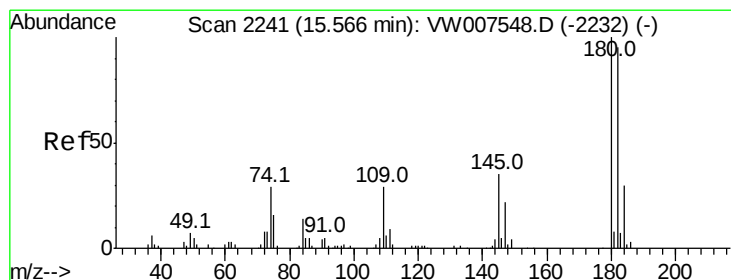
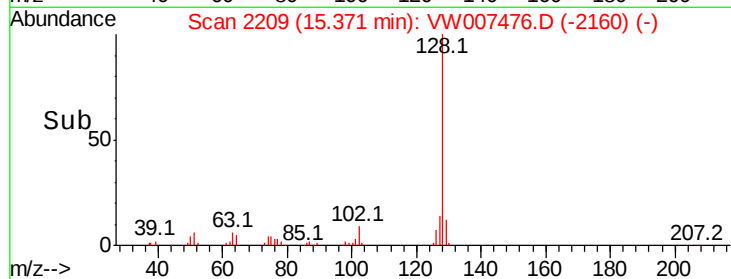
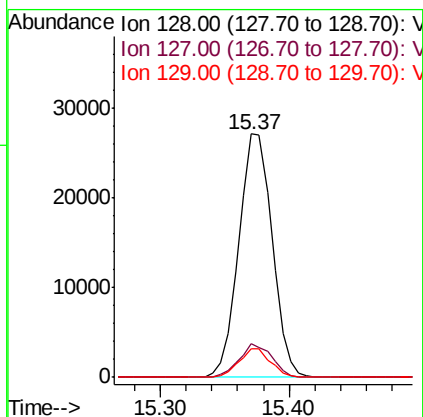
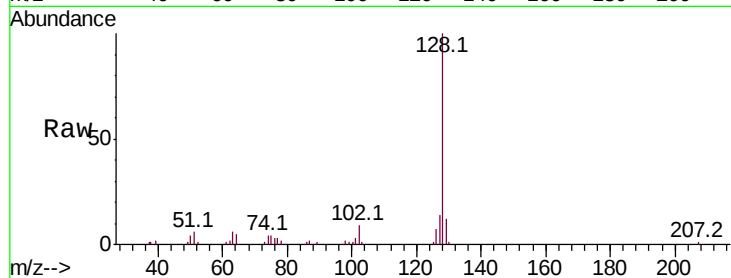
#95
Naphthalene
Concen: 20.061 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. -0.00 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Instrument :
MSVOA_W
ClientSampleId :
VW1216SBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.2	15.4
129	11.2	8.3	12.5

Manual Integrations
APPROVED

MMDadoda
12/24/2018 12:18:14 PM



#96
1,2,3-Trichlorobenzene
Concen: 20.093 ug/l
RT: 15.56 min Scan# 2240
Delta R.T. -0.00 min
Lab File: VW007476.D
Acq: 13 Dec 2018 09:59

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.5	45.6	136.7
145	36.4	17.5	52.5

