

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW080618\
 Data File : VW004478.D
 Acq On : 06 Aug 2018 19:10
 Operator : SY/AP
 Sample : VSTDIC020
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

apatel
 8/7/2018 4:48:58 PM

Quant Time: Aug 07 08:10:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W080618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 07:40:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	735464	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	1147025	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	1112434	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	598480	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	161258	21.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	42.98%	
35) Dibromofluoromethane	7.88	113	148265	20.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.54%	
50) Toluene-d8	10.33	98	584026	20.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.66%	
62) 4-Bromofluorobenzene	12.63	95	208325	20.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.80%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	110515	37.08	ug/l	95
3) Chloromethane	2.22	50	127032	27.01	ug/l	98
4) Vinyl Chloride	2.37	62	200197	26.30	ug/l	96
5) Bromomethane	2.77	94	111850	22.84	ug/l	95
6) Chloroethane	2.92	64	116615	24.52	ug/l	97
7) Trichlorofluoromethane	3.25	101	67649	16.11	ug/l	95
8) Diethyl Ether	3.67	74	90210	22.80	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	4.06	101	161440	21.59	ug/l	98
10) Methyl Iodide	4.27	142	238632	21.43	ug/l	99
11) Tert butyl alcohol	5.18	59	50028	92.78	ug/l	99
12) 1,1-Dichloroethene	4.03	96	159666	21.47	ug/l	99
13) Acrolein	3.89	56	62816	126.40	ug/l	96
14) Allyl chloride	4.66	41	230082	19.53	ug/l	99
15) Acrylonitrile	5.37	53	206575	119.77	ug/l	98
16) Acetone	4.12	43	210866	123.14	ug/l	97
17) Carbon Disulfide	4.38	76	514800	22.38	ug/l	99
18) Methyl Acetate	4.67	43	98028	21.90	ug/l	99
19) Methyl tert-butyl Ether	5.43	73	214517	16.78	ug/l	99
20) Methylene Chloride	4.91	84	263310	31.82	ug/l	98
21) trans-1,2-Dichloroethene	5.42	96	168961	21.16	ug/l	100
22) Diisopropyl ether	6.31	45	511120	22.62	ug/l	99
23) Vinyl Acetate	6.26	43	1502894	113.66	ug/l	99
24) 1,1-Dichloroethane	6.21	63	314220	21.52	ug/l	99
25) 2-Butanone	7.18	43	337420	151.59	ug/l	99
26) 2,2-Dichloropropane	7.17	77	163952	19.88	ug/l	98
27) cis-1,2-Dichloroethene	7.17	96	183679	22.47	ug/l	98
28) Bromochloromethane	7.51	49	137524	25.89	ug/l	100
29) Tetrahydrofuran	7.54	42	174892	127.78	ug/l	98
30) Chloroform	7.68	83	312061	22.43	ug/l	98
31) Cyclohexane	7.95	56	298713	23.05	ug/l	97
32) 1,1,1-Trichloroethane	7.87	97	231671	20.57	ug/l	99
36) 1,1-Dichloropropene	8.08	75	249628	21.51	ug/l	99
37) Ethyl Acetate	7.26	43	117194	24.36	ug/l	99
38) Carbon Tetrachloride	8.07	117	220440	19.47	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW080618\
 Data File : VW004478.D
 Acq On : 06 Aug 2018 19:10
 Operator : SY/AP
 Sample : VSTDICC020
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

apatel
 8/7/2018 4:48:58 PM

Quant Time: Aug 07 08:10:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W080618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 07:40:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	293385	20.80	ug/l	97
40) Benzene	8.32	78	728948	22.23	ug/l	99
41) Methacrylonitrile	7.49	41	64744	23.52	ug/l	97
42) 1,2-Dichloroethane	8.40	62	204280	21.90	ug/l	100
43) Isopropyl Acetate	8.43	43	197351	22.85	ug/l	99
44) Trichloroethene	9.09	130	178883	20.42	ug/l	100
45) 1,2-Dichloropropane	9.37	63	183259	22.51	ug/l	98
46) Dibromomethane	9.46	93	94849	22.76	ug/l	99
47) Bromodichloromethane	9.65	83	217522	20.85	ug/l	98
48) Methyl methacrylate	9.44	41	93655	21.46	ug/l	99
49) 1,4-Dioxane	9.45	88	28345	447.56	ug/l #	95
51) 4-Methyl-2-Pentanone	10.21	43	730767	145.28	ug/l	99
52) Toluene	10.39	92	439206	21.48	ug/l	99
53) t-1,3-Dichloropropene	10.61	75	218743	20.93	ug/l	100
54) cis-1,3-Dichloropropene	10.07	75	256037	21.00	ug/l	97
55) 1,1,2-Trichloroethane	10.79	97	137677	23.26	ug/l	97
56) Ethyl methacrylate	10.65	69	154654	21.50	ug/l	99
57) 1,3-Dichloropropane	10.94	76	232453	22.98	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.93	63	400188	121.53	ug/l	100
59) 2-Hexanone	10.98	43	502842	146.07	ug/l	97
60) Dibromochloromethane	11.13	129	147084	20.93	ug/l	100
61) 1,2-Dibromoethane	11.24	107	128546	22.73	ug/l	100
64) Tetrachloroethene	10.87	164	151621	18.73	ug/l	97
65) Chlorobenzene	11.66	112	485667	20.73	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.73	131	162798	19.68	ug/l	99
67) Ethyl Benzene	11.74	91	817243	19.93	ug/l	99
68) m/p-Xylenes	11.85	106	647999	41.18	ug/l	99
69) o-Xylene	12.17	106	292038	20.07	ug/l	99
70) Styrene	12.19	104	503807	20.42	ug/l	100
71) Bromoform	12.35	173	89534	19.36	ug/l #	99
73) Isopropylbenzene	12.47	105	809060	19.38	ug/l	99
74) N-amyl acetate	12.28	43	194326	21.19	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.72	83	171378	22.90	ug/l	100
76) 1,2,3-Trichloropropane	12.77	75	120011m	22.19	ug/l	
77) Bromobenzene	12.75	156	198008	19.71	ug/l	99
78) n-propylbenzene	12.81	91	1016143	20.02	ug/l	99
79) 2-Chlorotoluene	12.90	91	583975	20.08	ug/l	100
80) 1,3,5-Trimethylbenzene	12.95	105	710139	19.76	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.52	75	49155	20.61	ug/l	97
82) 4-Chlorotoluene	12.99	91	633737	20.48	ug/l	100
83) tert-Butylbenzene	13.21	119	573353	19.18	ug/l	99
84) 1,2,4-Trimethylbenzene	13.26	105	736589	20.05	ug/l	100
85) sec-Butylbenzene	13.39	105	878311	20.09	ug/l	99
86) p-Isopropyltoluene	13.51	119	774425	19.78	ug/l	99
87) 1,3-Dichlorobenzene	13.51	146	408307	20.20	ug/l	100
88) 1,4-Dichlorobenzene	13.59	146	404321	20.05	ug/l	98
89) n-Butylbenzene	13.84	91	741923	20.11	ug/l	99
90) Hexachloroethane	14.10	117	136265	19.47	ug/l	99
91) 1,2-Dichlorobenzene	13.88	146	374502	20.66	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.49	75	27850	21.50	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW080618\
Data File : VW004478.D
Acq On : 06 Aug 2018 19:10
Operator : SY/AP
Sample : VSTDICC020
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

apatel
8/7/2018 4:48:58 PM

Quant Time: Aug 07 08:10:58 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W080618S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 07 07:40:37 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.15	180	258328	20.32	ug/l	99
94) Hexachlorobutadiene	15.24	225	148640	19.24	ug/l	100
95) Naphthalene	15.38	128	469225	21.07	ug/l	99
96) 1,2,3-Trichlorobenzene	15.57	180	232242	20.73	ug/l	98

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

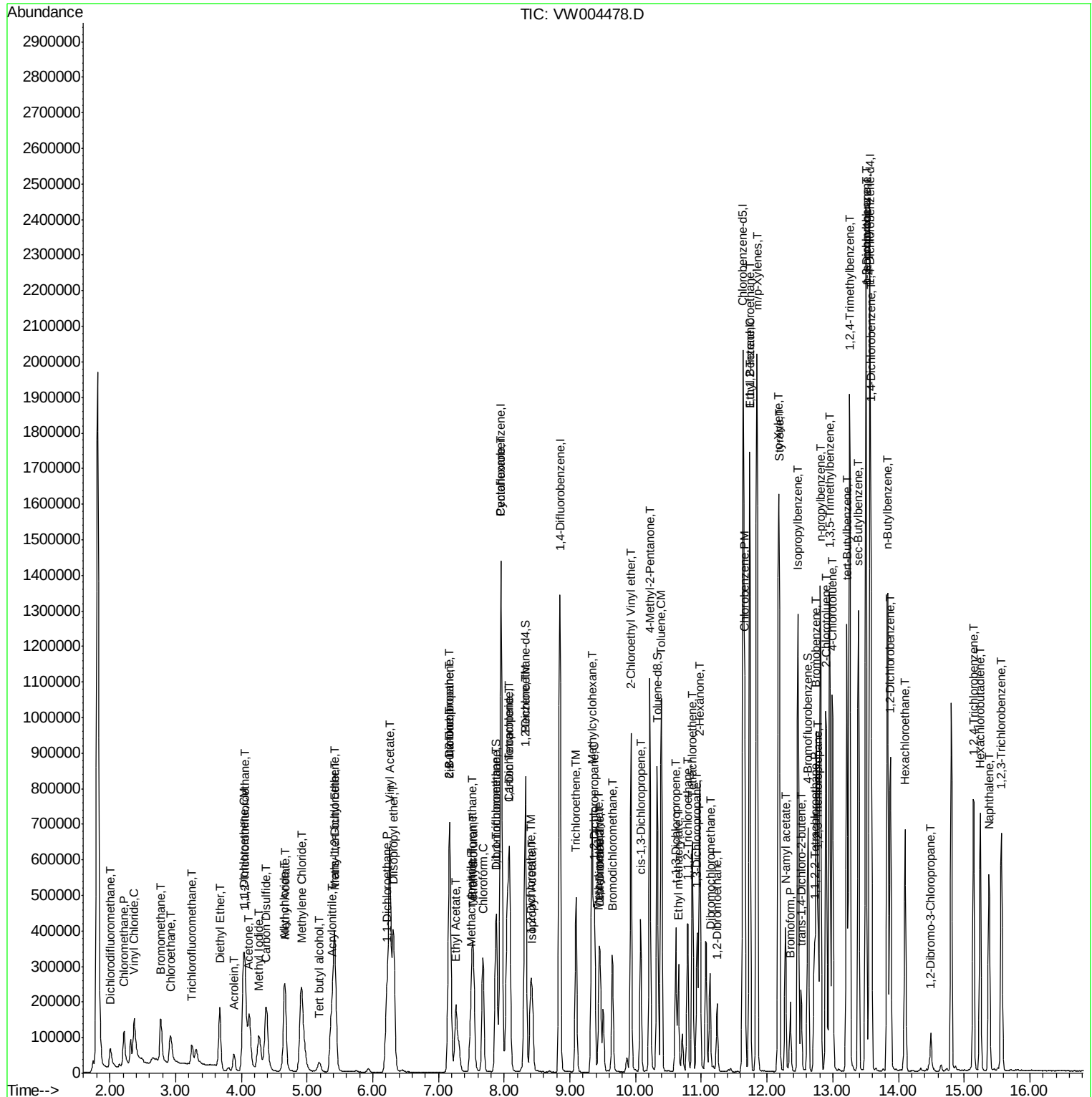
Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW080618\
Data File : VW004478.D
Acq On : 06 Aug 2018 19:10
Operator : SY/AP
Sample : VSTDICC020
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 5 Sample Multiplier: 1

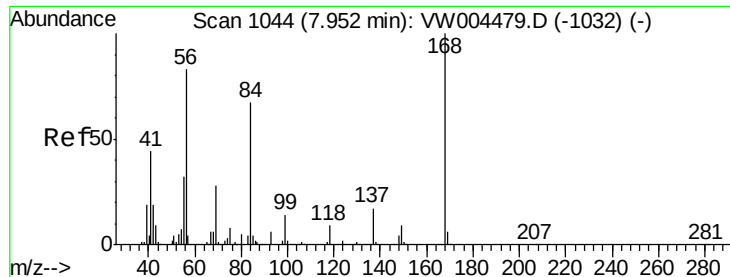
Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

apatel
8/7/2018 4:48:58 PM

Quant Time: Aug 07 08:10:58 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W080618S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 07 07:40:37 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 735464

Ion Ratio Lower Upper

168 100

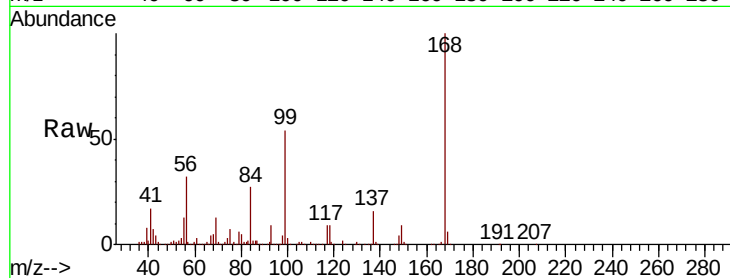
99 54.3 44.1 66.1

Manual Integrations

APPROVED

apatel

8/7/2018 4:48:58 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

400000

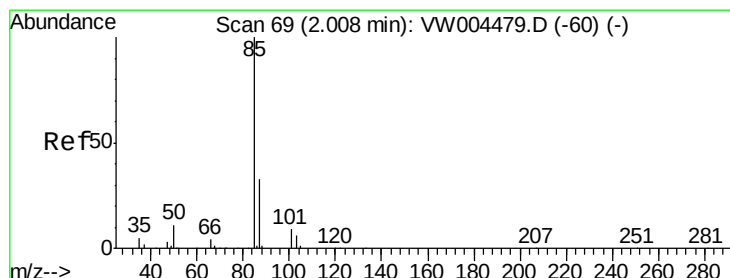
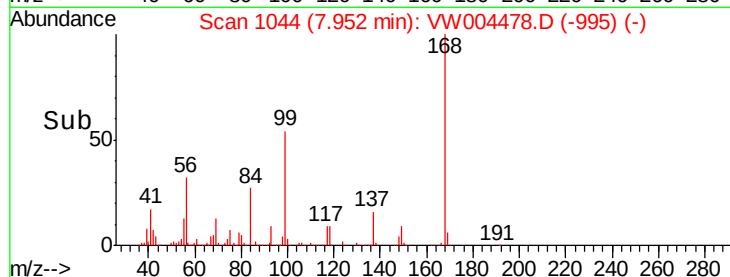
300000

200000

100000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: 37.08 ug/l

RT: 2.01 min Scan# 69

Delta R.T. 0.00 min

Lab File: VW004478.D

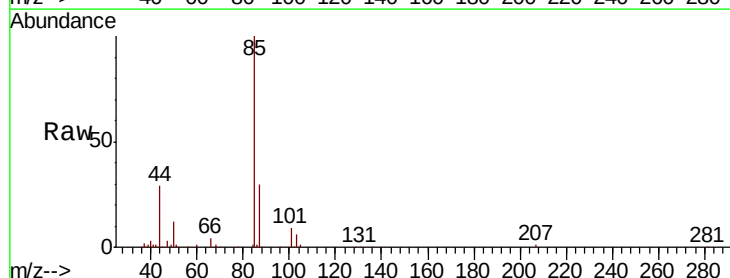
Acq: 06 Aug 2018 19:10

Tgt Ion: 85 Resp: 110515

Ion Ratio Lower Upper

85 100

87 30.2 16.7 50.0



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

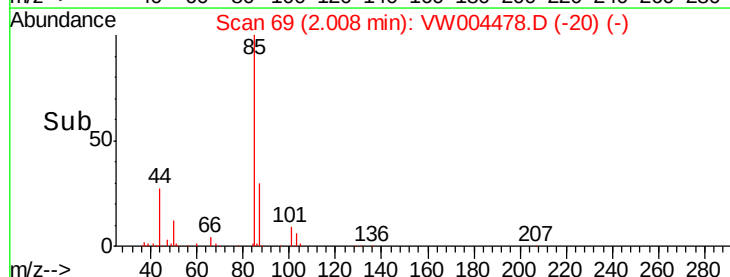
30000

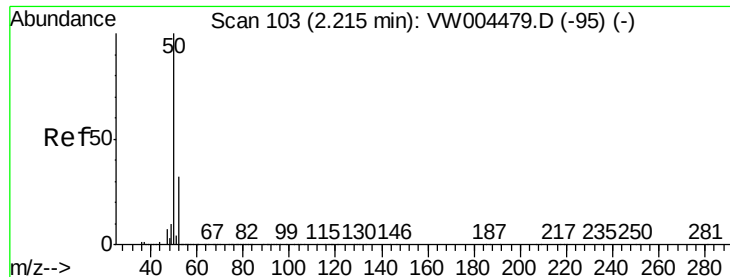
20000

10000

0

Time--> 1.90 2.00 2.10 2.20





#3

Chloromethane

Concen: 27.01 ug/l

RT: 2.22 min Scan# 103

Delta R.T. 0.00 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 127032

Ion Ratio Lower Upper

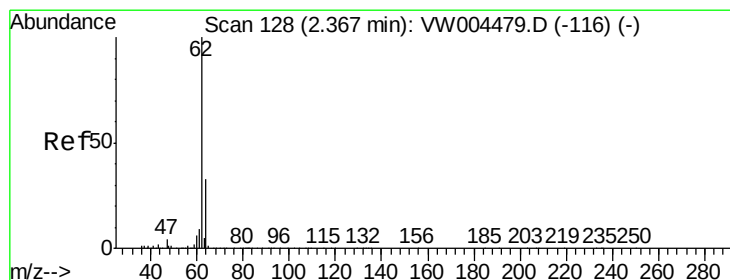
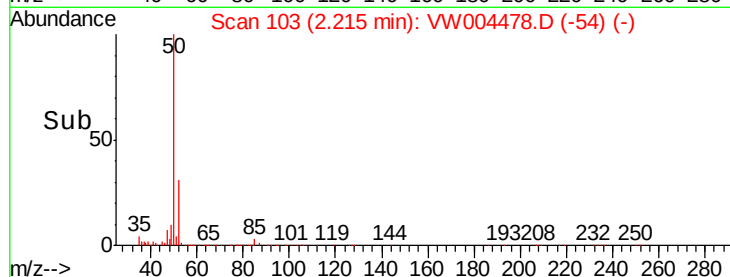
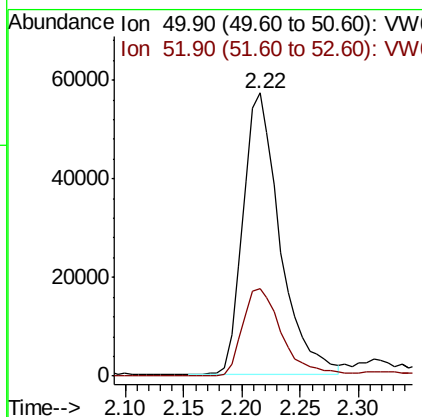
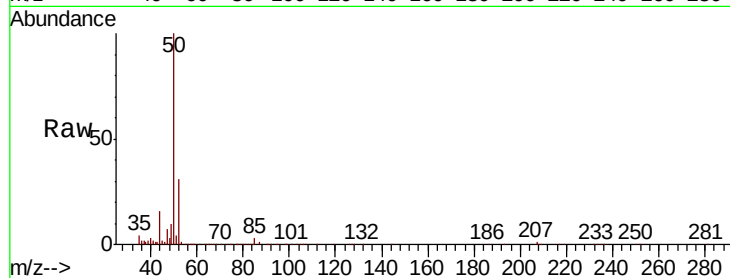
50 100

52 31.2 25.8 38.8

Manual Integrations
APPROVED

apatel

8/7/2018 4:48:58 PM



#4

Vinyl Chloride

Concen: 26.30 ug/l

RT: 2.37 min Scan# 128

Delta R.T. 0.00 min

Lab File: VW004478.D

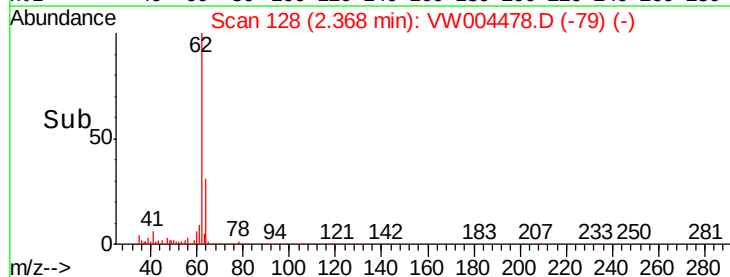
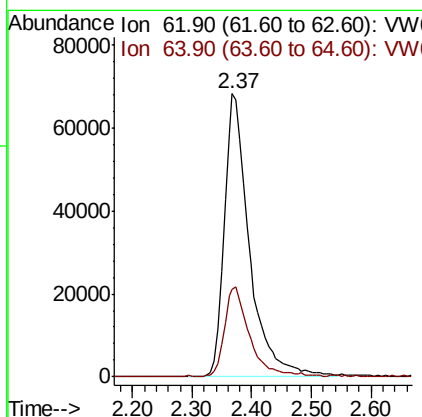
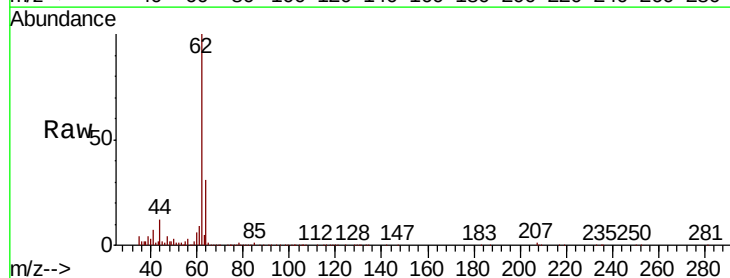
Acq: 06 Aug 2018 19:10

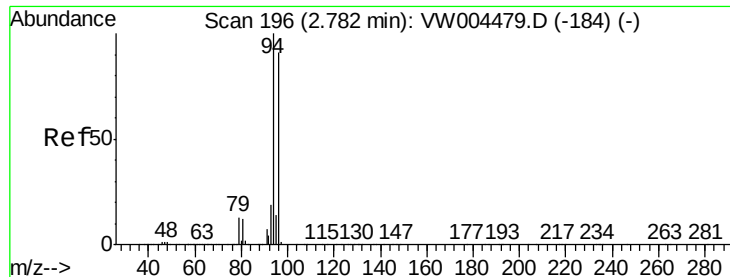
Tgt Ion: 62 Resp: 200197

Ion Ratio Lower Upper

62 100

64 30.5 26.2 39.2





#5

Bromomethane

Concen: 22.84 ug/l

RT: 2.77 min Scan# 194

Delta R.T. -0.01 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

Tot Ion: 94 Resp: 111850

Ion Ratio Lower Upper

94 100

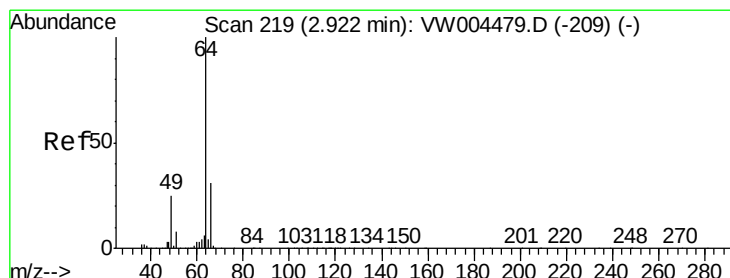
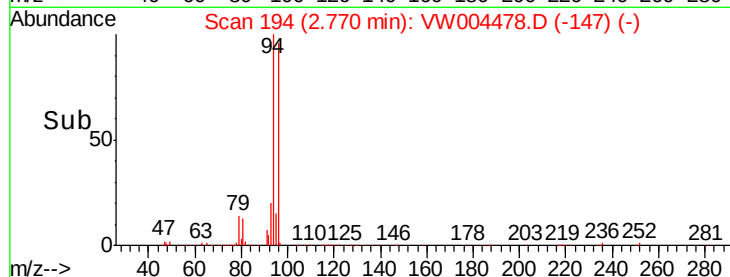
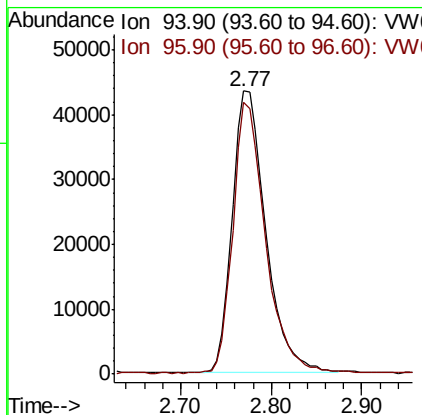
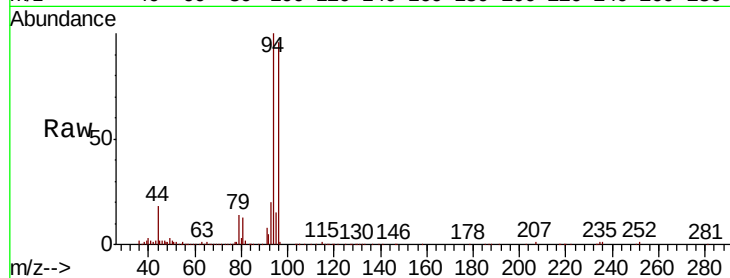
96 96.2 72.9 109.3

Manual Integrations

APPROVED

apatel

8/7/2018 4:48:58 PM



#6

Chloroethane

Concen: 24.52 ug/l

RT: 2.92 min Scan# 218

Delta R.T. -0.01 min

Lab File: VW004478.D

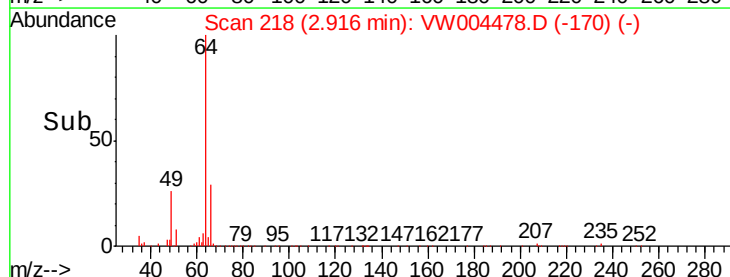
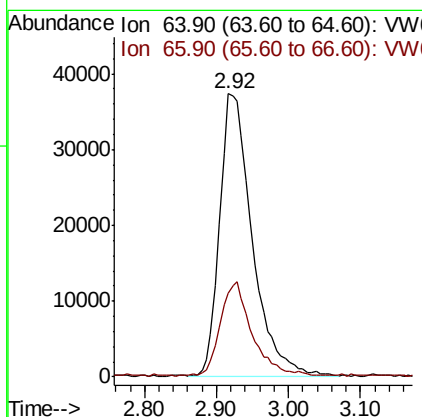
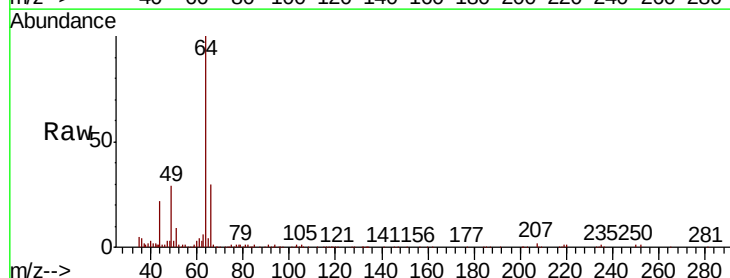
Acq: 06 Aug 2018 19:10

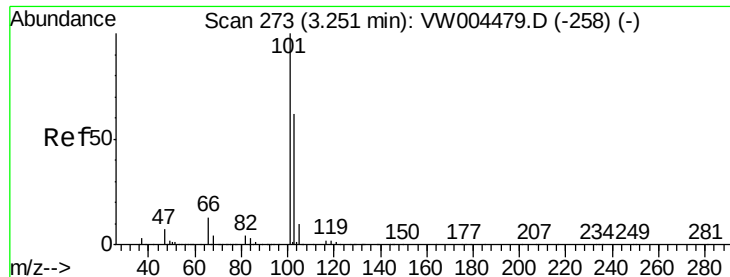
Tgt Ion: 64 Resp: 116615

Ion Ratio Lower Upper

64 100

66 29.1 24.6 36.8





#7

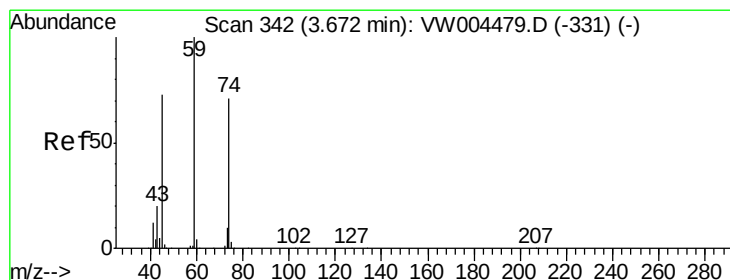
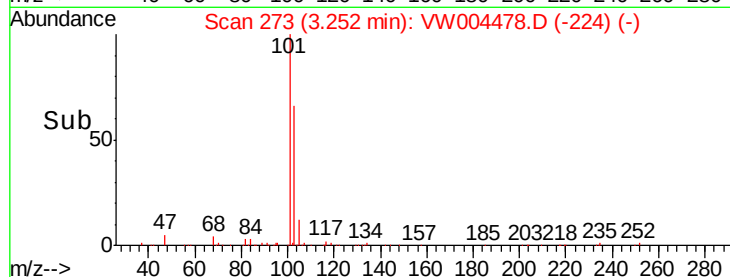
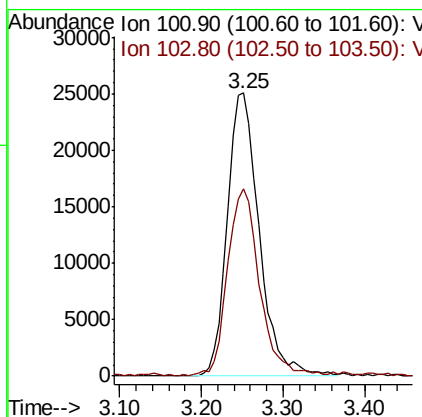
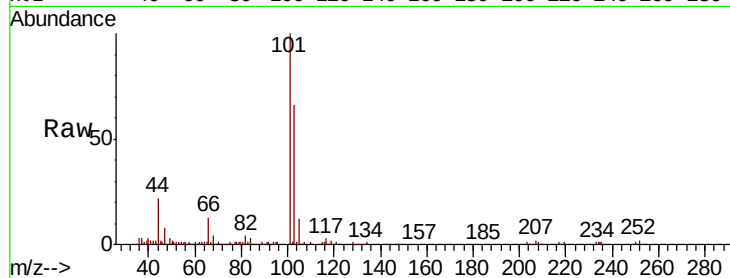
Trichlorofluoromethane
 Concen: 16.11 ug/l
 RT: 3.25 min Scan# 273
 Delta R.T. 0.00 min
 Lab File: VW004478.D
 Acq: 06 Aug 2018 19:10

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
101	100		
103	66.2	49.8	74.8

Manual Integrations
 APPROVED

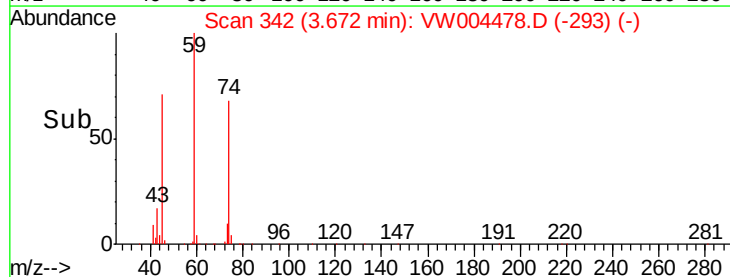
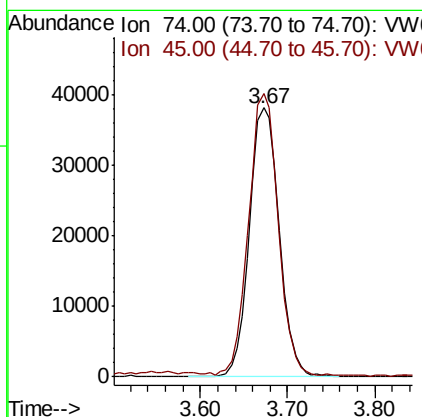
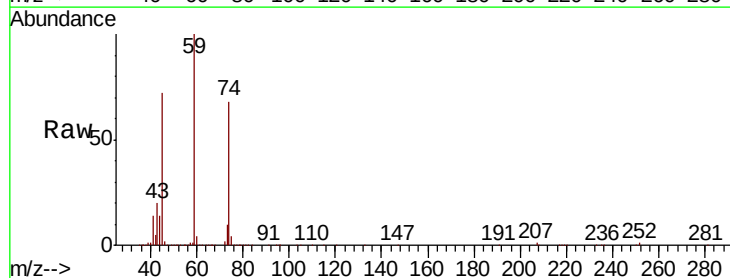
apatel
 8/7/2018 4:48:58 PM

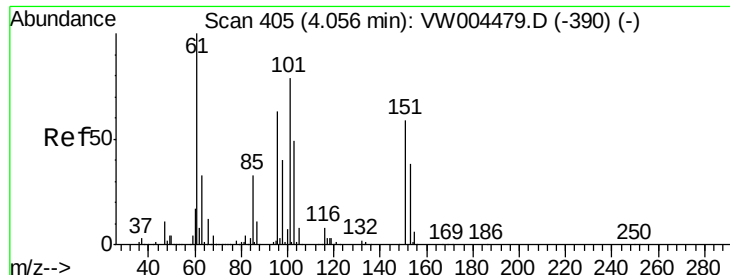


#8

Diethyl Ether
 Concen: 22.80 ug/l
 RT: 3.67 min Scan# 342
 Delta R.T. 0.00 min
 Lab File: VW004478.D
 Acq: 06 Aug 2018 19:10

Tgt Ion	Ratio	Lower	Upper
74	100		
45	103.6	51.2	153.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.59 ug/l

RT: 4.06 min Scan# 405

Delta R.T. 0.00 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

Instrument :

MSVOA_W

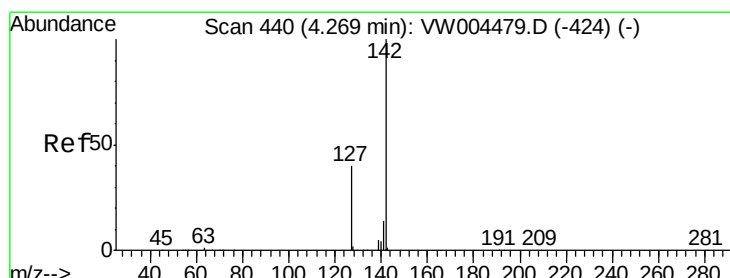
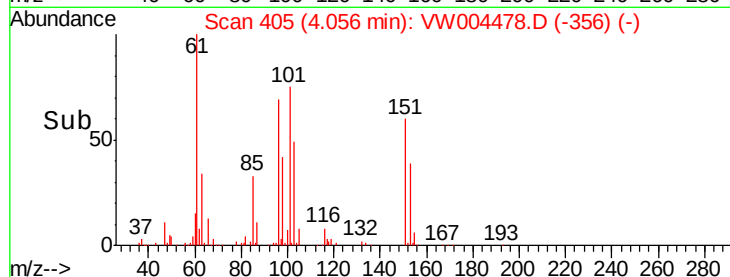
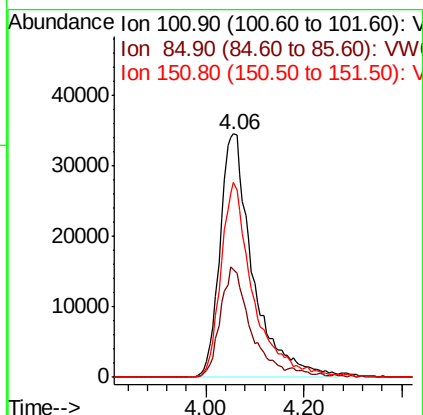
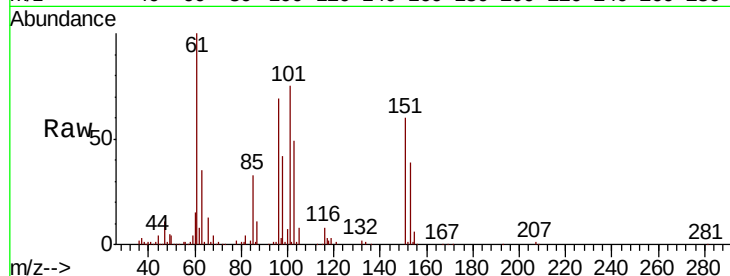
ClientSampleId :

VSTDIC020

Tot Ion:	101	Resp:	161440
Ion Ratio	Lower	Upper	
101	100		
85	40.8	34.6	51.8
151	78.1	61.3	91.9

Manual Integrations
APPROVED

apatel
8/7/2018 4:48:58 PM



#10

Methyl Iodide

Concen: 21.43 ug/l

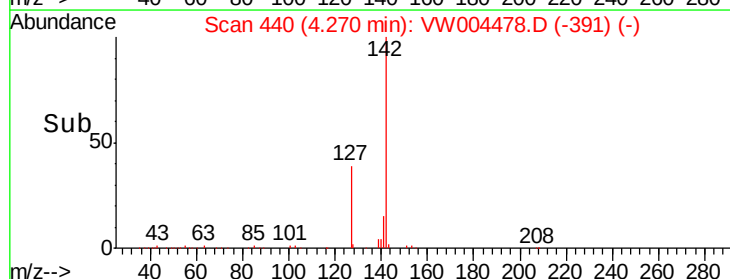
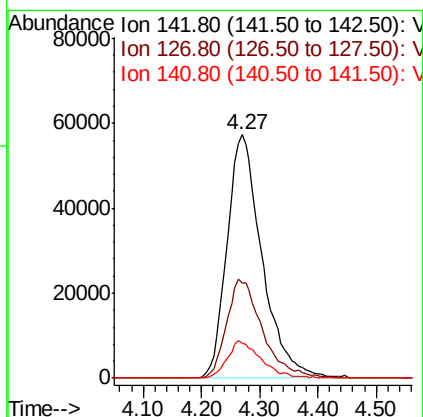
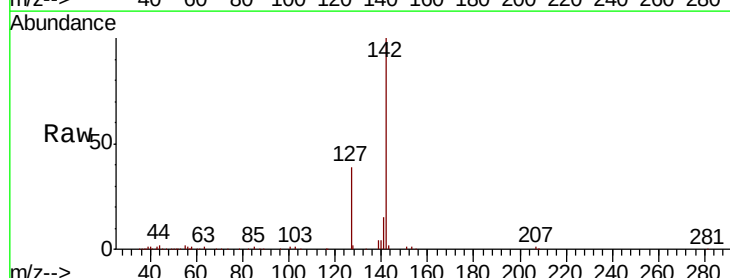
RT: 4.27 min Scan# 440

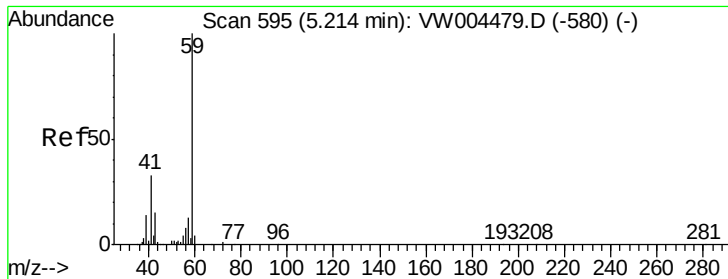
Delta R.T. 0.00 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

Tgt Ion:	142	Resp:	238632
Ion Ratio	Lower	Upper	
142	100		
127	41.6	32.7	49.1
141	14.7	11.5	17.3





#11

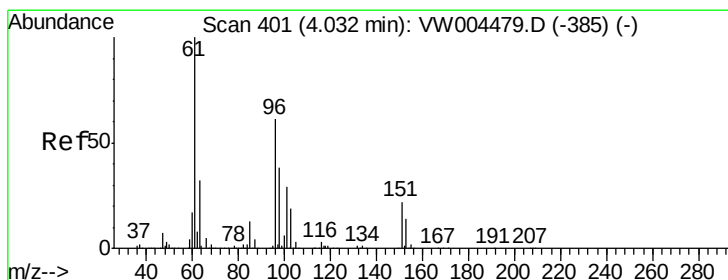
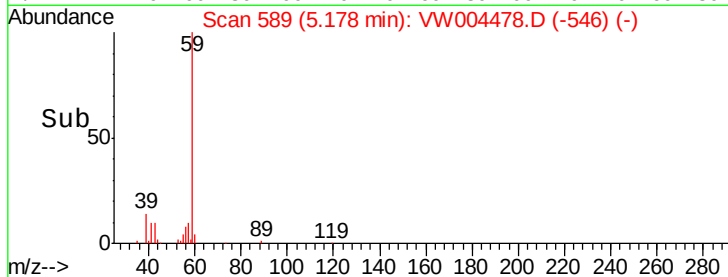
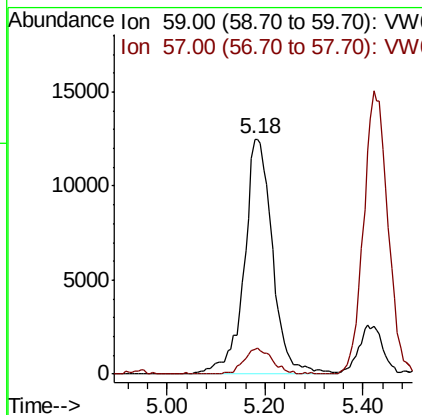
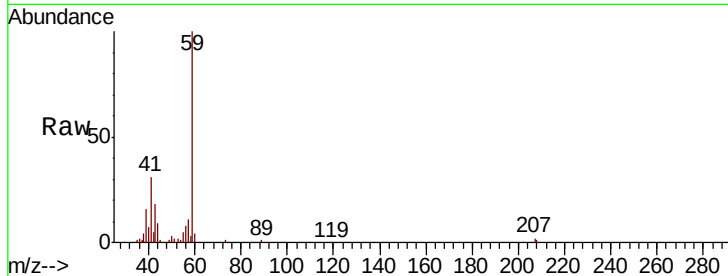
Tert butyl alcohol
Concen: 92.78 ug/l
RT: 5.18 min Scan# 589
Delta R.T. -0.04 min
Lab File: VW004478.D
Acq: 06 Aug 2018 19:10

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.9	9.1	13.7

Manual Integrations
APPROVED

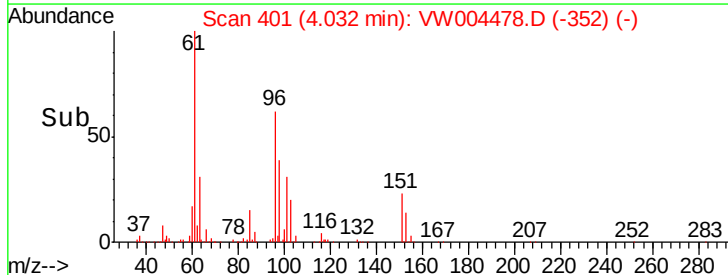
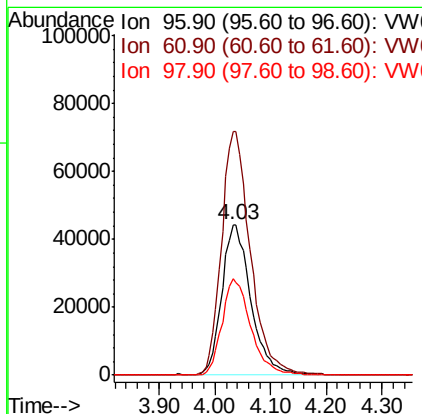
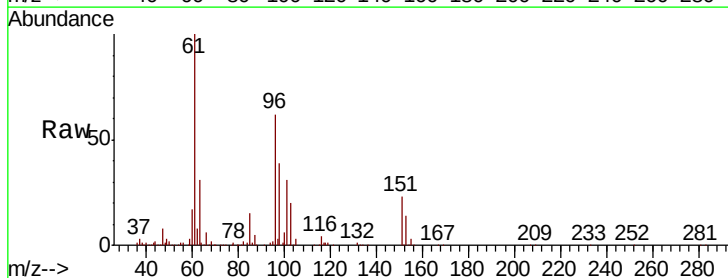
apatel
8/7/2018 4:48:58 PM

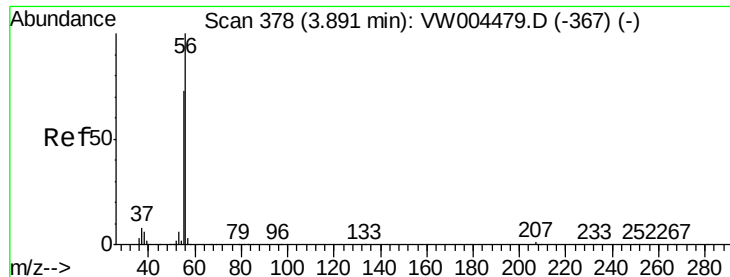


#12

1,1-Dichloroethene
Concen: 21.47 ug/l
RT: 4.03 min Scan# 401
Delta R.T. 0.00 min
Lab File: VW004478.D
Acq: 06 Aug 2018 19:10

Tgt Ion	Ratio	Lower	Upper
96	100		
61	161.8	130.6	195.8
98	63.7	49.6	74.4





#13

Acrolein

Concen: 126.40 ug/l

RT: 3.89 min Scan# 377

Delta R.T. -0.01 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

Instrument :

MSVOA_W

ClientSampled :

VSTDIC020

Tot Ion: 56 Resp: 62816

Ion Ratio Lower Upper

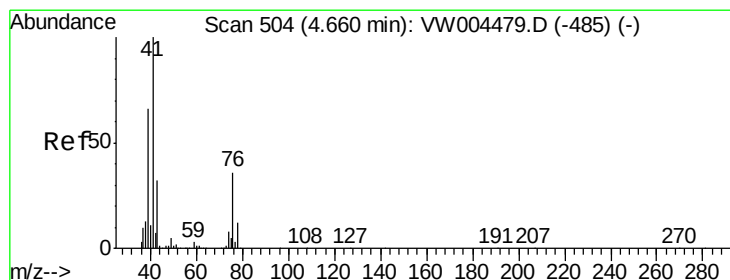
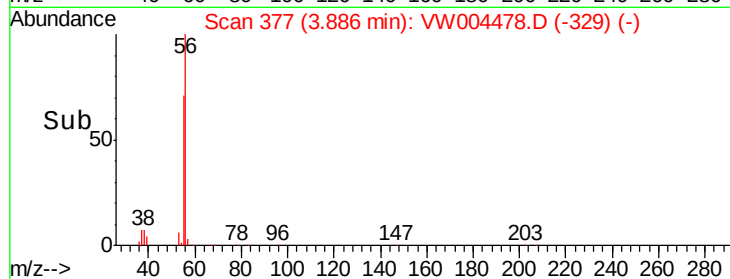
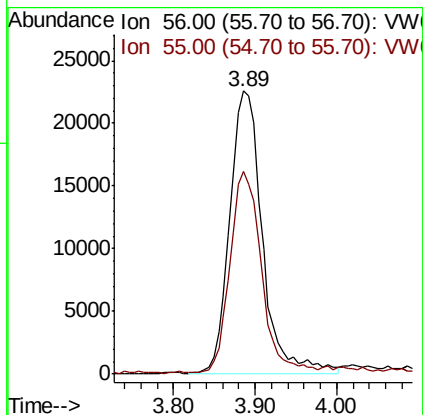
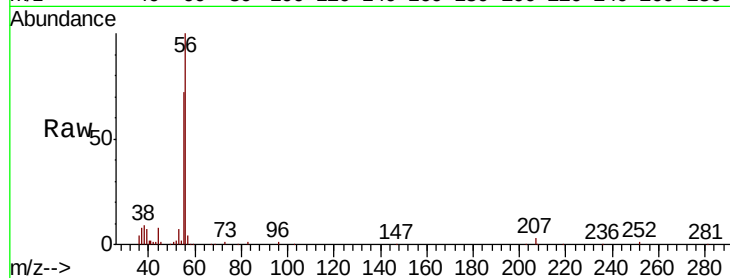
56 100

55 67.2 56.7 85.1

Manual Integrations
APPROVED

apatel

8/7/2018 4:48:58 PM



#14

Allyl chloride

Concen: 19.53 ug/l

RT: 4.66 min Scan# 504

Delta R.T. 0.00 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

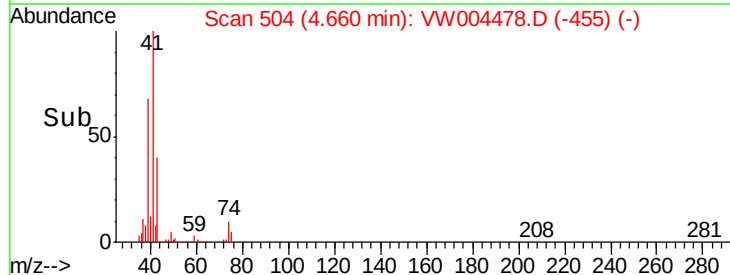
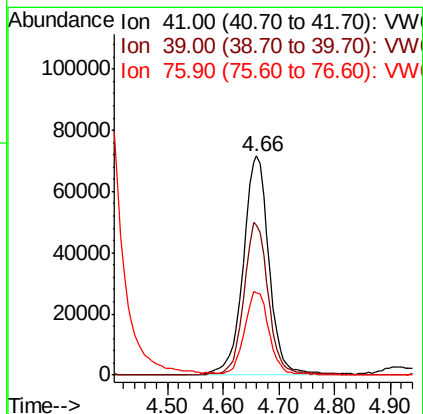
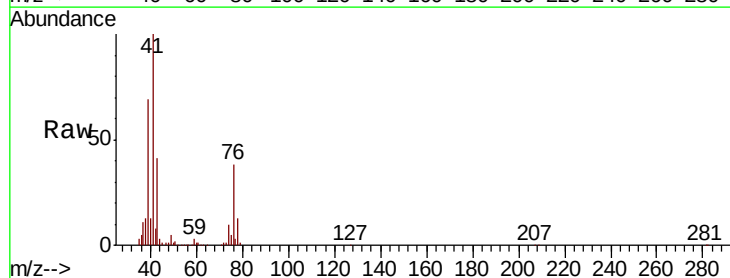
Tgt Ion: 41 Resp: 230082

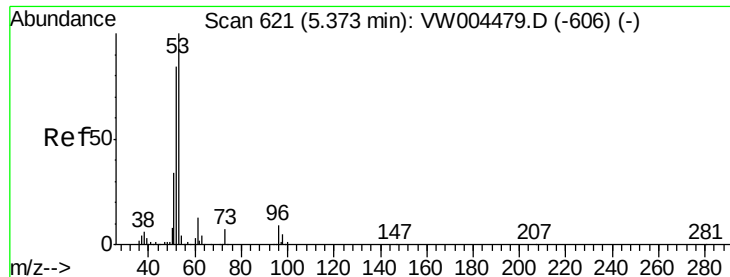
Ion Ratio Lower Upper

41 100

39 66.0 51.9 77.9

76 36.4 29.0 43.6





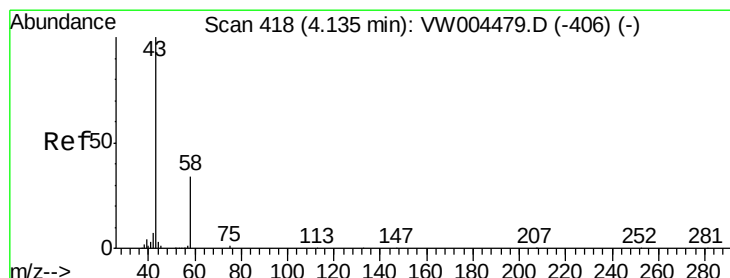
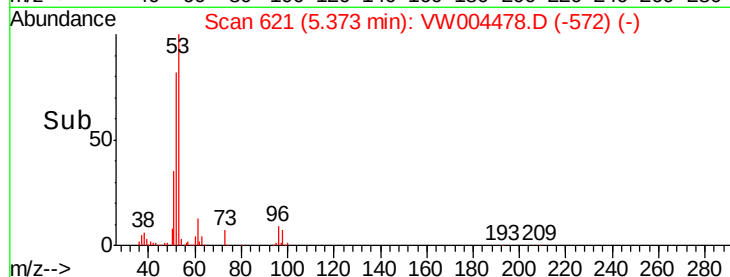
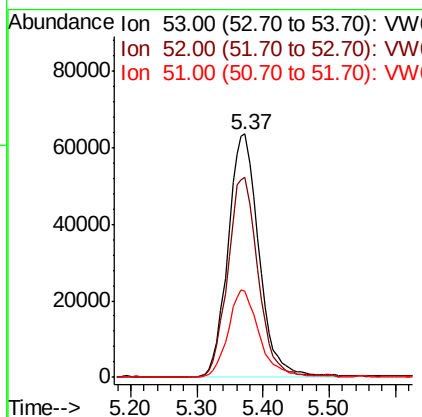
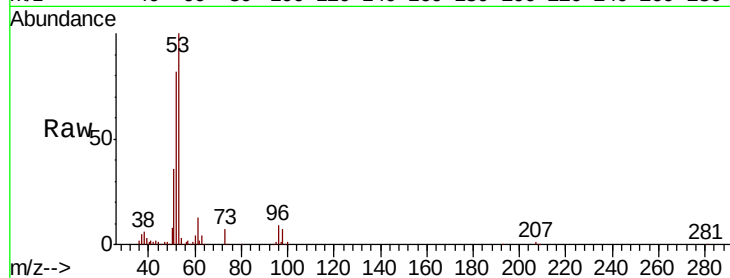
#15
 Acrylonitrile
 Concen: 119.77 ug/l
 RT: 5.37 min Scan# 621
 Delta R.T. 0.00 min
 Lab File: VW004478.D
 Acq: 06 Aug 2018 19:10

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC020

Tot Ion	53	Resp	206575
Ion Ratio	Lower	Upper	
53	100		
52	80.8	66.5	99.7
51	36.1	28.4	42.6

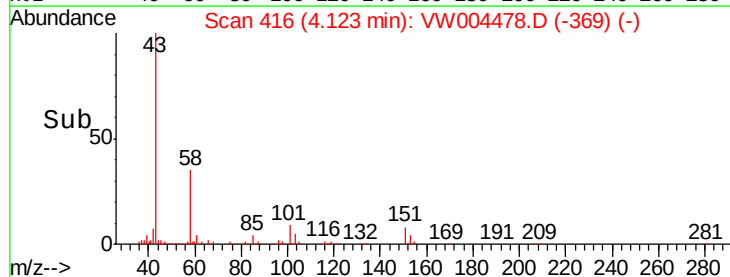
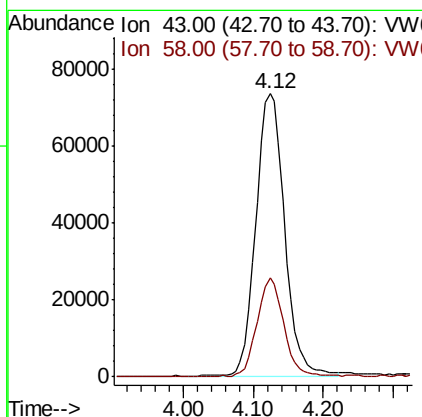
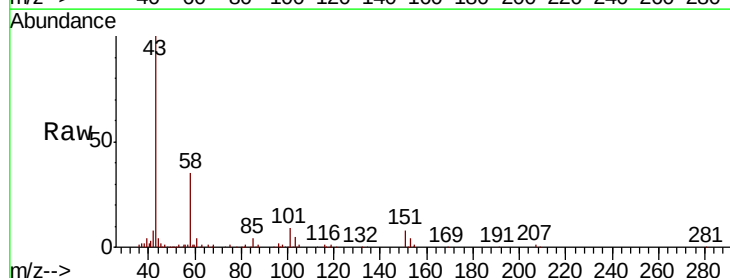
Manual Integrations
 APPROVED

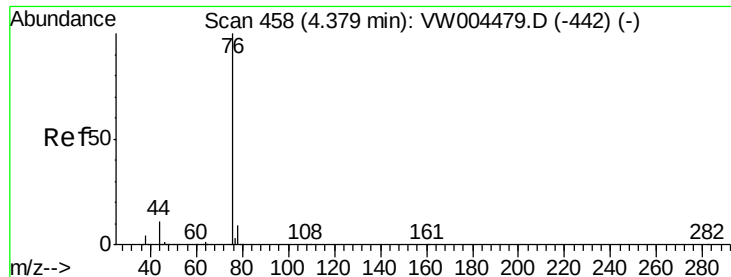
apatel
 8/7/2018 4:48:58 PM



#16
 Acetone
 Concen: 123.14 ug/l
 RT: 4.12 min Scan# 416
 Delta R.T. -0.01 min
 Lab File: VW004478.D
 Acq: 06 Aug 2018 19:10

Tgt Ion	43	Resp	210866
Ion Ratio	Lower	Upper	
43	100		
58	35.1	26.8	40.2





#17

Carbon Disulfide

Concen: 22.38 ug/l

RT: 4.38 min Scan# 458

Delta R.T. 0.00 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 514800

Ion Ratio Lower Upper

76 100

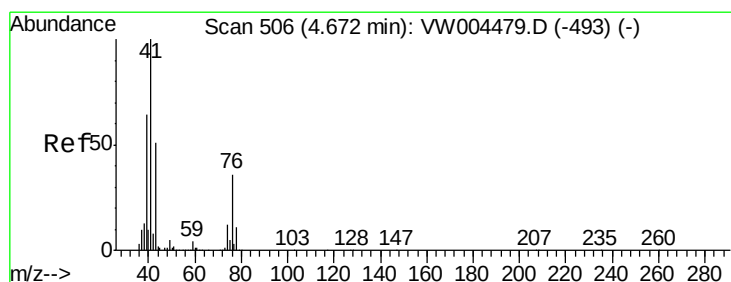
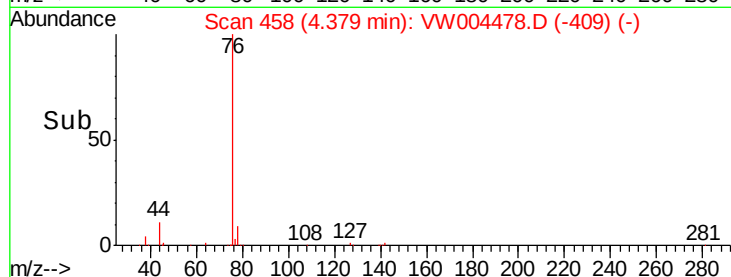
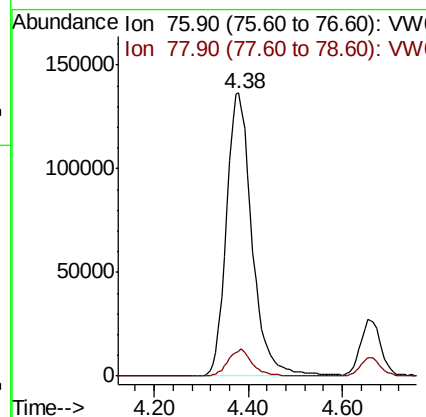
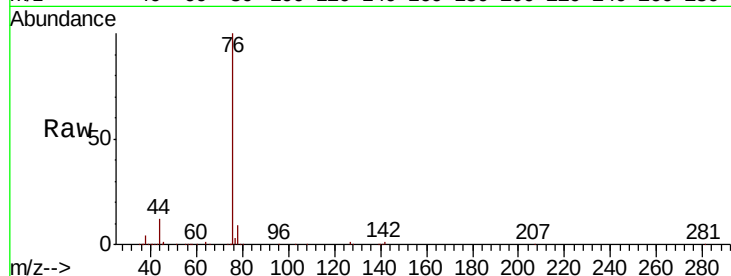
78 9.0 7.0 10.4

Manual Integrations

APPROVED

apatel

8/7/2018 4:48:58 PM



#18

Methyl Acetate

Concen: 21.90 ug/l

RT: 4.67 min Scan# 506

Delta R.T. 0.00 min

Lab File: VW004478.D

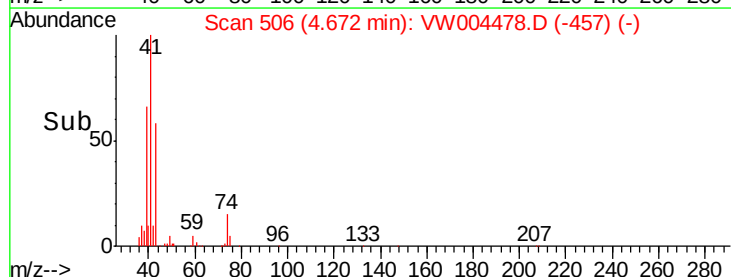
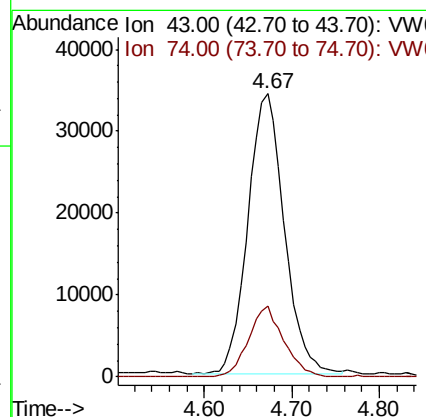
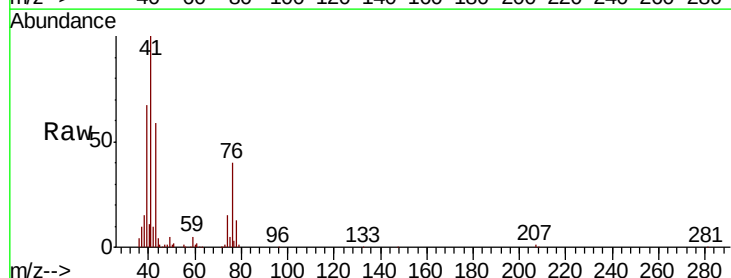
Acq: 06 Aug 2018 19:10

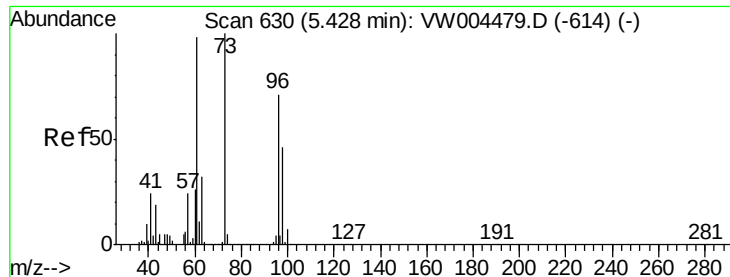
Tgt Ion: 43 Resp: 98028

Ion Ratio Lower Upper

43 100

74 24.5 19.1 28.7





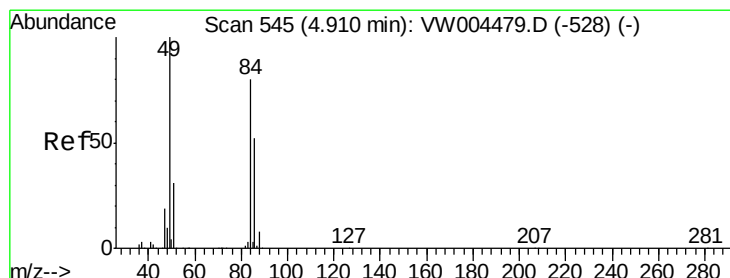
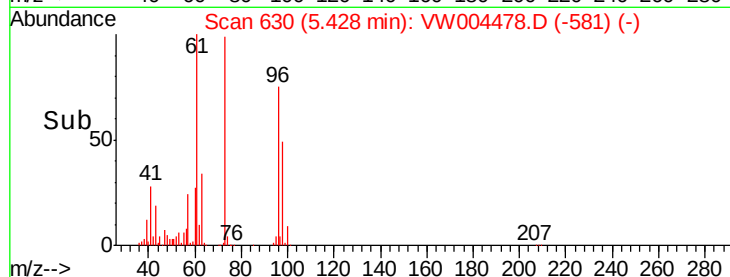
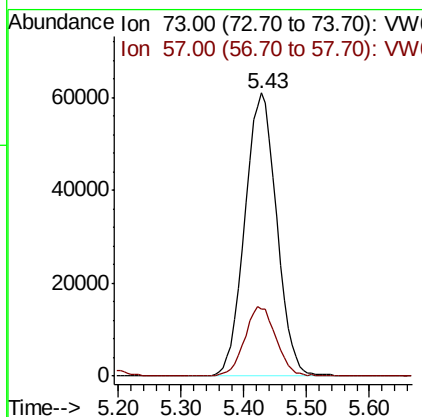
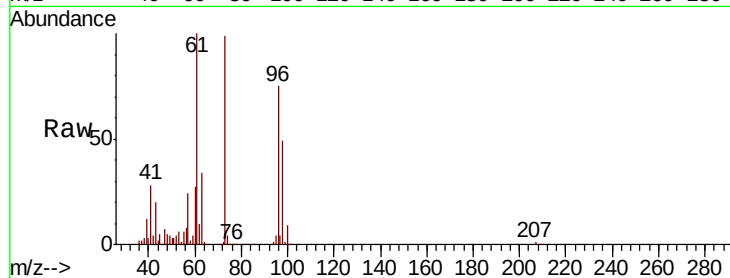
#19
Methyl tert-butyl Ether
Concen: 16.78 ug/l
RT: 5.43 min Scan# 630
Delta R.T. 0.00 min
Lab File: VW004478.D
Acq: 06 Aug 2018 19:10

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
73	100		
57	23.8	19.6	29.4

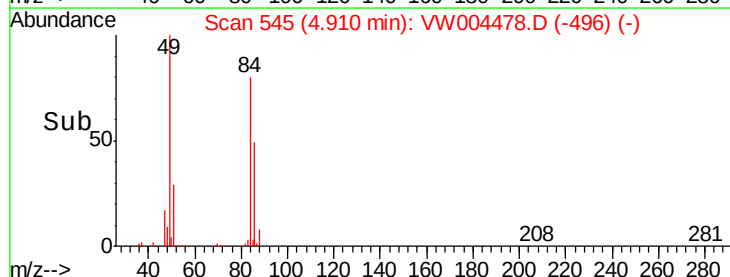
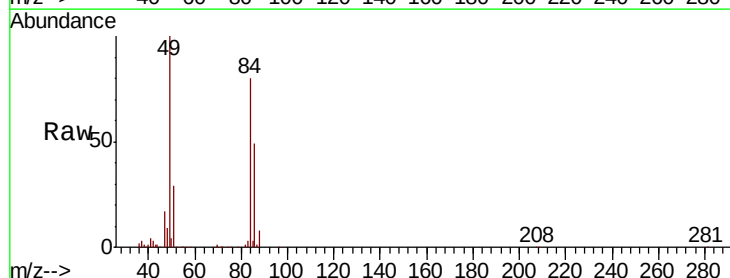
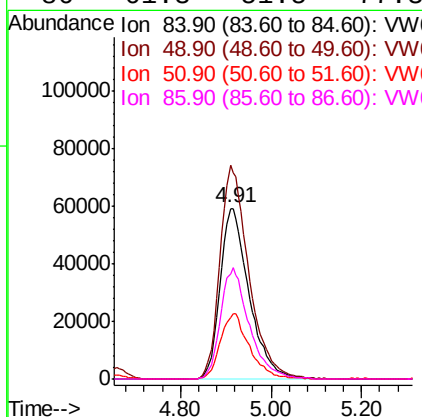
Manual Integrations
APPROVED

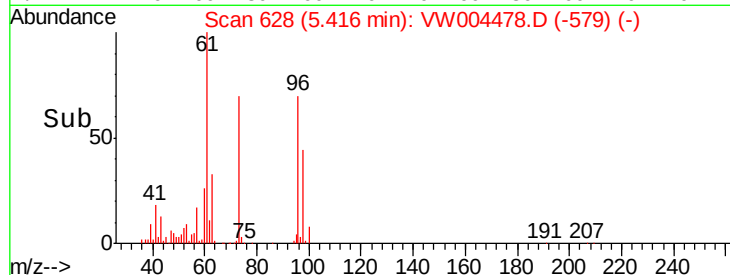
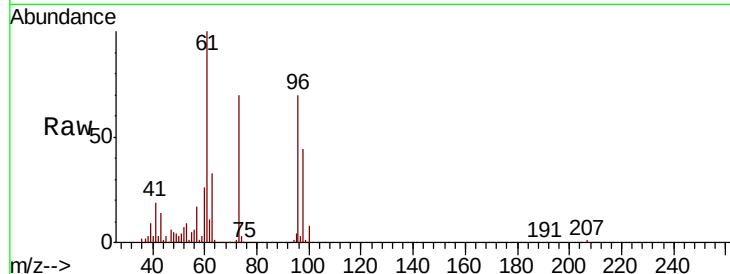
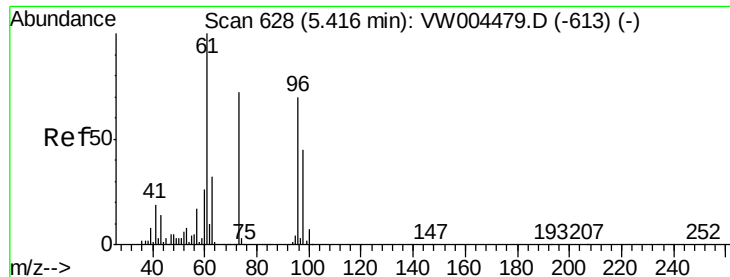
apatel
8/7/2018 4:48:58 PM



#20
Methylene Chloride
Concen: 31.82 ug/l
RT: 4.91 min Scan# 545
Delta R.T. 0.00 min
Lab File: VW004478.D
Acq: 06 Aug 2018 19:10

Tgt Ion	Ratio	Lower	Upper
84	100		
49	125.3	99.6	149.4
51	36.2	31.0	46.4
86	61.3	51.5	77.3





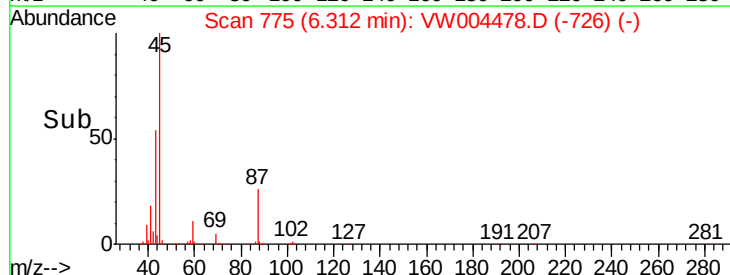
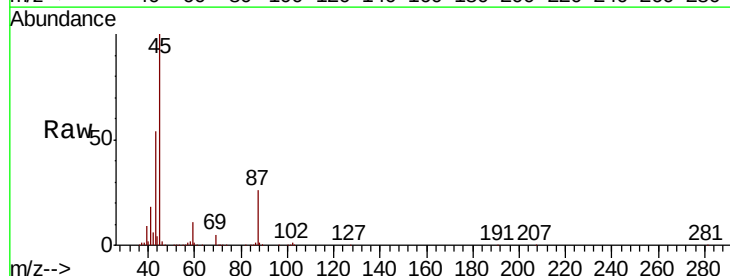
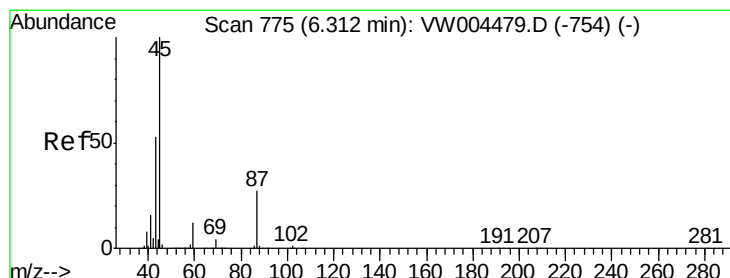
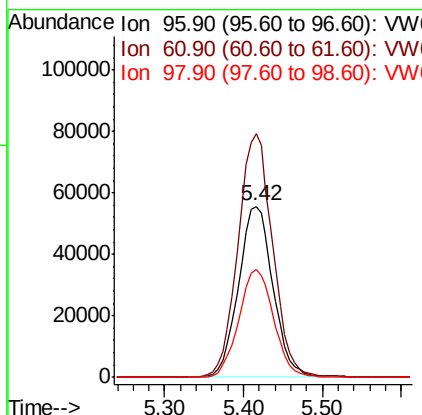
#21
trans-1,2-Dichloroethene
Concen: 21.16 ug/l
RT: 5.42 min Scan# 628
Delta R.T. 0.00 min
Lab File: VW004478.D
Acq: 06 Aug 2018 19:10

Tot Ion	Ratio	Lower	Upper
96	100		
61	142.5	114.1	171.1
98	63.1	51.4	77.2

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

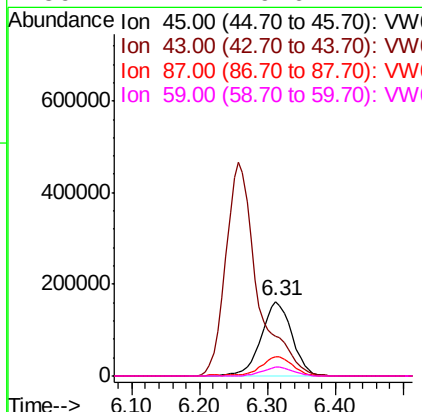
Manual Integrations
APPROVED

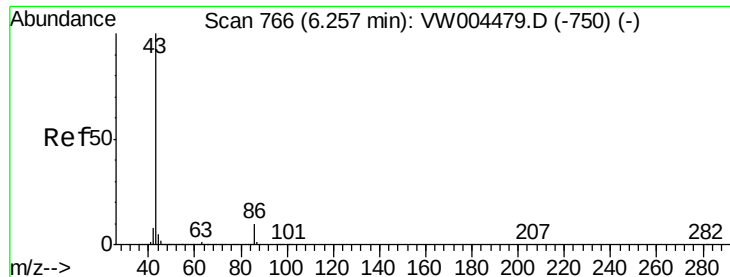
apatel
8/7/2018 4:48:58 PM



#22
Diisopropyl ether
Concen: 22.62 ug/l
RT: 6.31 min Scan# 775
Delta R.T. 0.00 min
Lab File: VW004478.D
Acq: 06 Aug 2018 19:10

Tgt Ion	Ratio	Lower	Upper
45	100		
43	53.9	42.4	63.6
87	26.1	21.6	32.4
59	11.2	9.6	14.4





#23

Vinyl Acetate

Concen: 113.66 ug/l

RT: 6.26 min Scan# 766

Delta R.T. 0.00 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 1502894

Ion Ratio Lower Upper

43 100

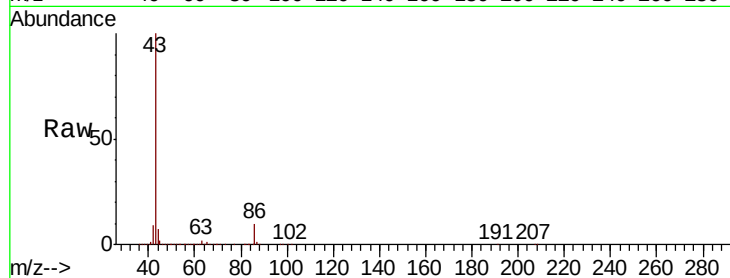
86 10.3 7.9 11.9

Manual Integrations

APPROVED

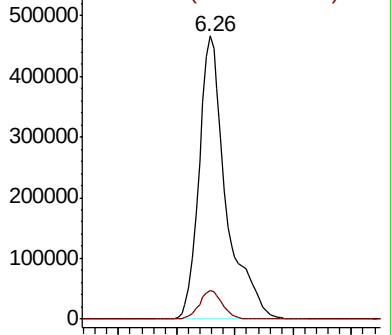
apatel

8/7/2018 4:48:58 PM

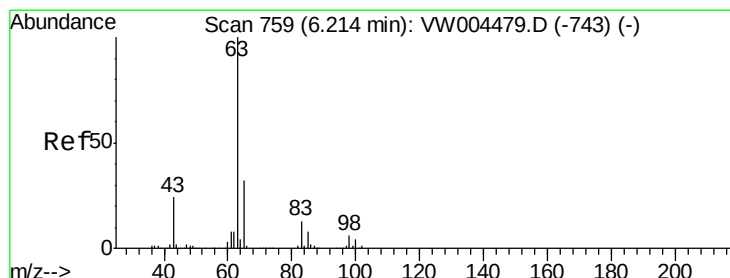
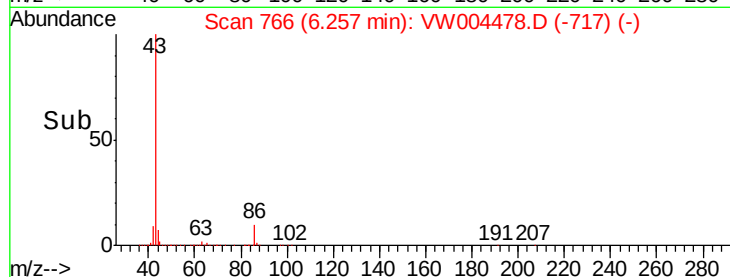


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW



Time-->



#24

1,1-Dichloroethane

Concen: 21.52 ug/l

RT: 6.21 min Scan# 758

Delta R.T. -0.01 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

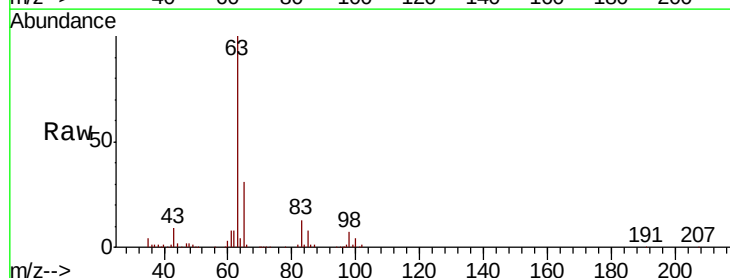
Tgt Ion: 63 Resp: 314220

Ion Ratio Lower Upper

63 100

98 6.6 3.1 9.3

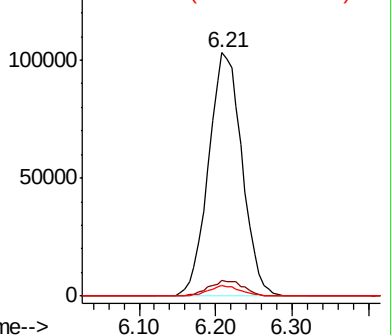
100 4.4 2.1 6.5



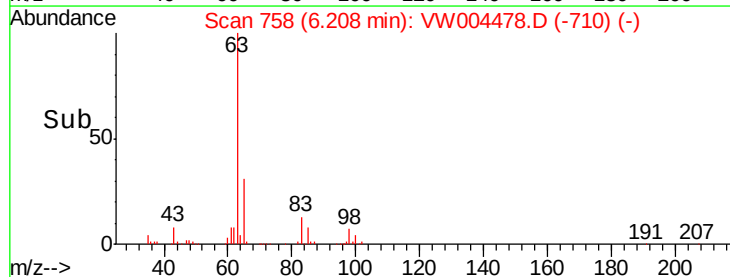
Abundance Ion 62.90 (62.60 to 63.60): VW

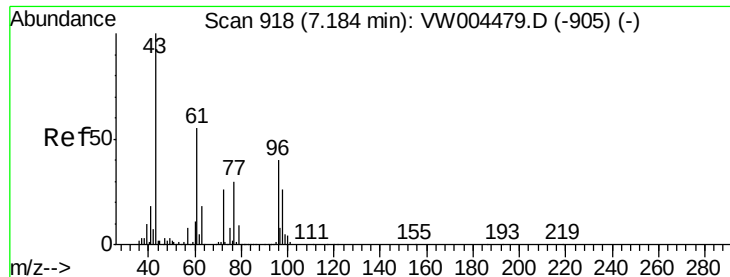
Ion 97.90 (97.60 to 98.60): VW

Ion 99.90 (99.60 to 100.60): VW



Time-->





#25

2-Butanone

Concen: 151.59 ug/l

RT: 7.18 min Scan# 917

Delta R.T. -0.01 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

Instrument :

MSVOA_W

ClientSampled :

VSTDIC020

Tot Ion: 43 Resp: 337420

Ion Ratio Lower Upper

43 100

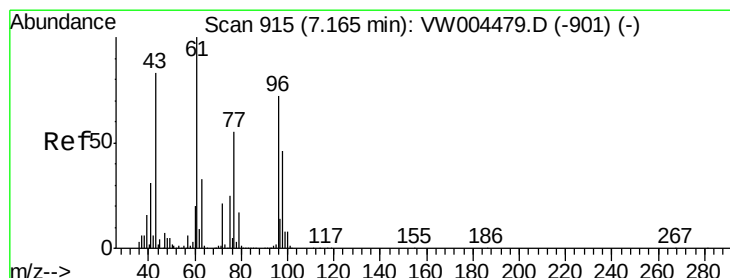
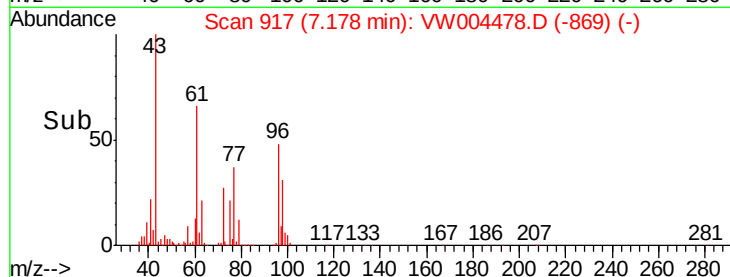
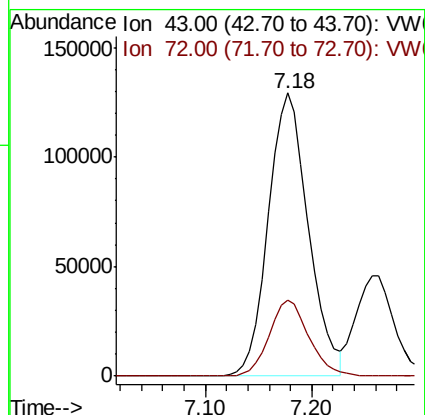
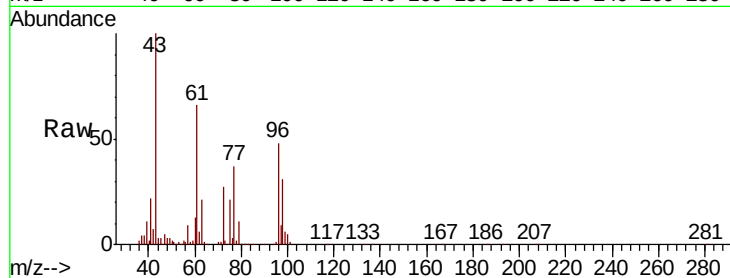
72 26.7 21.0 31.6

Manual Integrations

APPROVED

apatel

8/7/2018 4:48:58 PM



#26

2,2-Dichloropropane

Concen: 19.88 ug/l

RT: 7.17 min Scan# 915

Delta R.T. 0.00 min

Lab File: VW004478.D

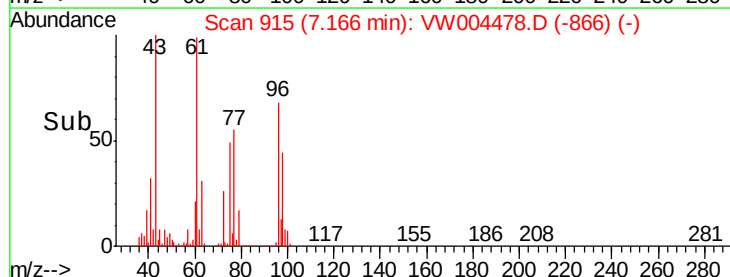
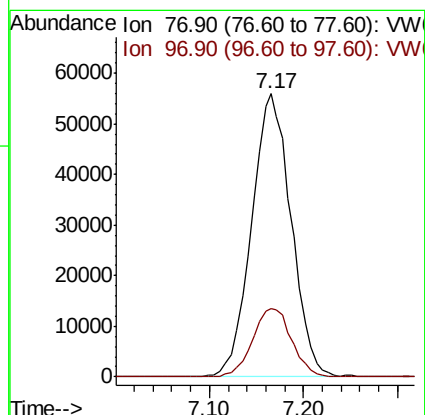
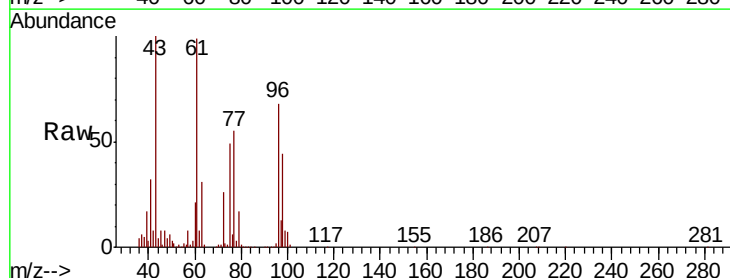
Acq: 06 Aug 2018 19:10

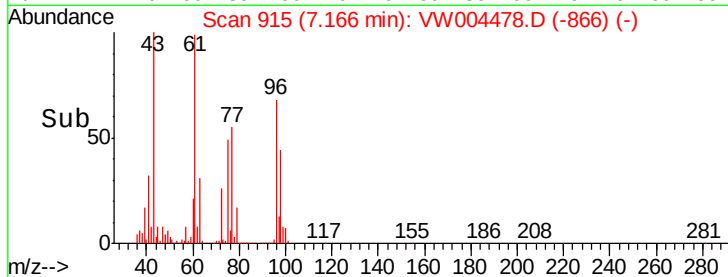
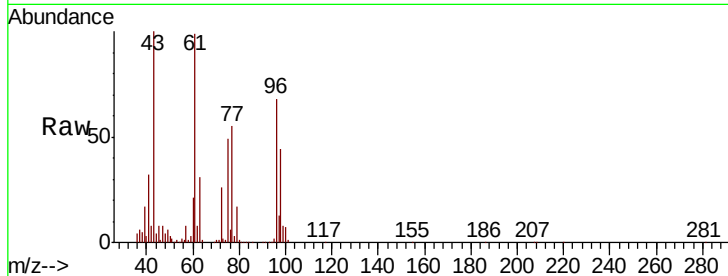
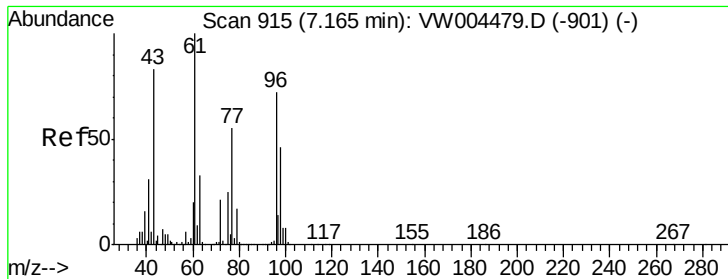
Tgt Ion: 77 Resp: 163952

Ion Ratio Lower Upper

77 100

97 23.9 12.5 37.5





#27

cis-1,2-Dichloroethene

Concen: 22.47 ug/l

RT: 7.17 min Scan# 915

Delta R.T. 0.00 min

Lab File: VW004478.D

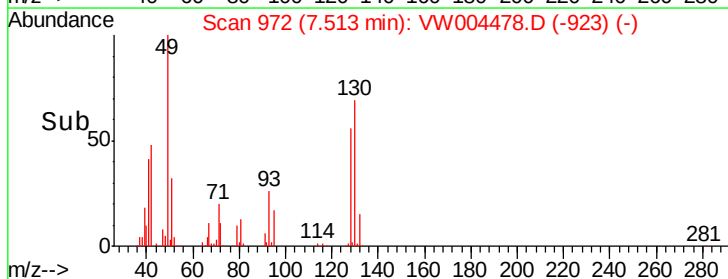
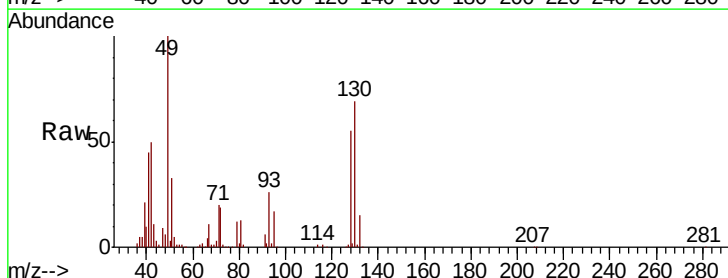
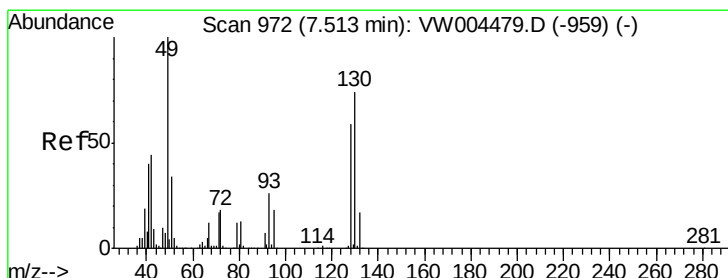
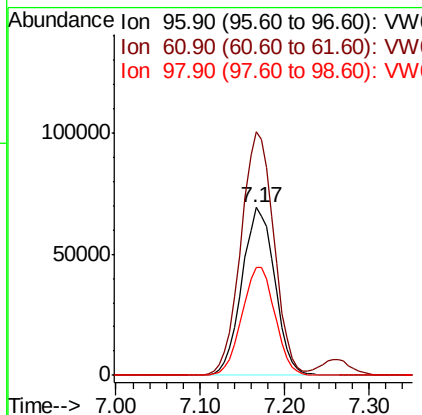
Acq: 06 Aug 2018 19:10

Tot Ion:	96	Resp:	183679
Ion	Ratio	Lower	Upper
96	100		
61	145.2	0.0	285.0
98	64.4	0.0	128.6

Instrument :
MSVOA_W
ClientSampled :
VSTDIC020

Manual Integrations
APPROVED

apatel
8/7/2018 4:48:58 PM



#28

Bromochloromethane

Concen: 25.89 ug/l

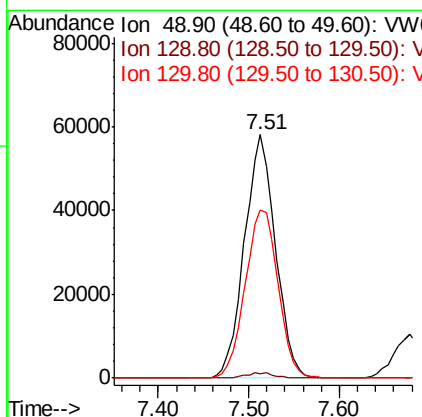
RT: 7.51 min Scan# 972

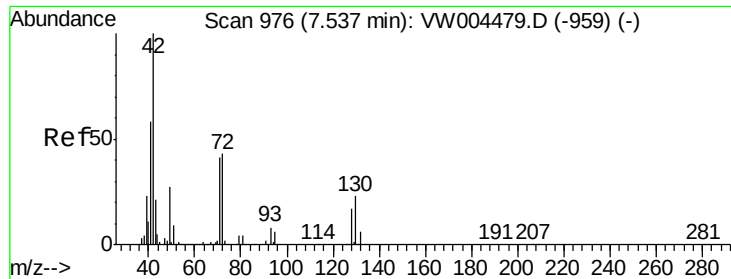
Delta R.T. 0.00 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

Tgt Ion:	49	Resp:	137524
Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.0
130	73.3	58.8	88.2





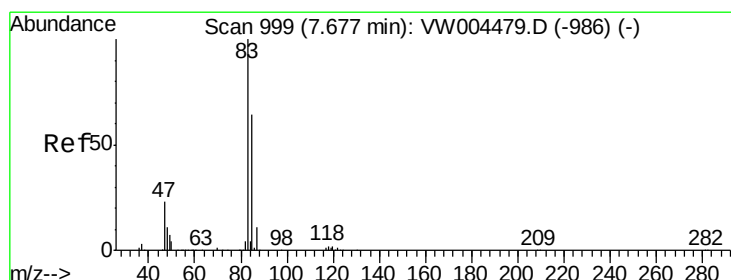
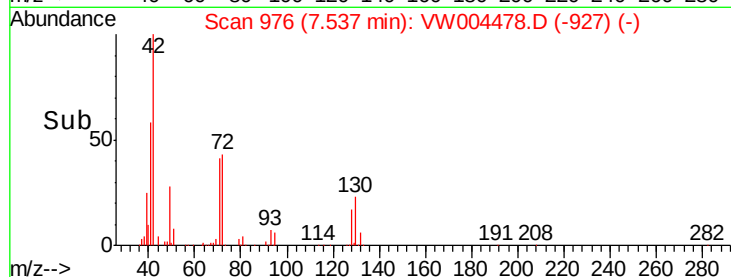
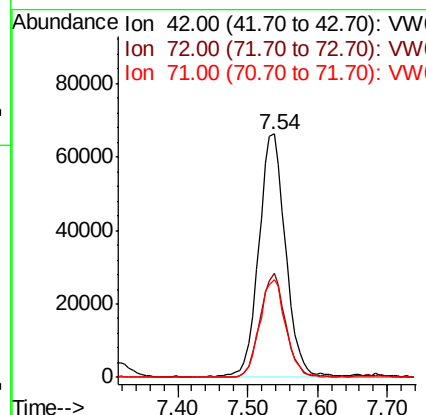
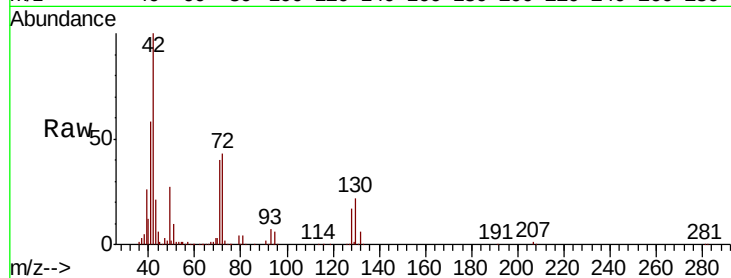
#29
Tetrahydrofuran
Concen: 127.78 ug/l
RT: 7.54 min Scan# 976
Delta R.T. 0.00 min
Lab File: VW004478.D
Acq: 06 Aug 2018 19:10

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.1	34.1	51.1
71	39.2	32.5	48.7

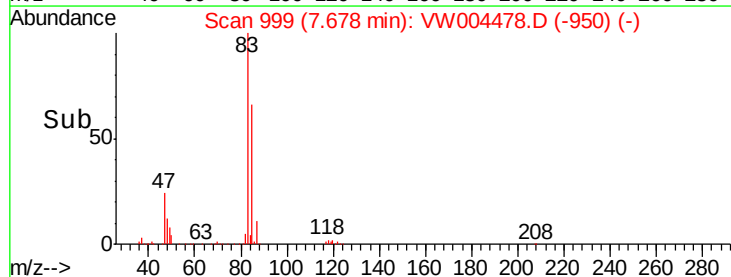
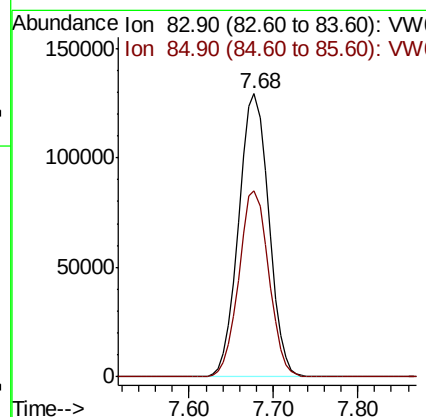
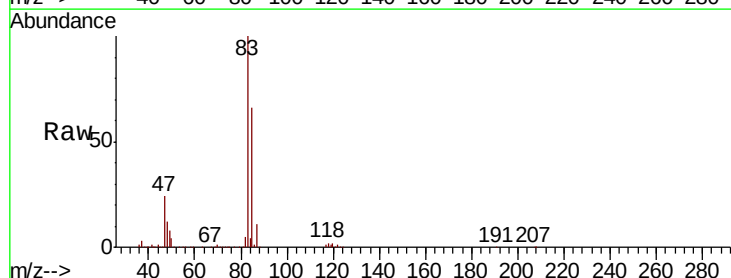
Manual Integrations
APPROVED

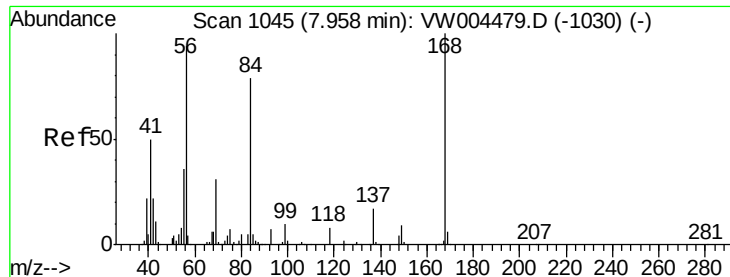
apatel
8/7/2018 4:48:58 PM



#30
Chloroform
Concen: 22.43 ug/l
RT: 7.68 min Scan# 999
Delta R.T. 0.00 min
Lab File: VW004478.D
Acq: 06 Aug 2018 19:10

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.9	51.3	76.9





#31

Cyclohexane

Concen: 23.05 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.01 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

Instrument :

MSVOA_W

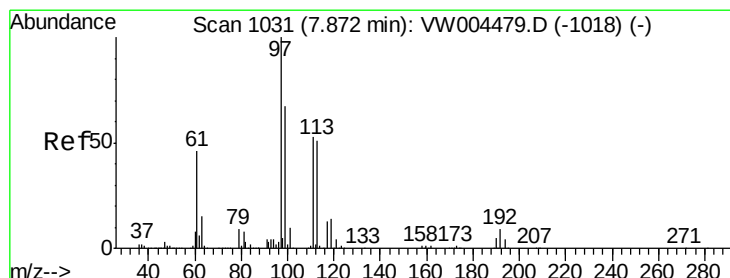
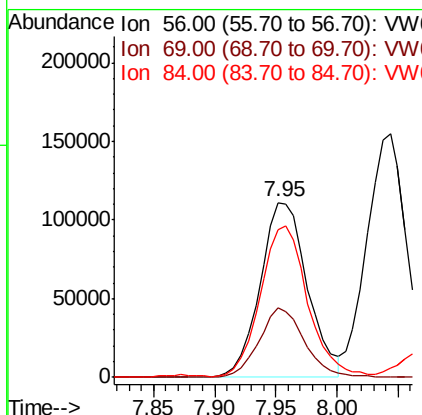
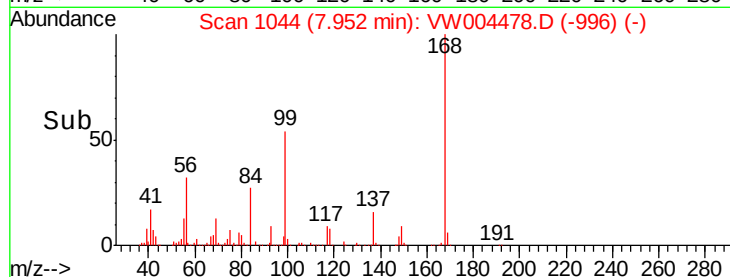
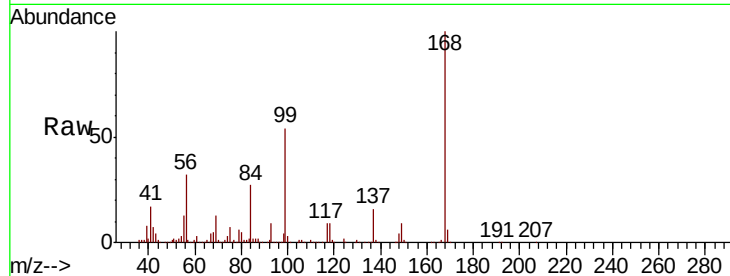
ClientSampleId :

VSTDIC020

Tot Ion:	56	Resp:	298713
Ion Ratio	Lower	Upper	
56	100		
69	39.4	26.4	39.6
84	83.3	66.9	100.3

Manual Integrations
APPROVED

apatel
8/7/2018 4:48:58 PM



#32

1,1,1-Trichloroethane

Concen: 20.57 ug/l

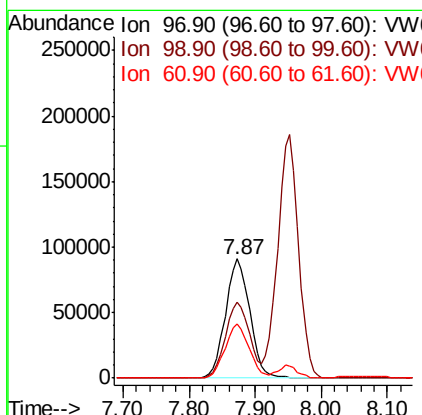
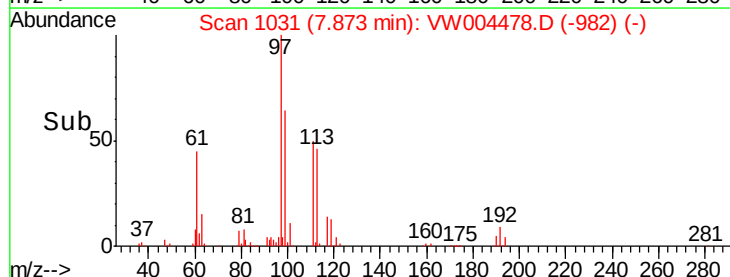
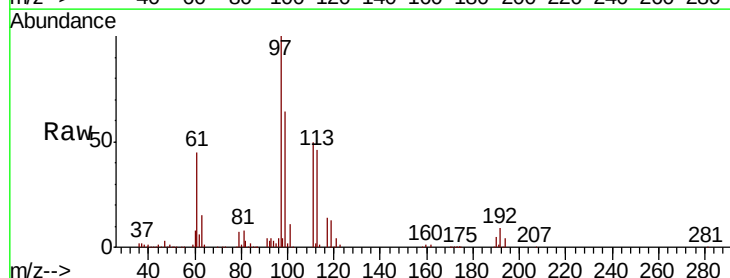
RT: 7.87 min Scan# 1031

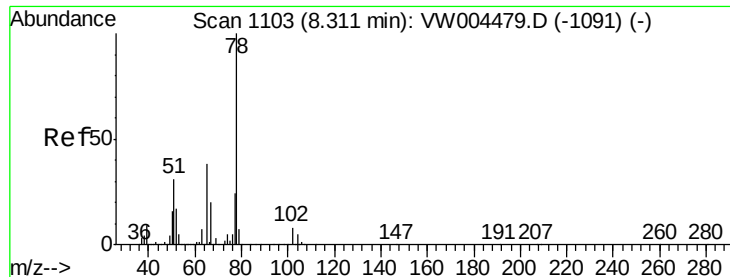
Delta R.T. 0.00 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

Tgt Ion:	97	Resp:	231671
Ion Ratio	Lower	Upper	
97	100		
99	63.3	51.6	77.4
61	45.2	35.7	53.5





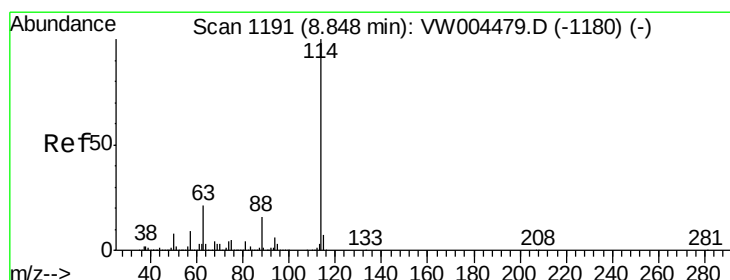
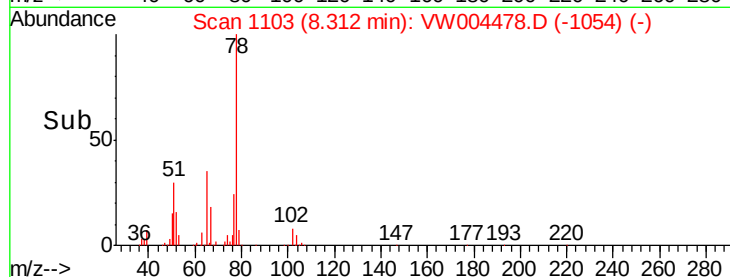
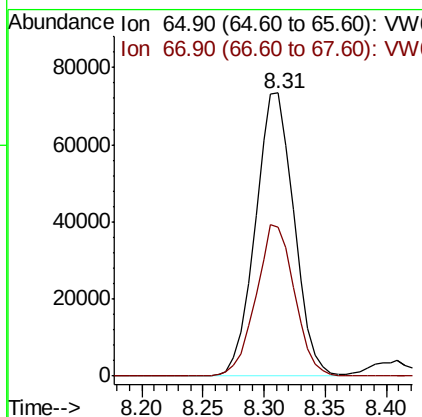
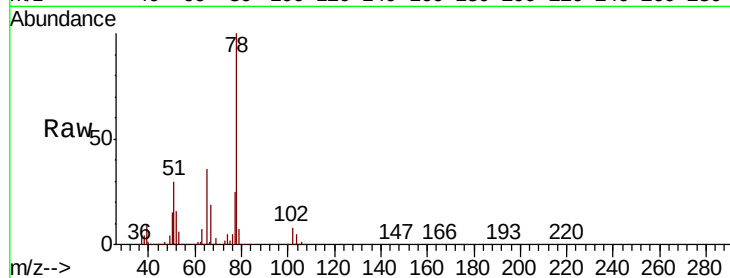
#33
 1,2-Dichloroethane-d4
 Concen: 21.49 ug/l
 RT: 8.31 min Scan# 1103
 Delta R.T. 0.00 min
 Lab File: VW004478.D
 Acq: 06 Aug 2018 19:10

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
65	100	161258		
67	53.1	0.0	109.0	

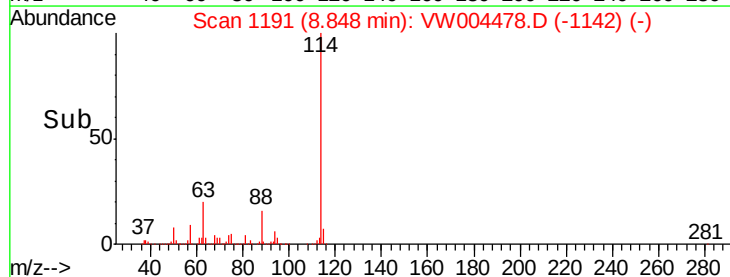
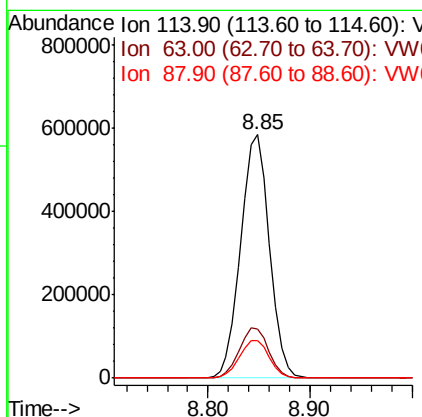
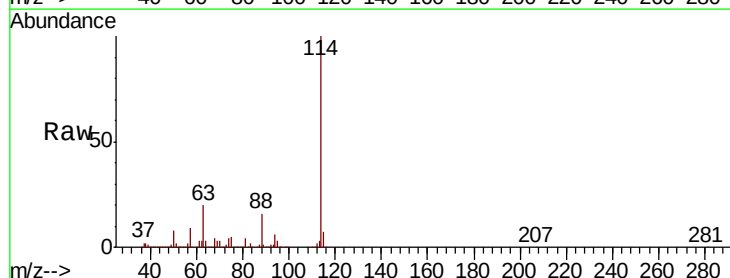
Manual Integrations
 APPROVED

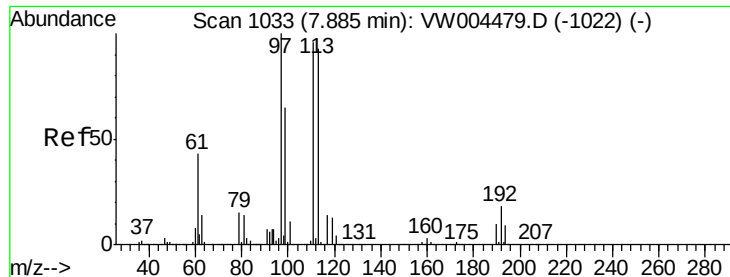
apatel
 8/7/2018 4:48:58 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.85 min Scan# 1191
 Delta R.T. 0.00 min
 Lab File: VW004478.D
 Acq: 06 Aug 2018 19:10

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1147025		
63	20.2	0.0	42.4	
88	15.6	0.0	31.2	





#35

Dibromofluoromethane

Concen: 20.27 ug/l

RT: 7.88 min Scan# 1033

Delta R.T. 0.00 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

Instrument :

MSVOA_W

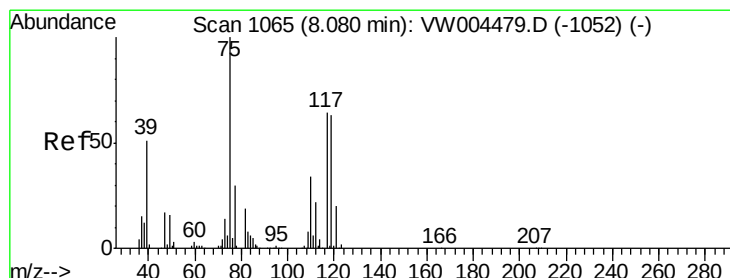
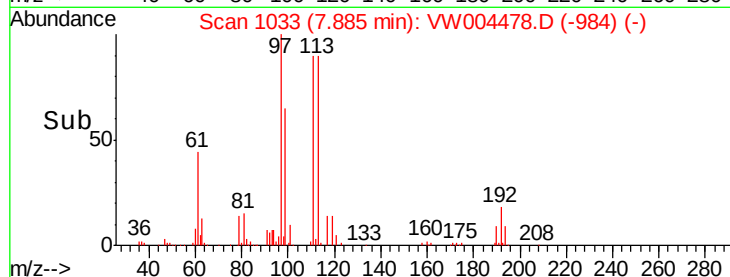
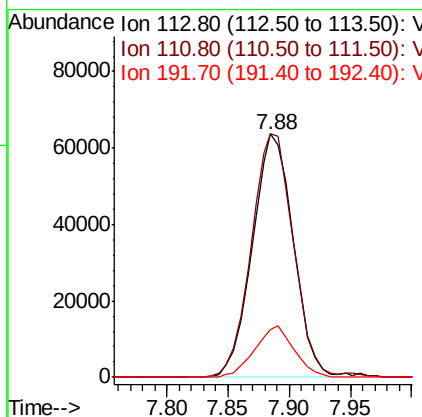
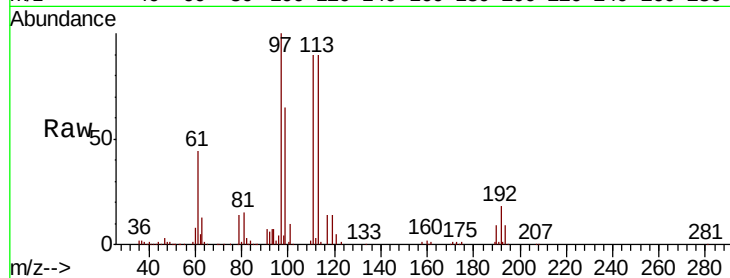
ClientSampleId :

VSTDIC020

Tot Ion:	113	Resp:	148265
Ion Ratio	Lower	Upper	
113	100		
111	102.3	82.9	124.3
192	20.5	15.8	23.6

Manual Integrations
APPROVED

apatel
8/7/2018 4:48:58 PM



#36

1,1-Dichloropropene

Concen: 21.51 ug/l

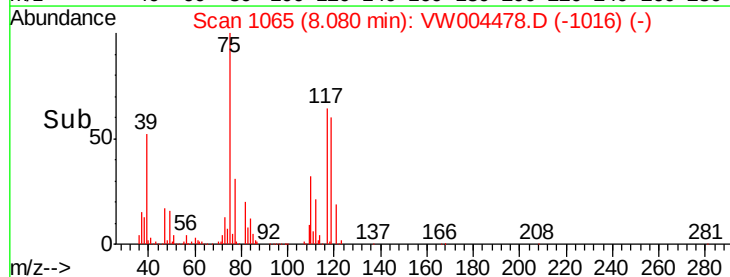
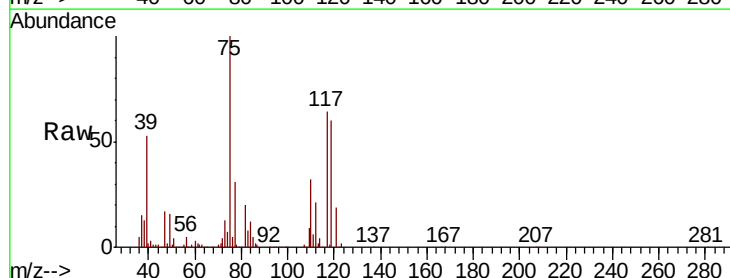
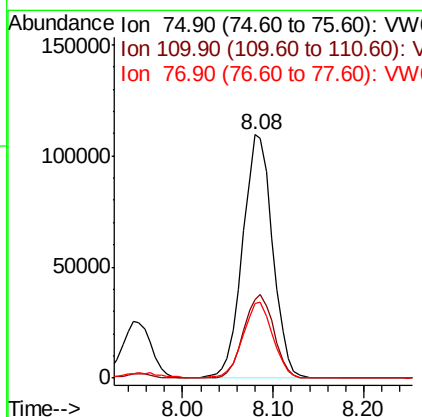
RT: 8.08 min Scan# 1065

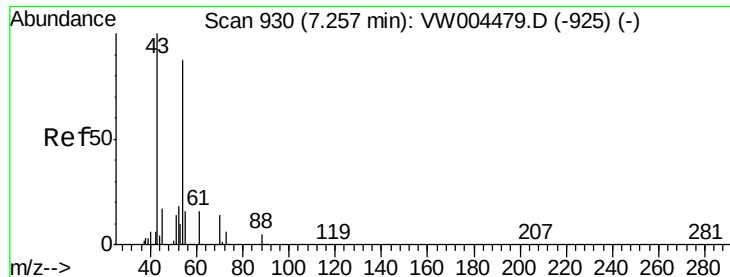
Delta R.T. 0.00 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

Tgt Ion:	75	Resp:	249628
Ion Ratio	Lower	Upper	
75	100		
110	34.6	17.4	52.2
77	31.5	24.7	37.1





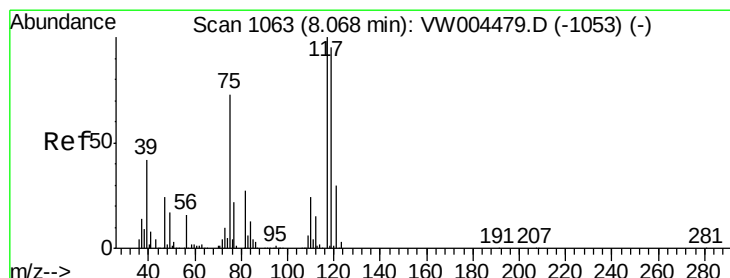
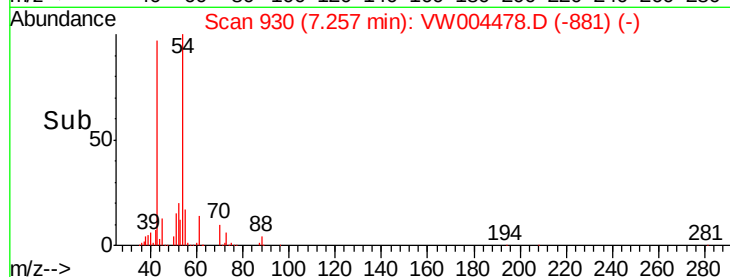
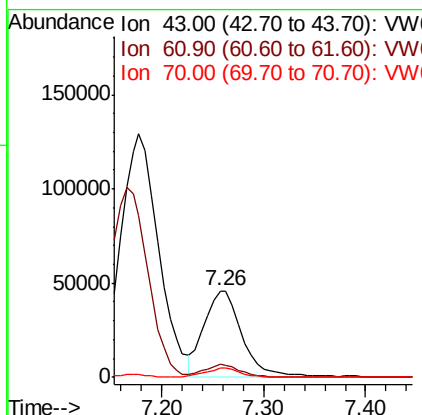
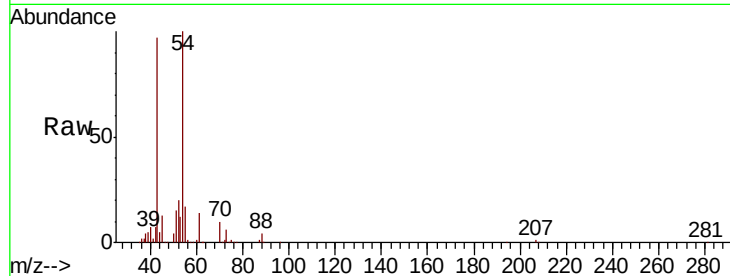
#37
Ethyl Acetate
Concen: 24.36 ug/l
RT: 7.26 min Scan# 930
Delta R.T. 0.00 min
Lab File: VW004478.D
Acq: 06 Aug 2018 19:10

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

Tot Ion:	43	Resp:	117194
Ion	Ratio	Lower	Upper
43	100		
61	14.3	11.9	17.9
70	10.0	8.2	12.4

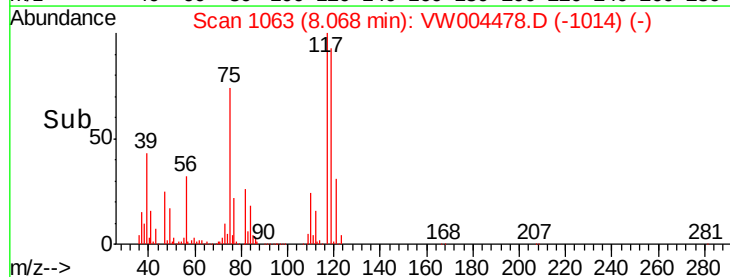
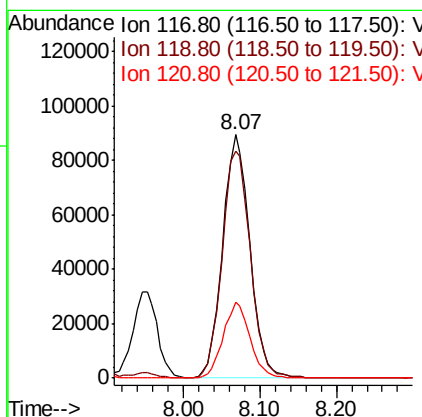
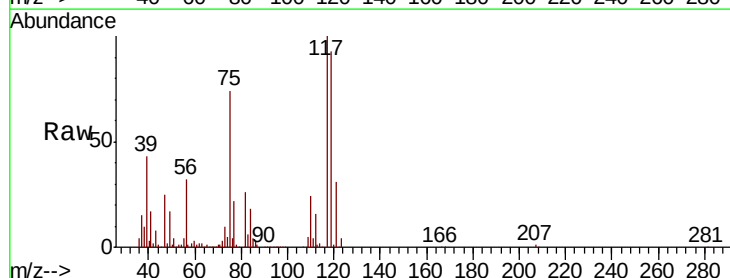
Manual Integrations
APPROVED

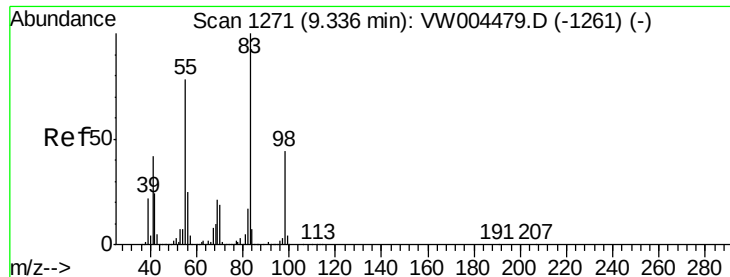
apatel
8/7/2018 4:48:58 PM



#38
Carbon Tetrachloride
Concen: 19.47 ug/l
RT: 8.07 min Scan# 1063
Delta R.T. 0.00 min
Lab File: VW004478.D
Acq: 06 Aug 2018 19:10

Tgt Ion:	117	Resp:	220440
Ion	Ratio	Lower	Upper
117	100		
119	93.2	76.1	114.1
121	31.1	24.2	36.4





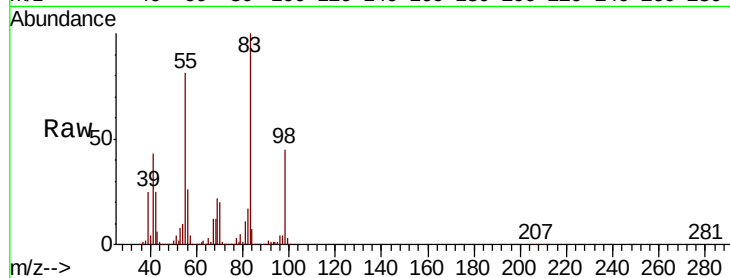
#39
Methylvlcyclohexane
Concen: 20.80 ug/l
RT: 9.34 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VW004478.D
Acq: 06 Aug 2018 19:10

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

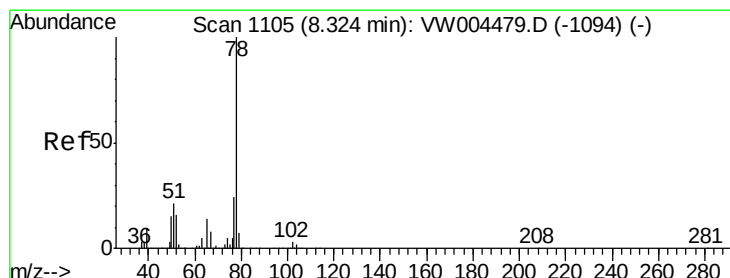
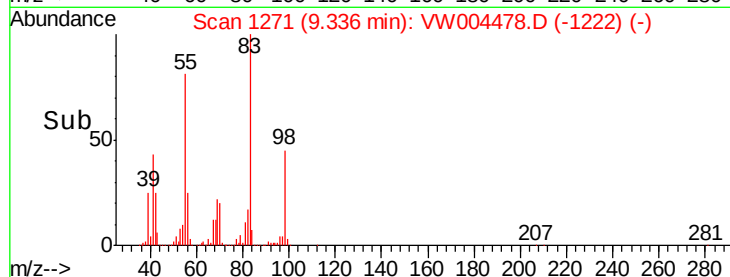
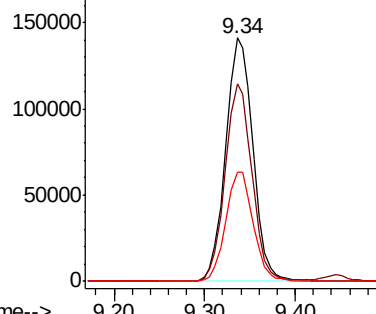
Tot Ion	Ratio	Lower	Upper
83	100		
55	81.3	62.5	93.7
98	44.9	35.4	53.2

Manual Integrations
APPROVED

apatel
8/7/2018 4:48:58 PM

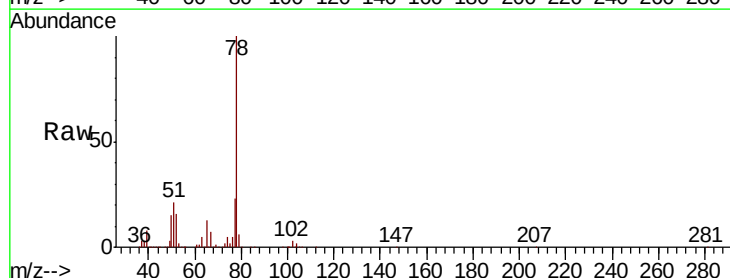


Abundance Ion 83.00 (82.70 to 83.70): VW
Ion 55.00 (54.70 to 55.70): VW
Ion 98.00 (97.70 to 98.70): VW

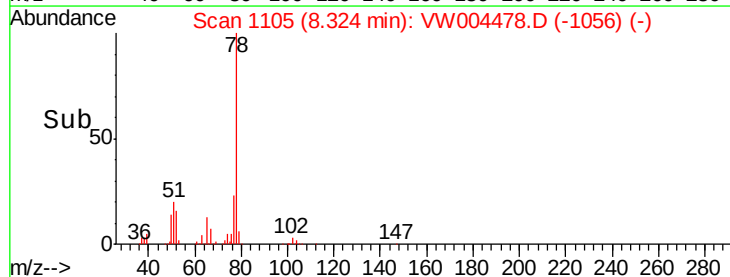
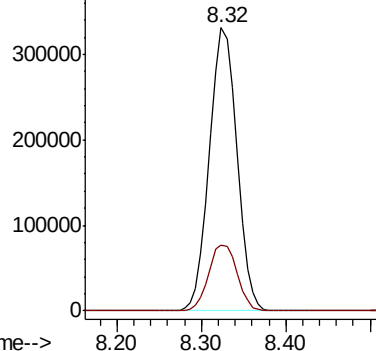


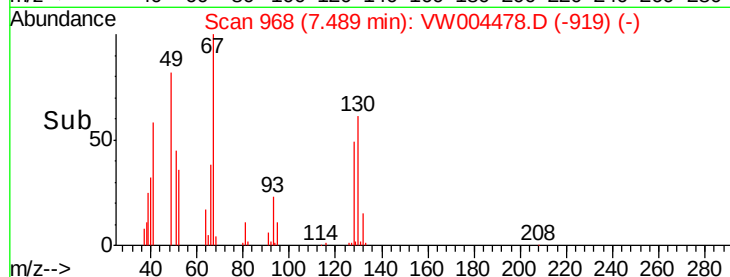
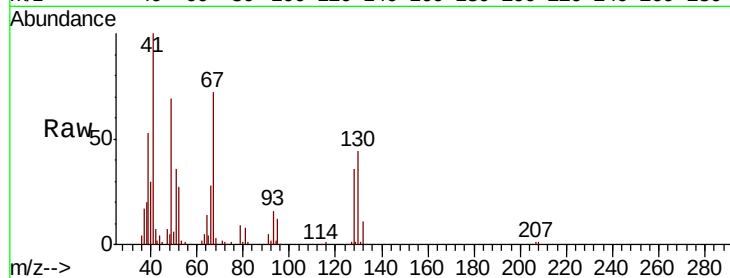
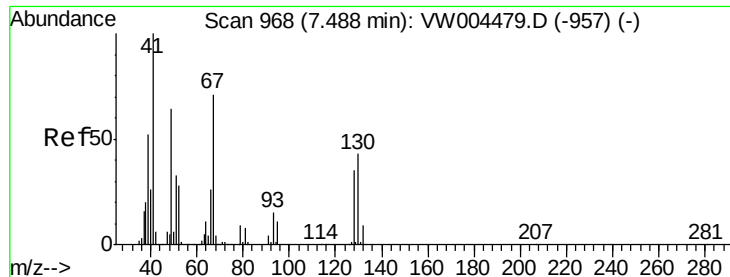
#40
Benzene
Concen: 22.23 ug/l
RT: 8.32 min Scan# 1105
Delta R.T. 0.00 min
Lab File: VW004478.D
Acq: 06 Aug 2018 19:10

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.3	19.0	28.6



Abundance Ion 78.00 (77.70 to 78.70): VW
Ion 77.00 (76.70 to 77.70): VW





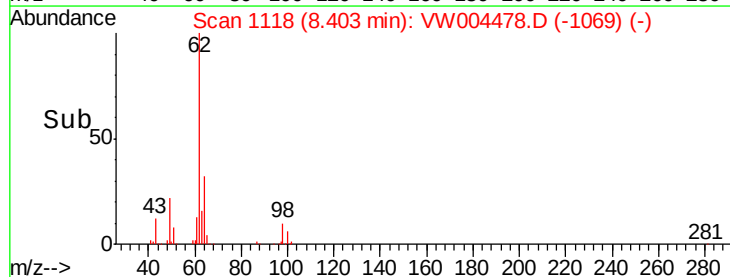
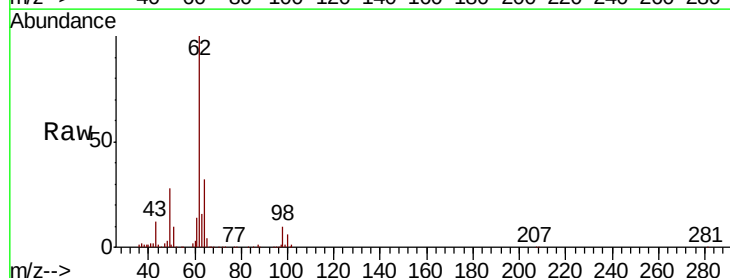
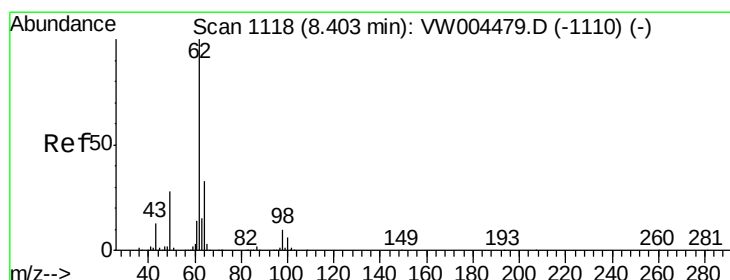
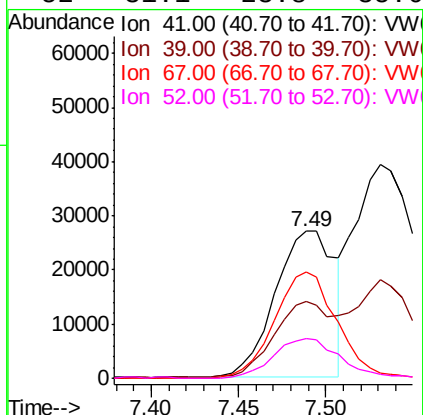
#41
Methacrylonitrile
Concen: 23.52 ug/l
RT: 7.49 min Scan# 968
Delta R.T. 0.00 min
Lab File: VW004478.D
Acq: 06 Aug 2018 19:10

Tot Ion	Ion	Ratio	Lower	Upper
41	41	100		
39	39	53.2	46.2	69.2
67	67	76.1	60.8	91.2
52	52	31.1	23.8	35.6

Instrument :
MSVOA_W
ClientSampled :
VSTDIC020

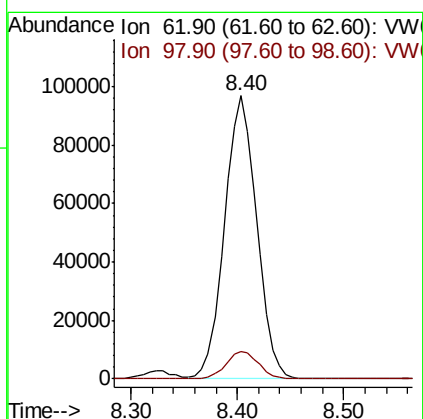
Manual Integrations
APPROVED

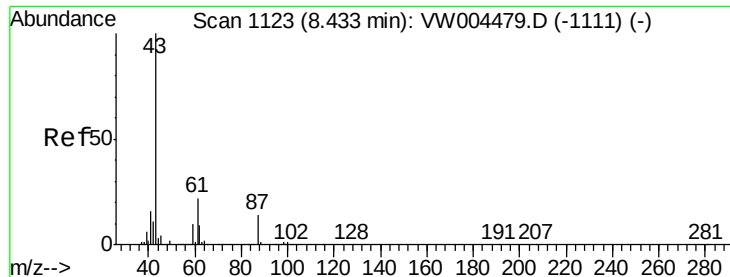
apatel
8/7/2018 4:48:58 PM



#42
1,2-Dichloroethane
Concen: 21.90 ug/l
RT: 8.40 min Scan# 1118
Delta R.T. 0.00 min
Lab File: VW004478.D
Acq: 06 Aug 2018 19:10

Tgt Ion	Ion	Ratio	Lower	Upper
62	62	100		
98	98	9.7	0.0	19.6





#43

Isopropyl Acetate

Concen: 22.85 ug/l

RT: 8.43 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

Instrument :

MSVOA_W

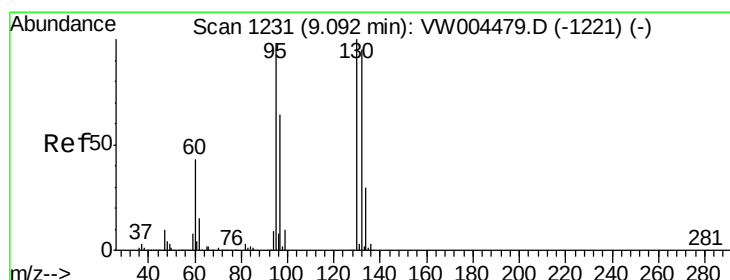
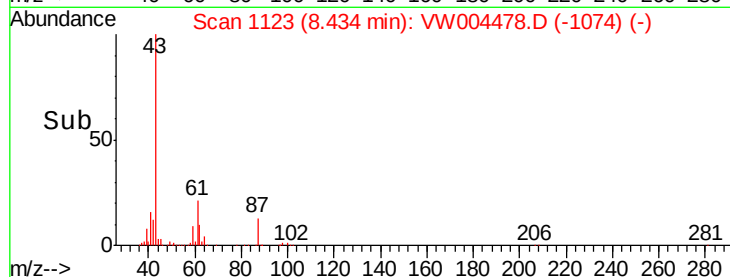
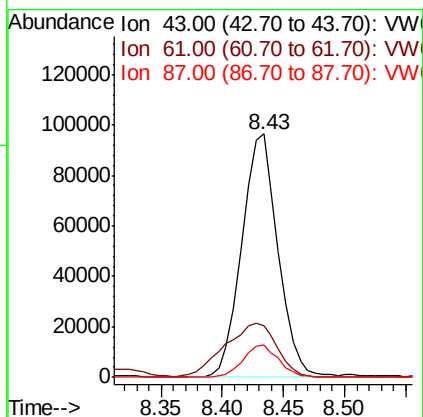
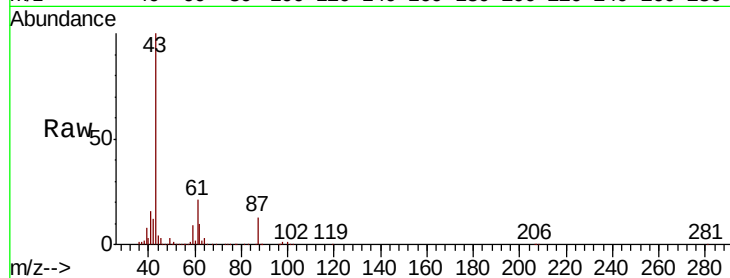
ClientSampleId :

VSTDIC020

Tot Ion:	43	Resp:	197351
Ion	Ratio	Lower	Upper
43	100		
61	32.1	25.2	37.8
87	13.2	10.6	16.0

Manual Integrations
APPROVED

apatel
8/7/2018 4:48:58 PM



#44

Trichloroethene

Concen: 20.42 ug/l

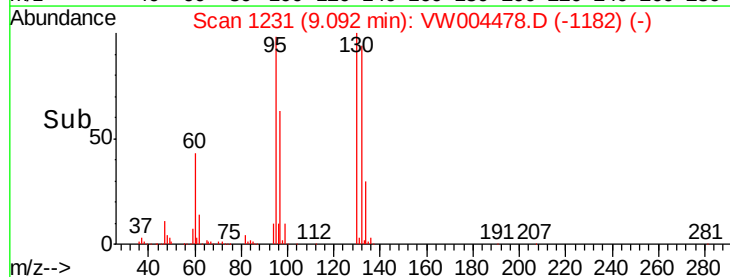
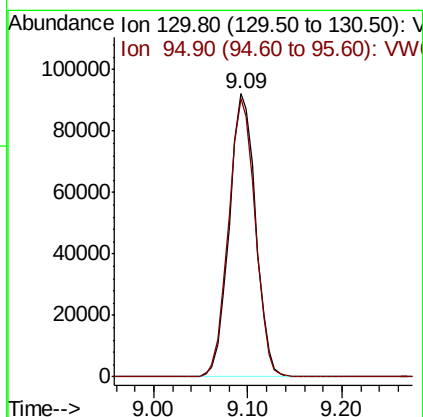
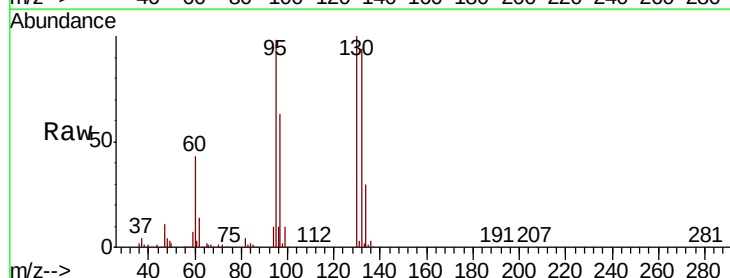
RT: 9.09 min Scan# 1231

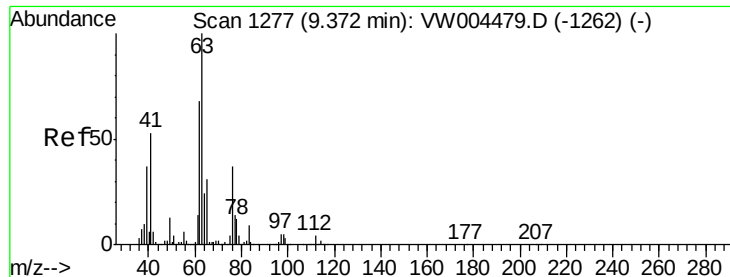
Delta R.T. 0.00 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

Tgt Ion:	130	Resp:	178883
Ion	Ratio	Lower	Upper
130	100		
95	98.4	0.0	196.2





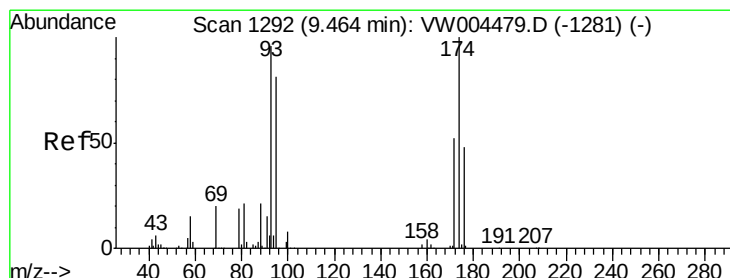
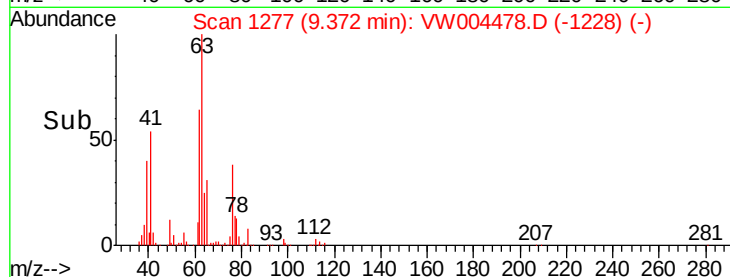
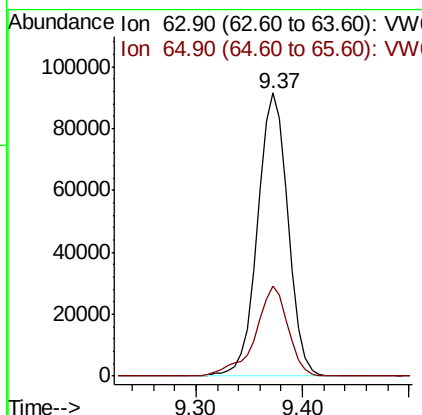
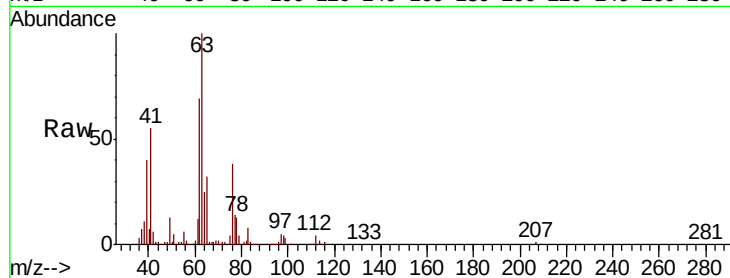
#45
 1,2-Dichloropropane
 Concen: 22.51 ug/l
 RT: 9.37 min Scan# 1277
 Delta R.T. 0.00 min
 Lab File: VW004478.D
 Acq: 06 Aug 2018 19:10

Instrument :
 MSVOA_W
 ClientSampled :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.8	24.5	36.7

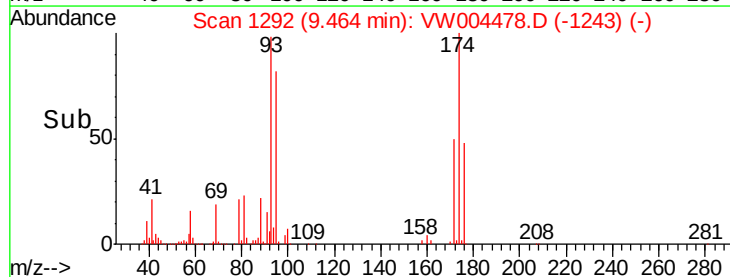
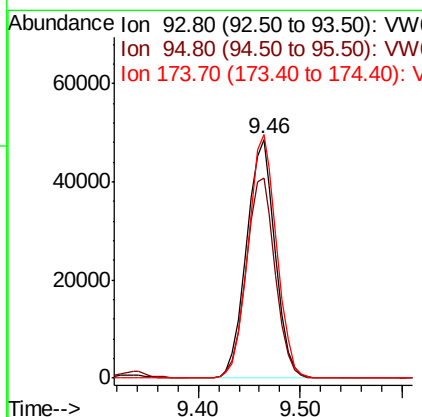
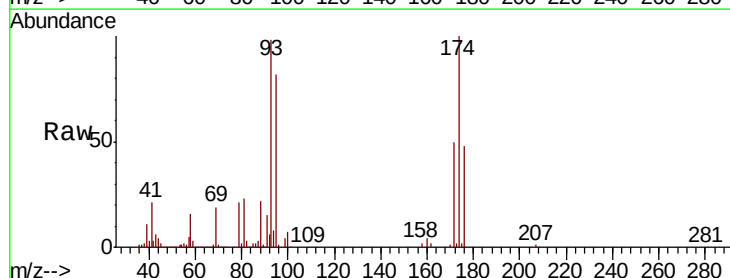
Manual Integrations
 APPROVED

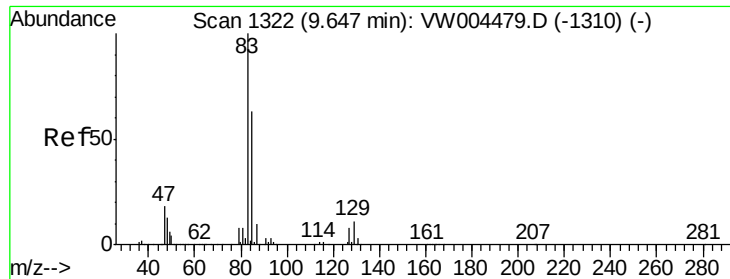
apatel
 8/7/2018 4:48:58 PM



#46
 Dibromomethane
 Concen: 22.76 ug/l
 RT: 9.46 min Scan# 1292
 Delta R.T. 0.00 min
 Lab File: VW004478.D
 Acq: 06 Aug 2018 19:10

Tgt Ion	Ratio	Lower	Upper
93	100		
95	85.1	67.0	100.4
174	101.3	80.2	120.4





#47

Bromodichloromethane

Concen: 20.85 ug/l

RT: 9.65 min Scan# 1322

Delta R.T. 0.00 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

Instrument :

MSVOA_W

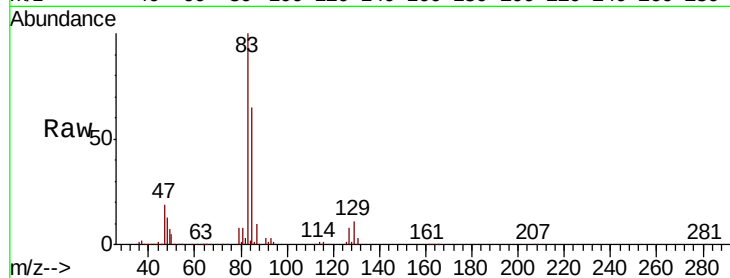
ClientSampleId :

VSTDIC020

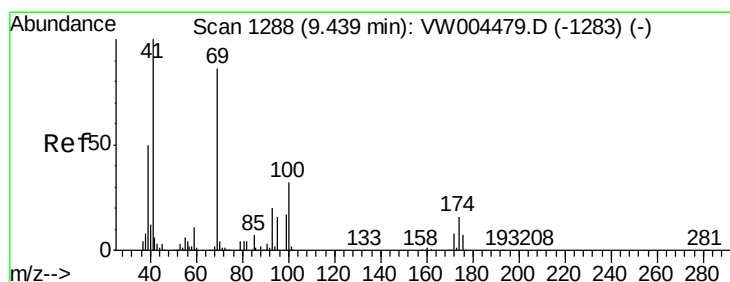
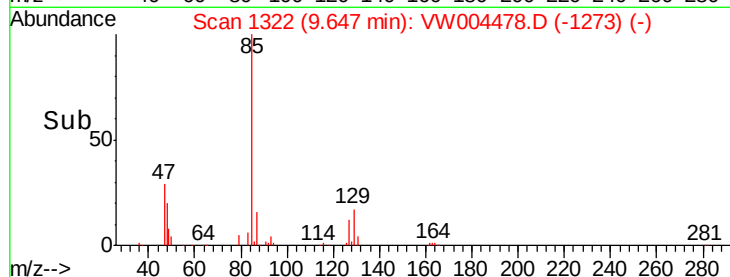
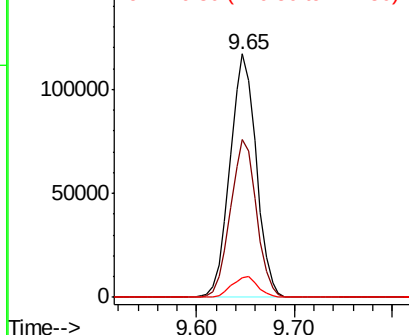
Tot Ion:	83	Resp:	217522
Ion Ratio	Lower	Upper	
83	100		
85	64.8	50.7	76.1
127	7.8	6.5	9.7

Manual Integrations
APPROVED

apatel
8/7/2018 4:48:58 PM



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



#48

Methyl methacrylate

Concen: 21.46 ug/l

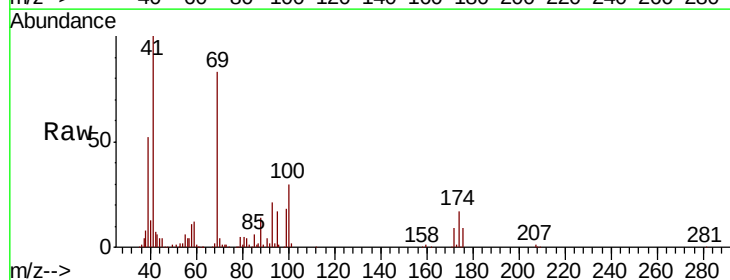
RT: 9.44 min Scan# 1288

Delta R.T. 0.00 min

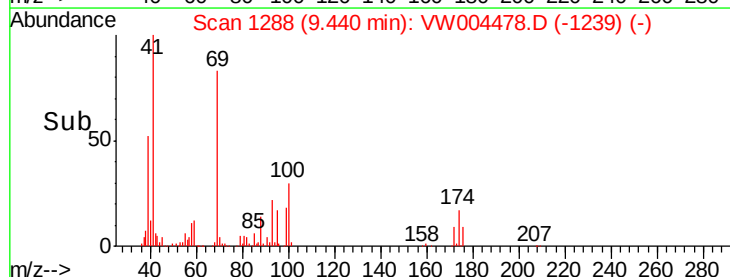
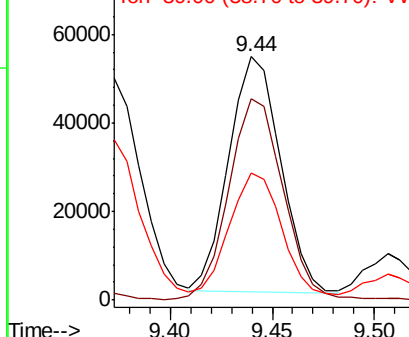
Lab File: VW004478.D

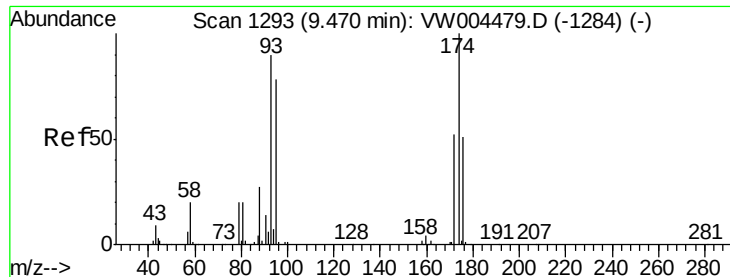
Acq: 06 Aug 2018 19:10

Tgt Ion:	41	Resp:	93655
Ion Ratio	Lower	Upper	
41	100		
69	90.3	73.2	109.8
39	51.9	40.6	60.8



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





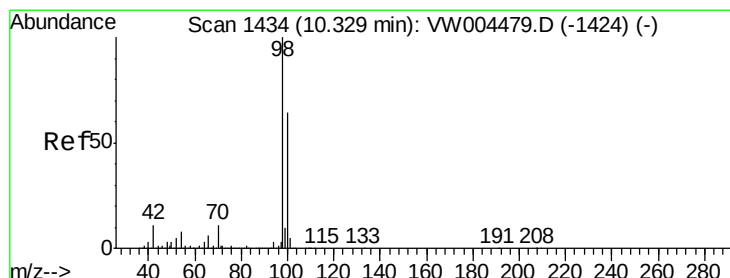
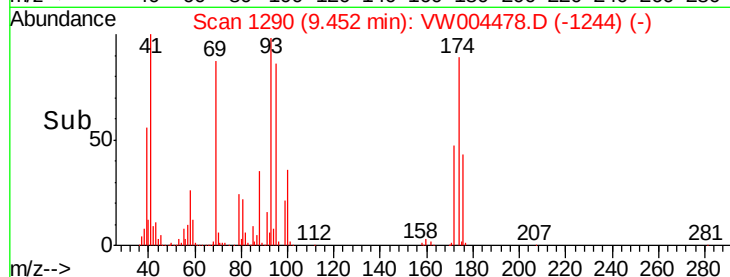
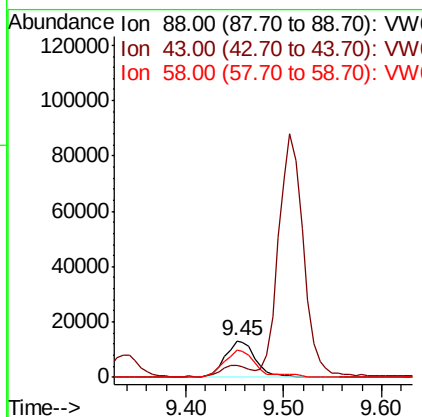
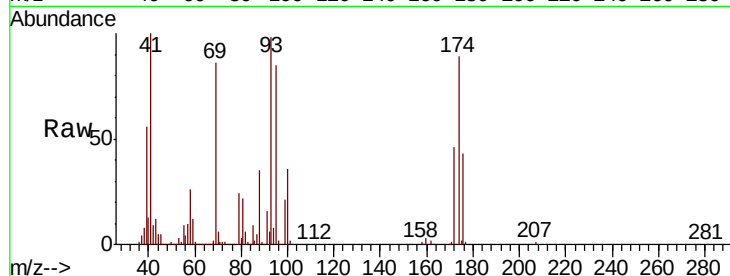
#49
1,4-Dioxane
Concen: 447.56 ug/l
RT: 9.45 min Scan# 1290
Delta R.T. -0.02 min
Lab File: VW004478.D
Acq: 06 Aug 2018 19:10

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
88	100		
43	29.9	0.0	0.0#
58	75.0	63.5	95.3

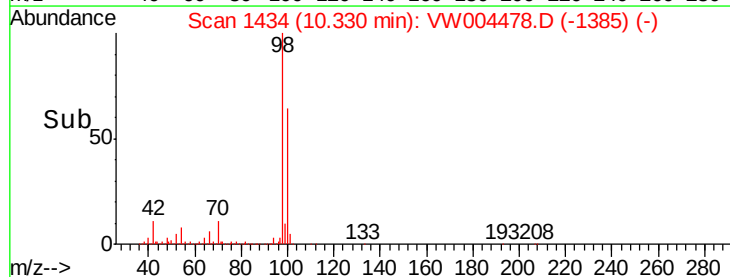
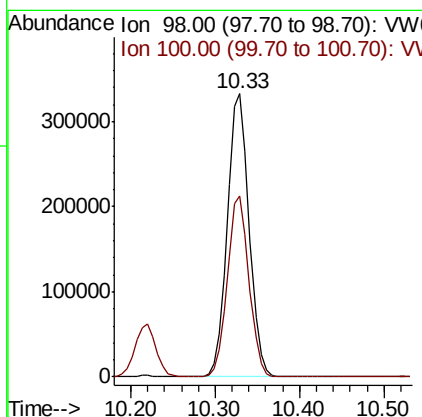
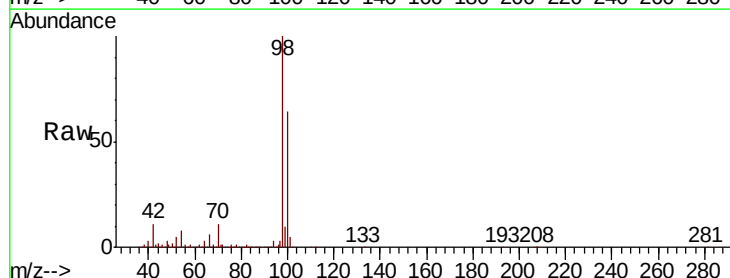
Manual Integrations
APPROVED

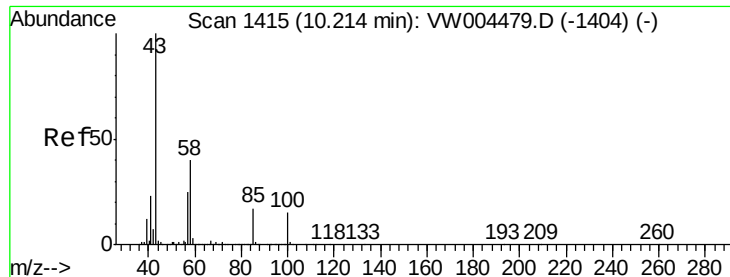
apatel
8/7/2018 4:48:58 PM



#50
Toluene-d8
Concen: 20.33 ug/l
RT: 10.33 min Scan# 1434
Delta R.T. 0.00 min
Lab File: VW004478.D
Acq: 06 Aug 2018 19:10

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.4	51.4	77.2





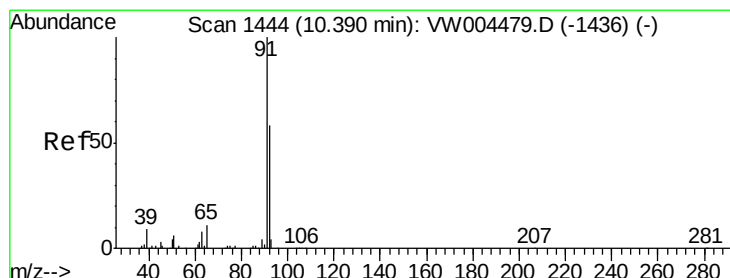
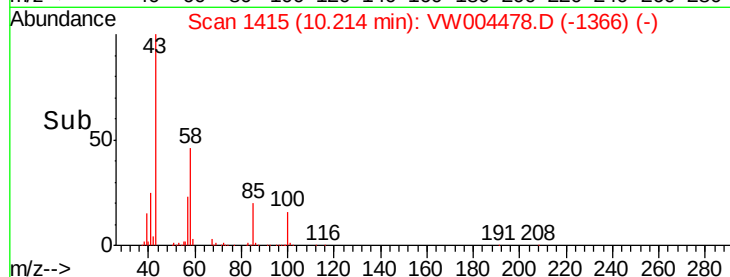
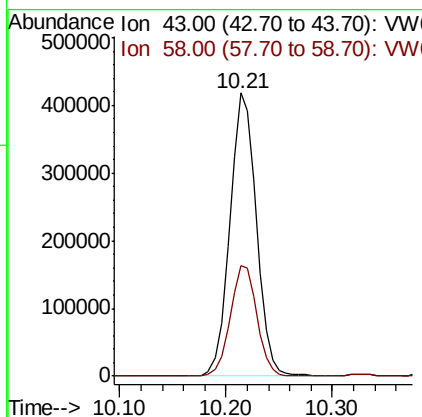
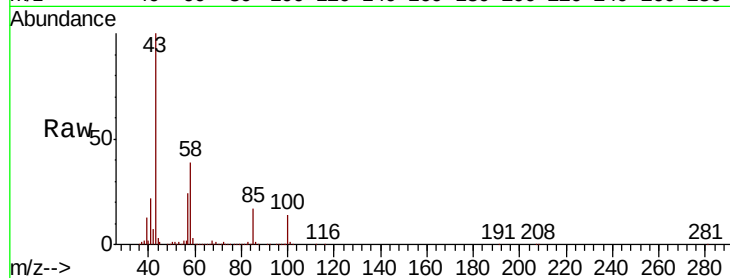
#51
 4-Methyl-2-Pentanone
 Concen: 145.28 ug/l
 RT: 10.21 min Scan# 1415
 Delta R.T. 0.00 min
 Lab File: VW004478.D
 Acq: 06 Aug 2018 19:10

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC020

Tot Ion	43	Resp	730767
Ion Ratio	100	Lower	Upper
43	100		
58	39.5	31.9	47.9

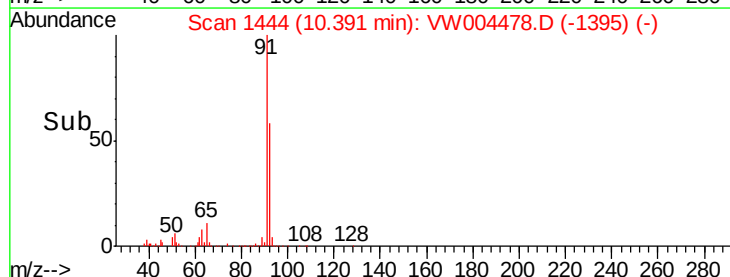
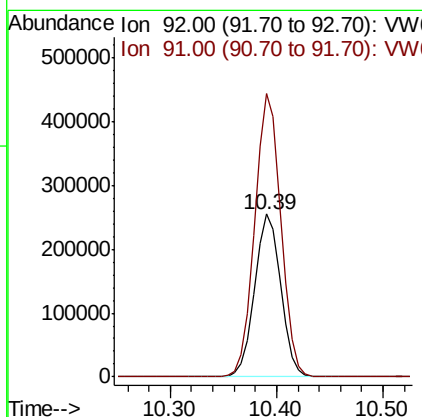
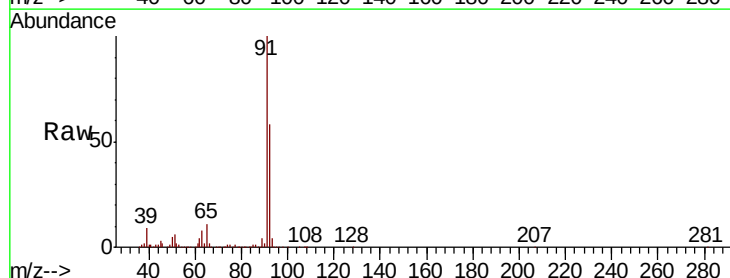
Manual Integrations
 APPROVED

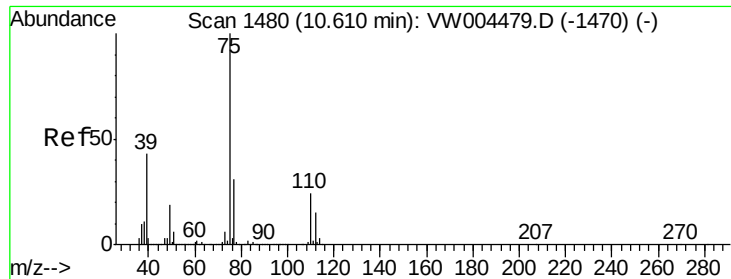
apatel
 8/7/2018 4:48:58 PM



#52
 Toluene
 Concen: 21.48 ug/l
 RT: 10.39 min Scan# 1444
 Delta R.T. 0.00 min
 Lab File: VW004478.D
 Acq: 06 Aug 2018 19:10

Tgt Ion	92	Resp	439206
Ion Ratio	100	Lower	Upper
92	100		
91	174.1	137.9	206.9





#53

t-1,3-Dichloropropene

Concen: 20.93 ug/l

RT: 10.61 min Scan# 1480

Delta R.T. 0.00 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

Instrument :

MSVOA_W

ClientSampled :

VSTDIC020

Tot Ion: 75 Resp: 218743

Ion Ratio Lower Upper

75 100

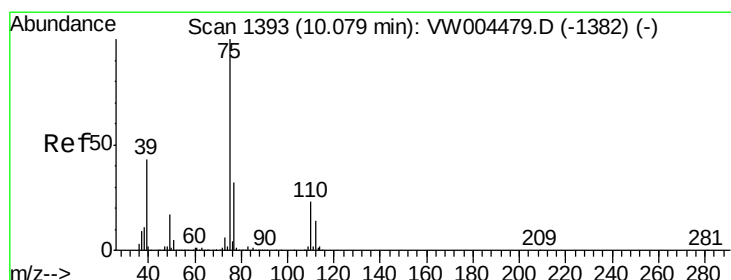
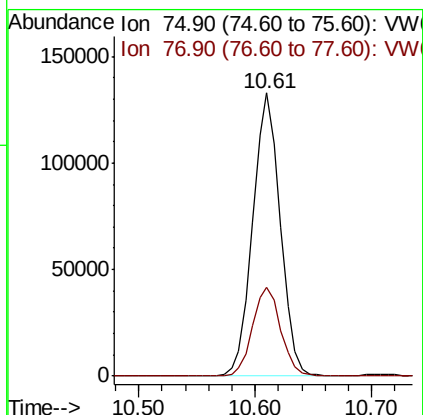
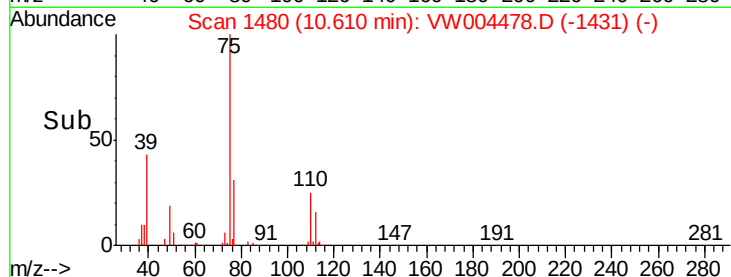
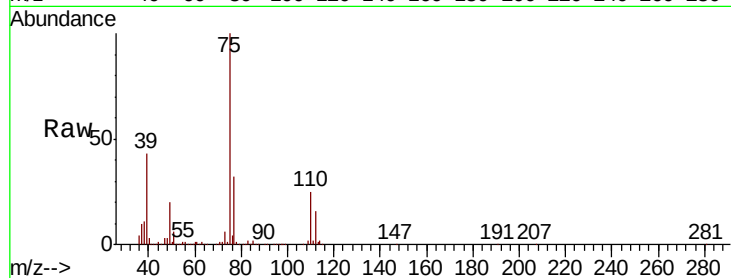
77 31.4 25.1 37.7

Manual Integrations

APPROVED

apatel

8/7/2018 4:48:58 PM



#54

cis-1,3-Dichloropropene

Concen: 21.00 ug/l

RT: 10.07 min Scan# 1392

Delta R.T. -0.01 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

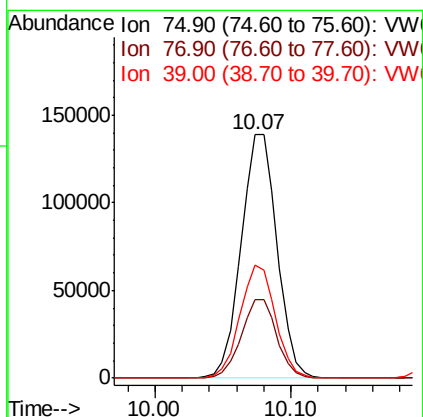
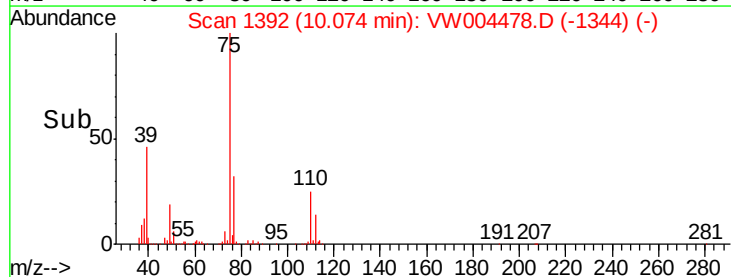
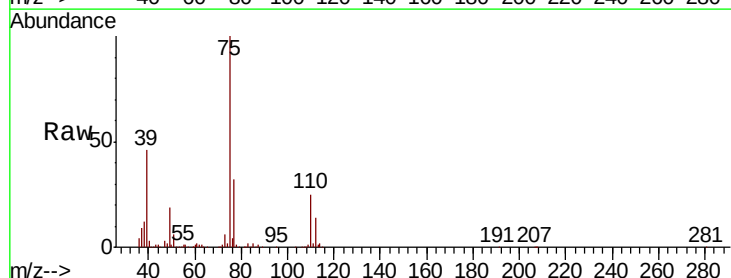
Tgt Ion: 75 Resp: 256037

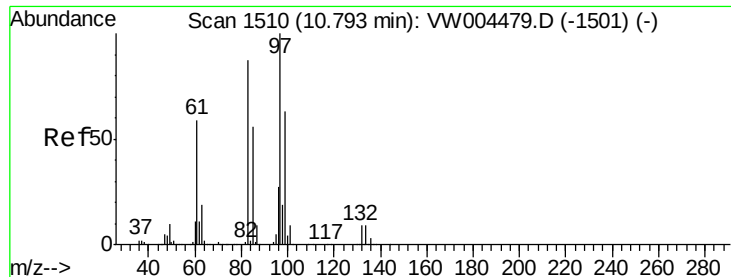
Ion Ratio Lower Upper

75 100

77 32.2 25.3 37.9

39 46.2 34.5 51.7





#55

1,1,2-Trichloroethane

Concen: 23.26 ug/l

RT: 10.79 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

Instrument :

MSVOA_W

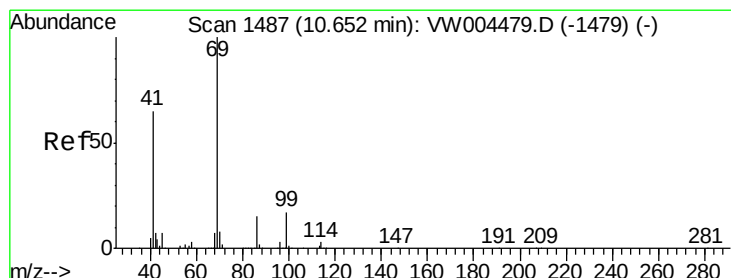
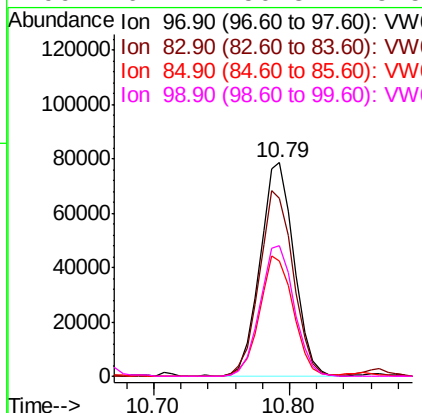
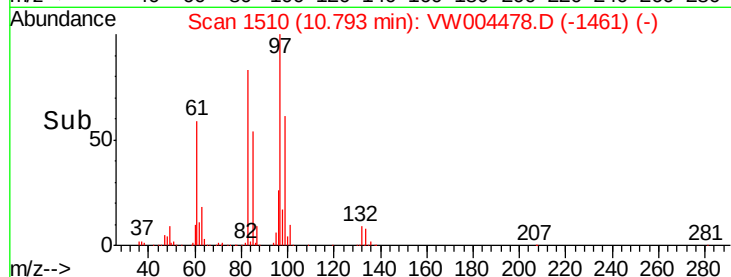
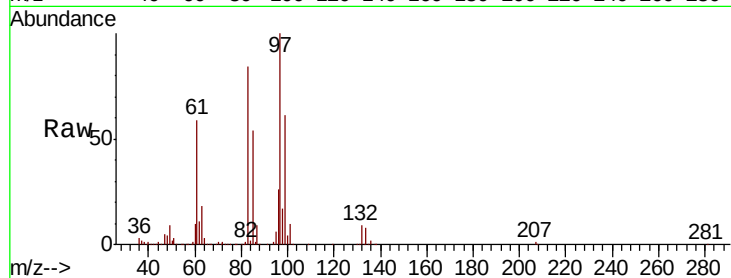
ClientSampleId :

VSTDIC020

Tot Ion:	97	Resp:	137677
Ion	Ratio	Lower	Upper
97	100		
83	83.5	69.8	104.8
85	53.9	45.1	67.7
99	61.1	50.3	75.5

Manual Integrations
APPROVED

apatel
8/7/2018 4:48:58 PM



#56

Ethyl methacrylate

Concen: 21.50 ug/l

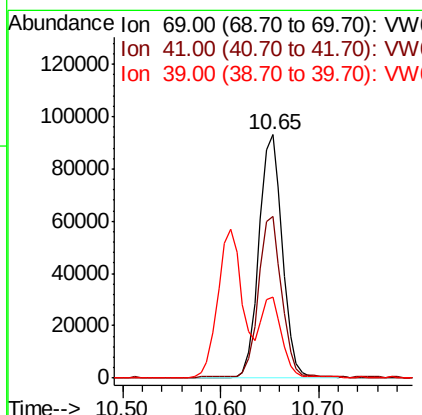
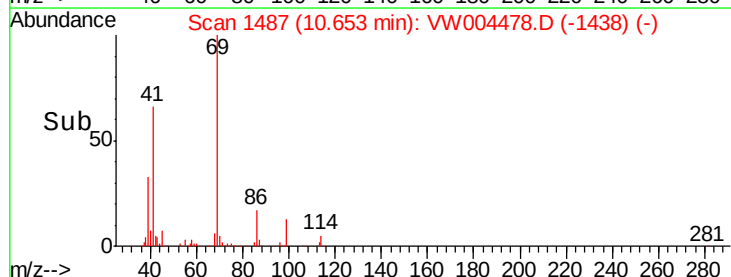
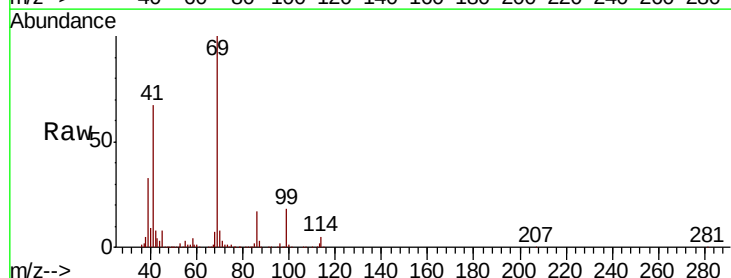
RT: 10.65 min Scan# 1487

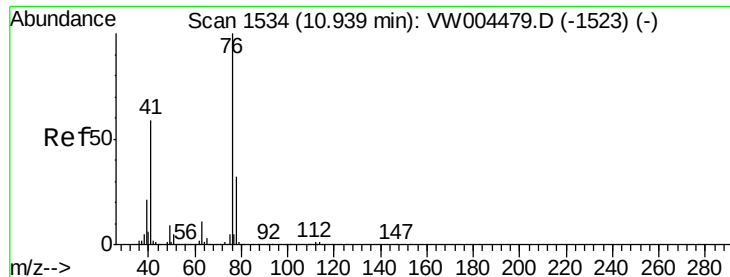
Delta R.T. 0.00 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

Tgt Ion:	69	Resp:	154654
Ion	Ratio	Lower	Upper
69	100		
41	65.0	52.4	78.6
39	29.6	22.7	34.1





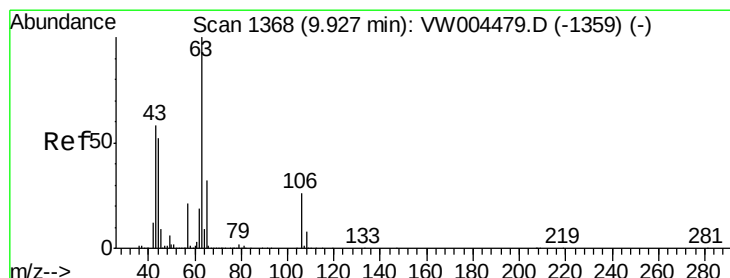
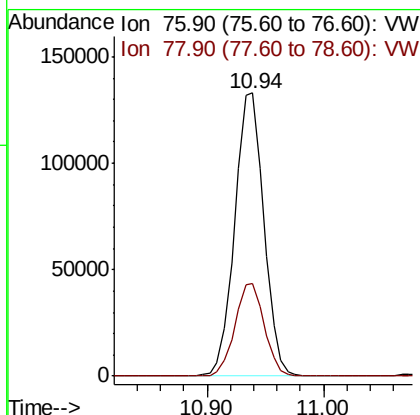
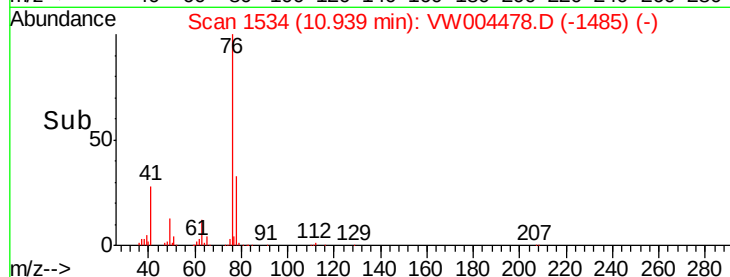
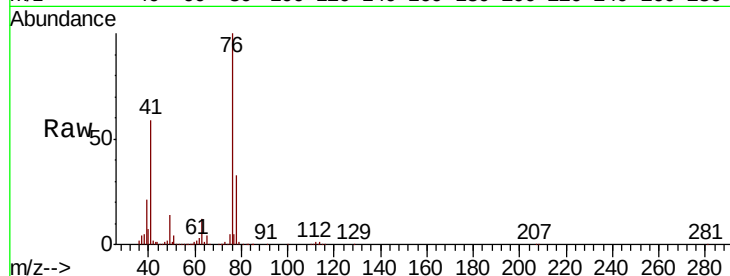
#57
 1,3-Dichloropropane
 Concen: 22.98 ug/l
 RT: 10.94 min Scan# 1534
 Delta R.T. 0.00 min
 Lab File: VW004478.D
 Acq: 06 Aug 2018 19:10

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
76	100		
78	33.0	25.7	38.5

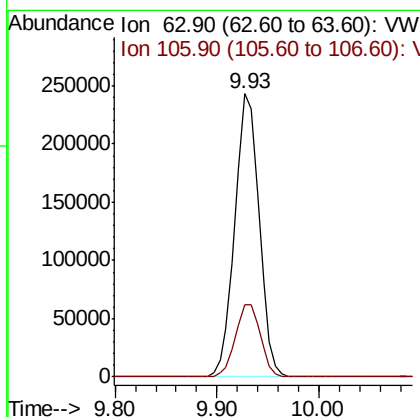
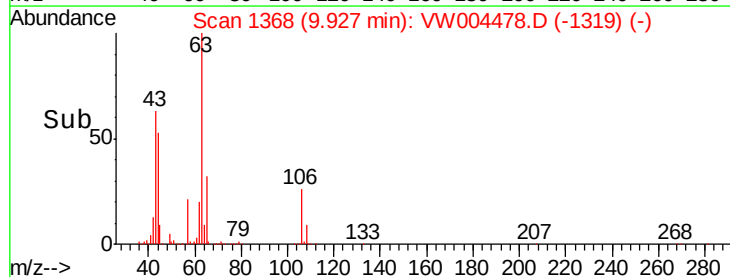
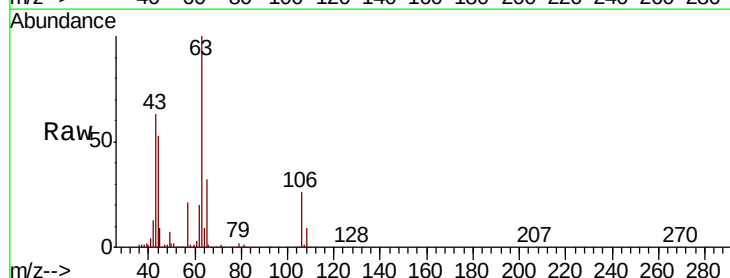
Manual Integrations
 APPROVED

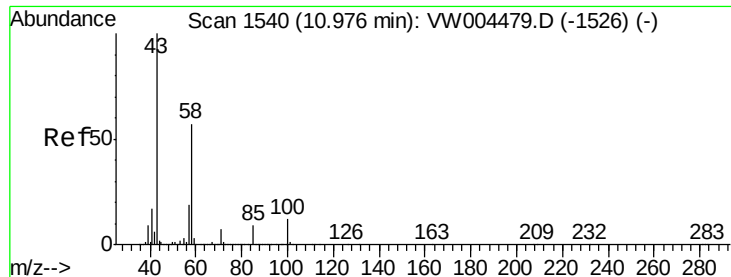
apatel
 8/7/2018 4:48:58 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 121.53 ug/l
 RT: 9.93 min Scan# 1368
 Delta R.T. 0.00 min
 Lab File: VW004478.D
 Acq: 06 Aug 2018 19:10

Tgt Ion	Ratio	Lower	Upper
63	100		
106	26.4	21.3	31.9





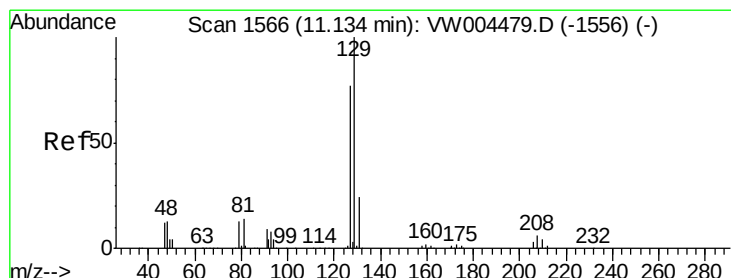
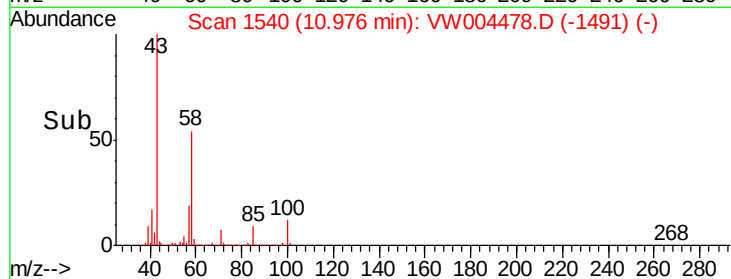
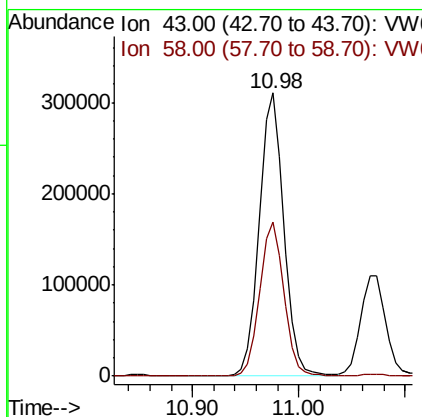
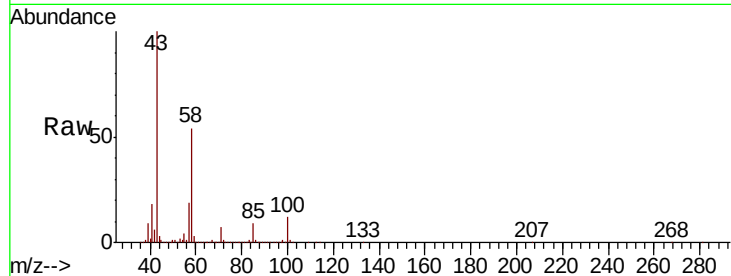
#59
2-Hexanone
Concen: 146.07 ug/l
RT: 10.98 min Scan# 1540
Delta R.T. 0.00 min
Lab File: VW004478.D
Acq: 06 Aug 2018 19:10

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
58	53.8	27.9	83.6

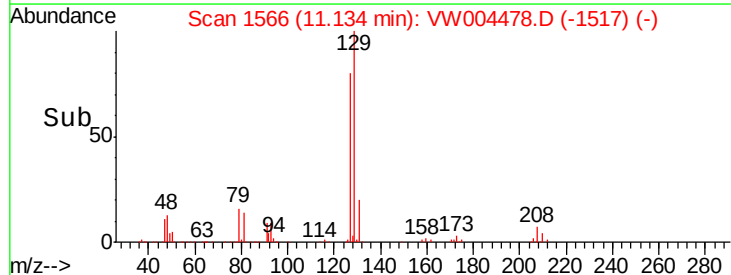
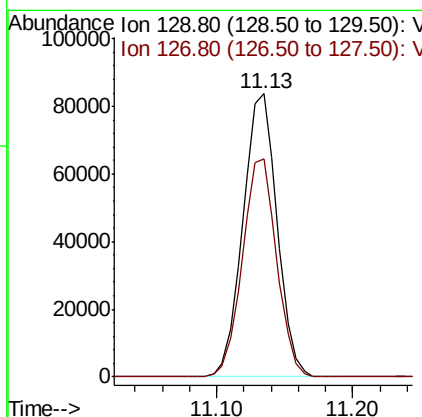
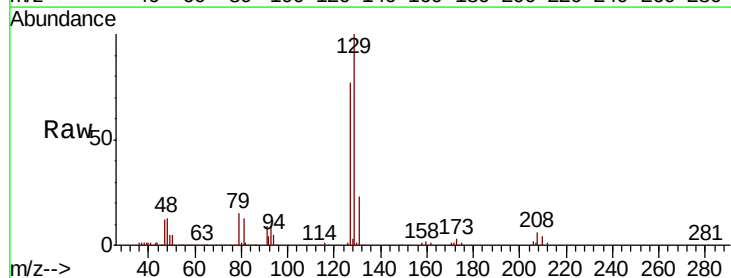
Manual Integrations
APPROVED

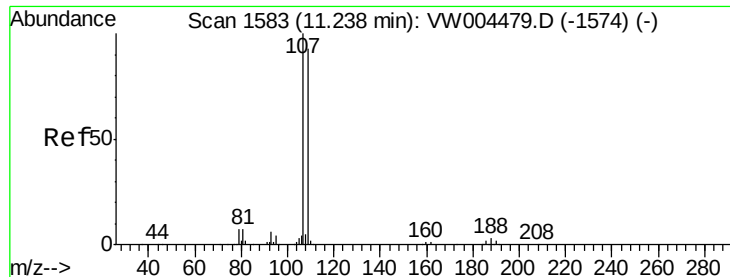
apatel
8/7/2018 4:48:58 PM



#60
Dibromochloromethane
Concen: 20.93 ug/l
RT: 11.13 min Scan# 1566
Delta R.T. 0.00 min
Lab File: VW004478.D
Acq: 06 Aug 2018 19:10

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.1	38.6	115.8





#61

1,2-Dibromoethane

Concen: 22.73 ug/l

RT: 11.24 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

Tot Ion: 107 Resp: 128546

Ion Ratio Lower Upper

107 100

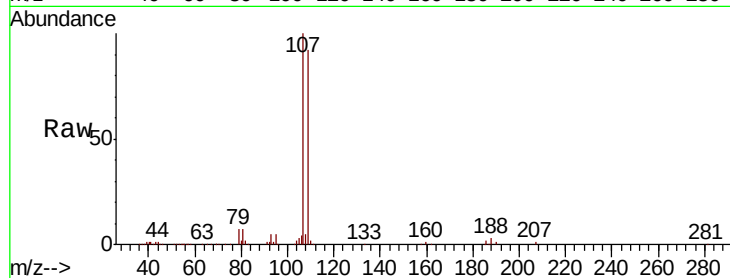
109 94.4 75.7 113.5

Manual Integrations

APPROVED

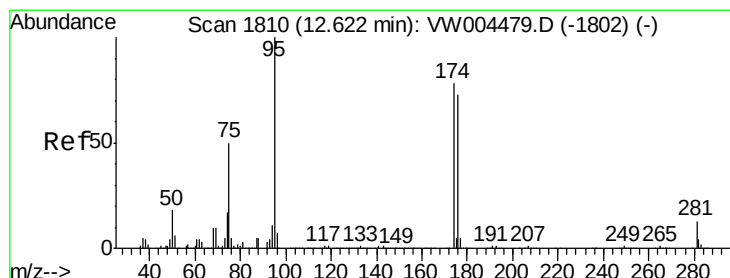
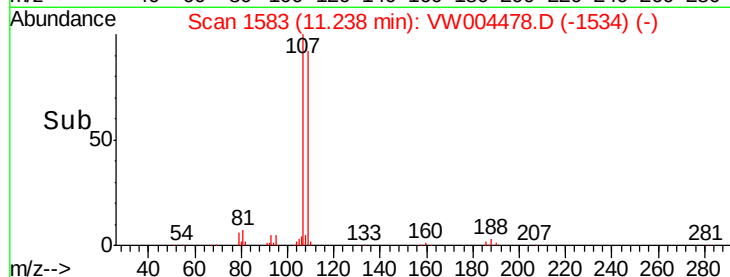
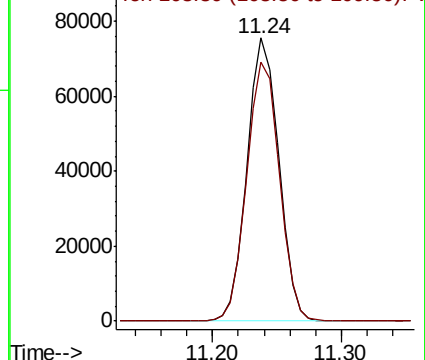
apatel

8/7/2018 4:48:58 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 20.40 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. 0.01 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

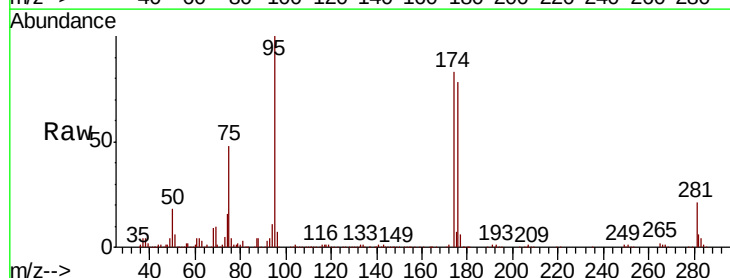
Tgt Ion: 95 Resp: 208325

Ion Ratio Lower Upper

95 100

174 81.1 0.0 160.4

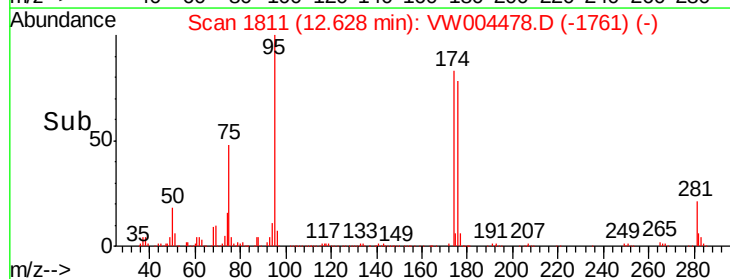
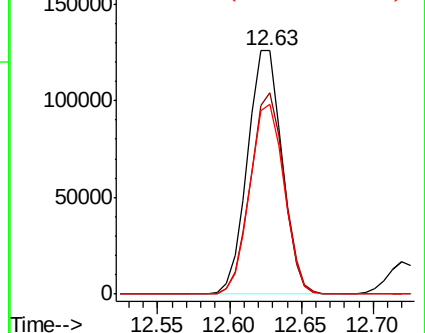
176 77.6 0.0 153.2

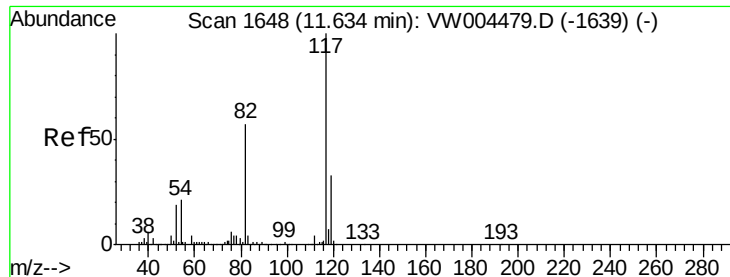


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





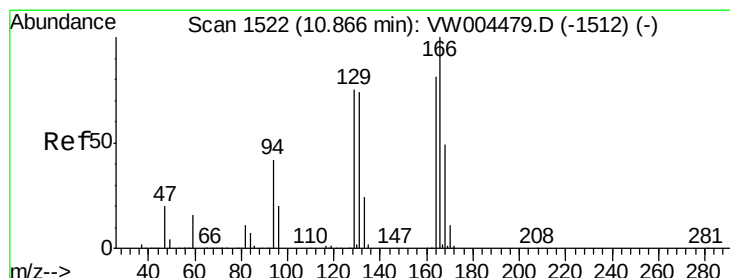
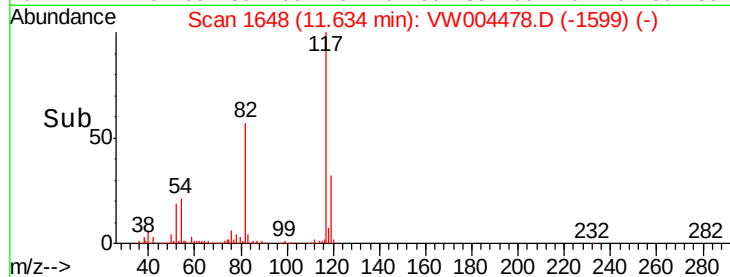
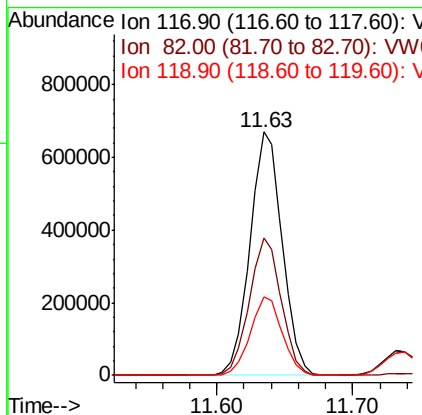
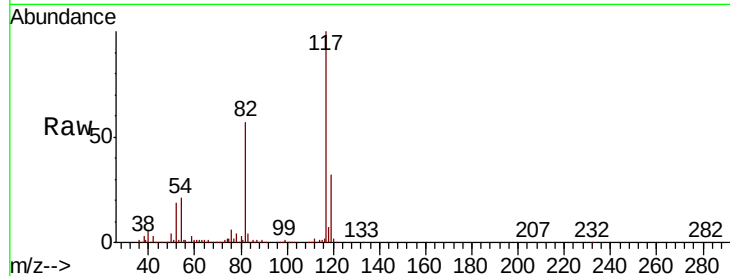
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.63 min Scan# 1648
Delta R.T. 0.00 min
Lab File: VW004478.D
Acq: 06 Aug 2018 19:10

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.6	45.3	67.9
119	32.2	26.2	39.4

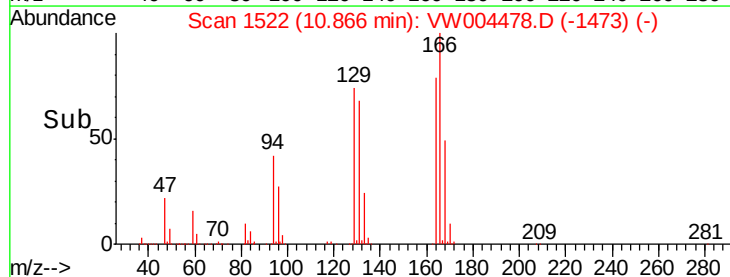
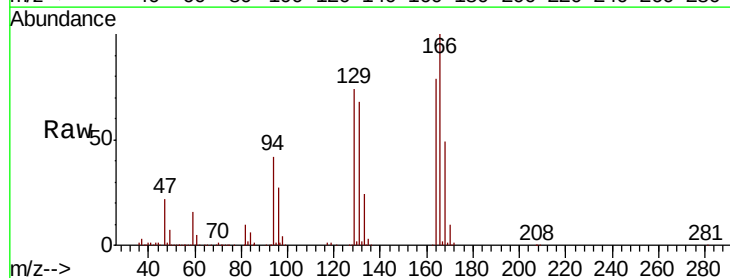
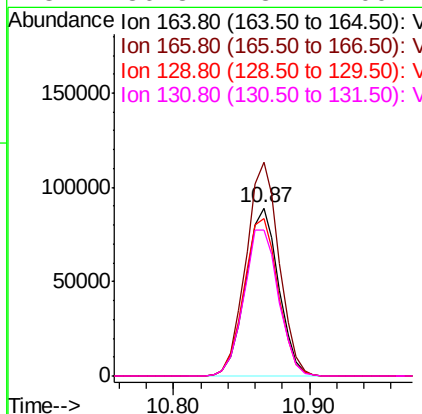
Manual Integrations
APPROVED

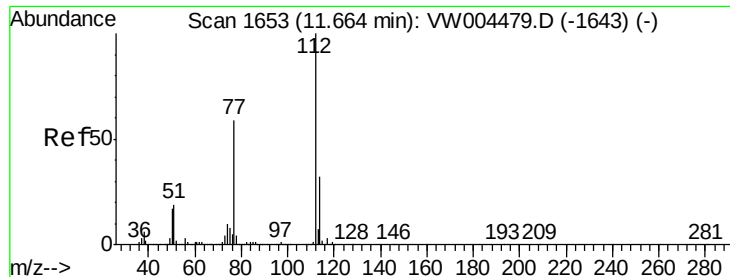
apatel
8/7/2018 4:48:58 PM



#64
Tetrachloroethene
Concen: 18.73 ug/l
RT: 10.87 min Scan# 1522
Delta R.T. 0.00 min
Lab File: VW004478.D
Acq: 06 Aug 2018 19:10

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.9	98.4	147.6
129	93.3	73.6	110.4
131	86.8	73.1	109.7





#65

Chlorobenzene

Concen: 20.73 ug/l

RT: 11.66 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

Tot Ion:112 Resp: 485667

Ion Ratio Lower Upper

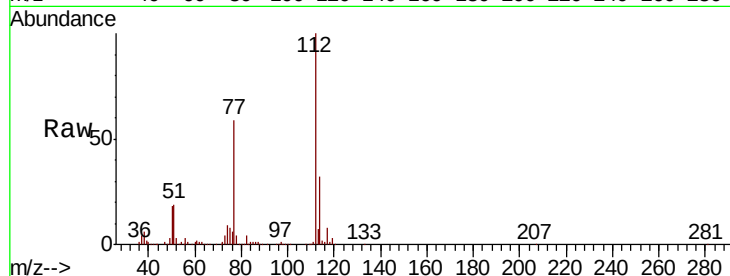
112 100

114 32.2 26.0 39.0

Manual Integrations
APPROVED

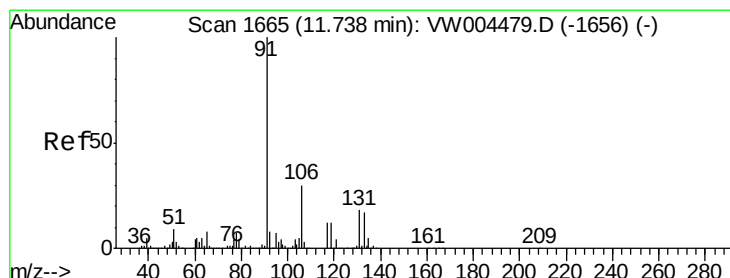
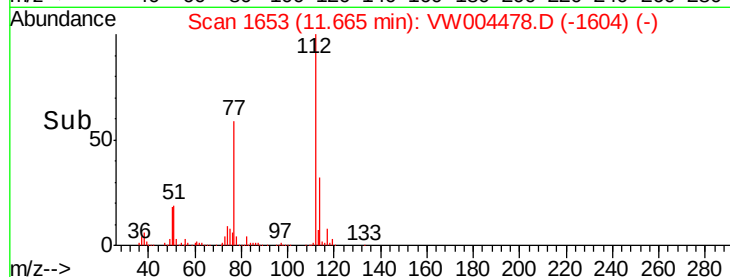
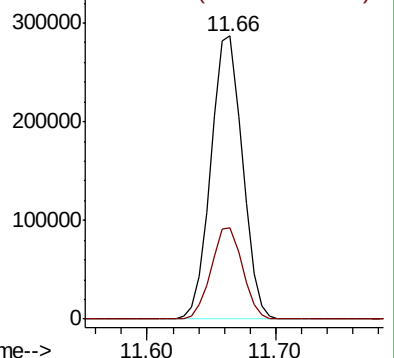
apatel

8/7/2018 4:48:58 PM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 19.68 ug/l

RT: 11.73 min Scan# 1664

Delta R.T. -0.01 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

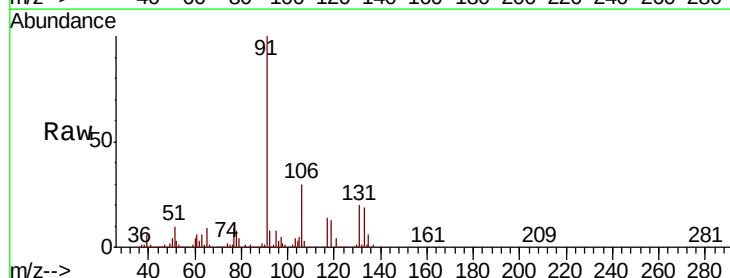
Tgt Ion:131 Resp: 162798

Ion Ratio Lower Upper

131 100

133 94.7 48.1 144.4

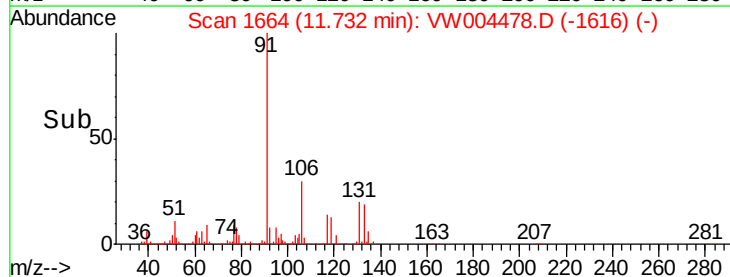
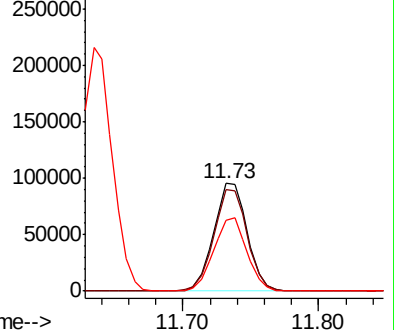
119 67.4 33.9 101.7

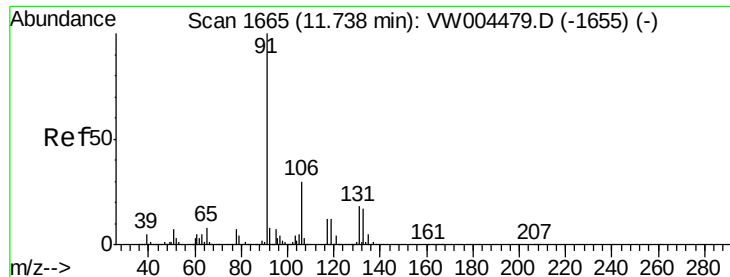


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





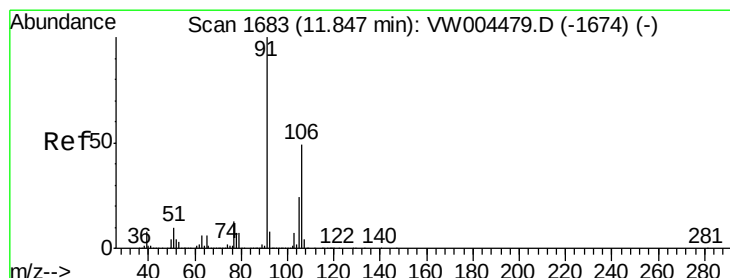
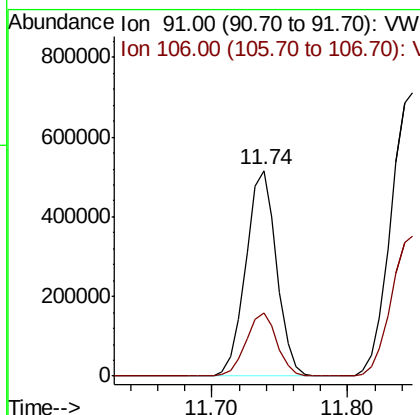
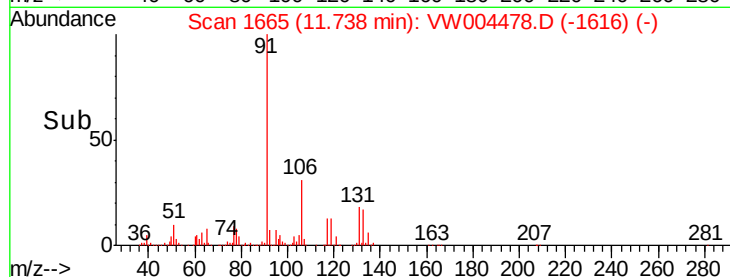
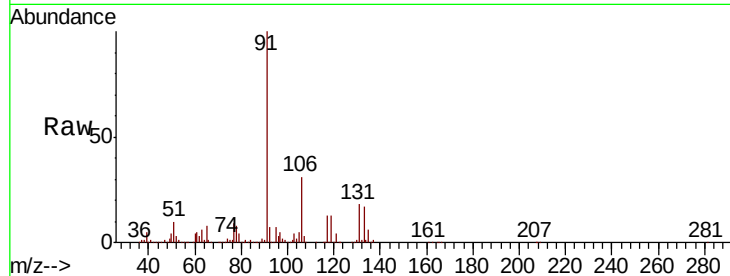
#67
Ethyl Benzene
Concen: 19.93 ug/l
RT: 11.74 min Scan# 1665
Delta R.T. 0.00 min
Lab File: VW004478.D
Acq: 06 Aug 2018 19:10

Instrument :
MSVOA_W
ClientSampled :
VSTDIC020

Tot Ion: 91 Resp: 817243
Ion Ratio Lower Upper
91 100
106 30.7 24.2 36.2

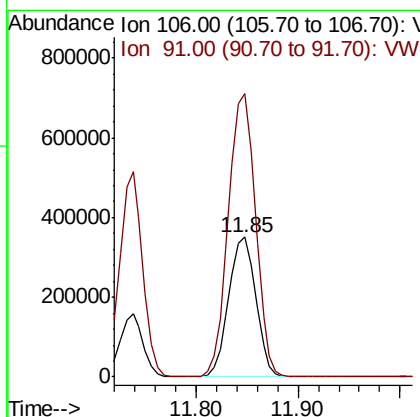
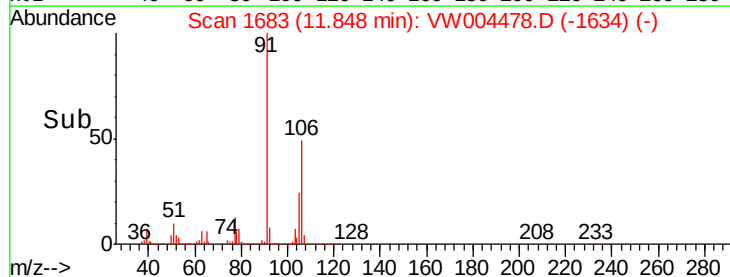
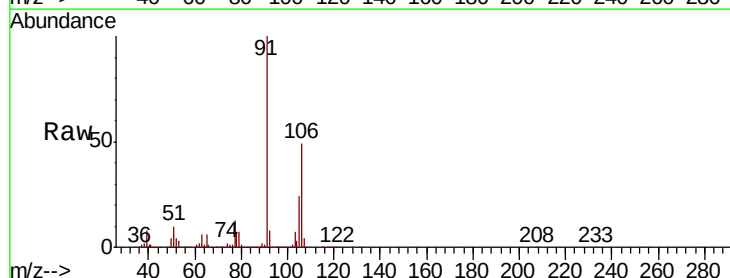
Manual Integrations
APPROVED

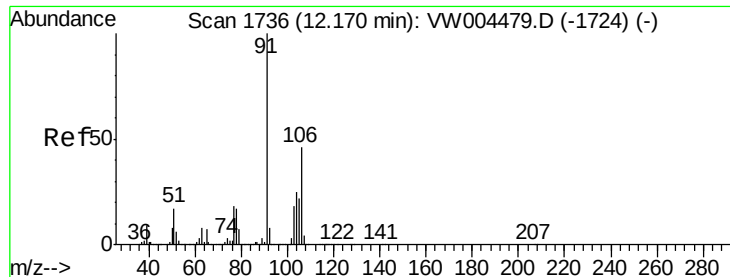
apatel
8/7/2018 4:48:58 PM



#68
m/p-Xylenes
Concen: 41.18 ug/l
RT: 11.85 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW004478.D
Acq: 06 Aug 2018 19:10

Tgt Ion: 106 Resp: 647999
Ion Ratio Lower Upper
106 100
91 202.7 162.8 244.2





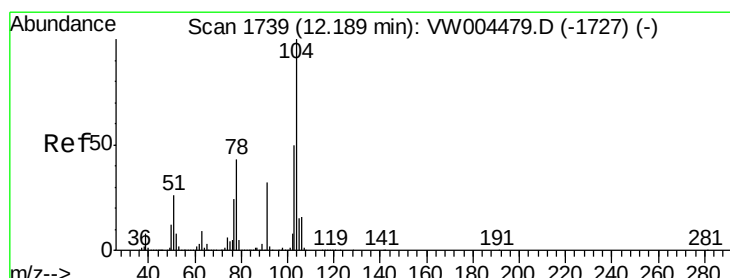
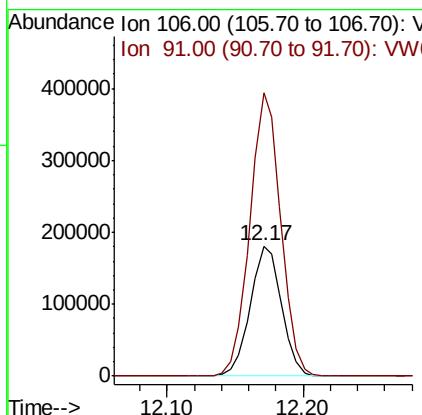
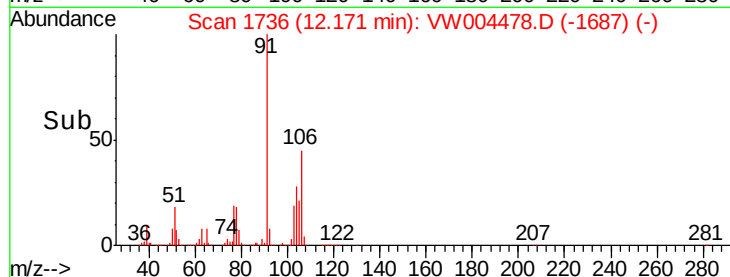
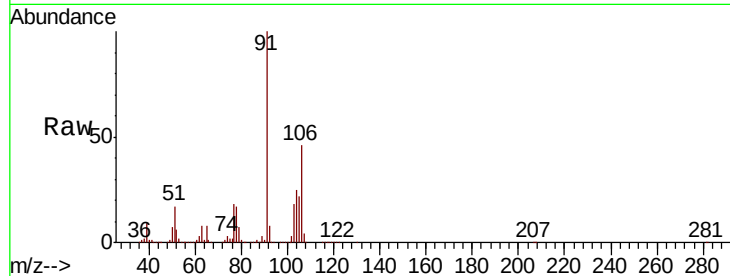
#69
o-Xylene
Concen: 20.07 ug/l
RT: 12.17 min Scan# 1736
Delta R.T. 0.00 min
Lab File: VW004478.D
Acq: 06 Aug 2018 19:10

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
106	100		
91	215.1	106.7	320.2

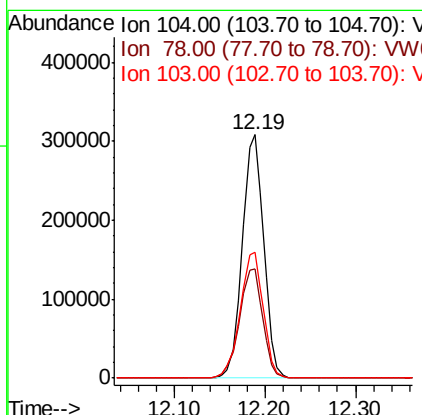
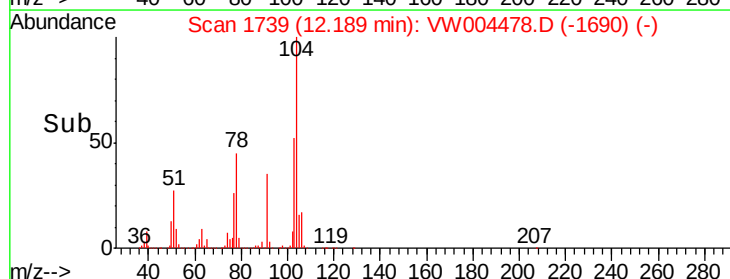
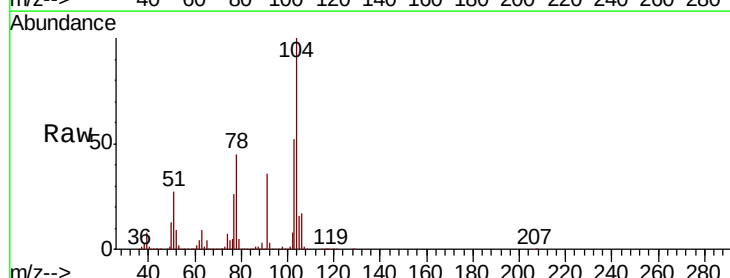
Manual Integrations
APPROVED

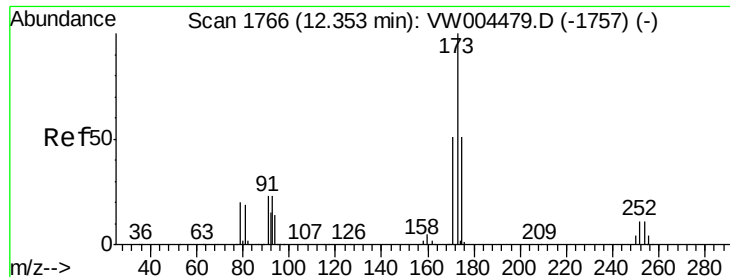
apatel
8/7/2018 4:48:58 PM



#70
Styrene
Concen: 20.42 ug/l
RT: 12.19 min Scan# 1739
Delta R.T. 0.00 min
Lab File: VW004478.D
Acq: 06 Aug 2018 19:10

Tgt Ion	Ratio	Lower	Upper
104	100		
78	48.9	39.0	58.4
103	55.7	44.2	66.2





#71

Bromoform

Concen: 19.36 ug/l

RT: 12.35 min Scan# 1766

Delta R.T. 0.00 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

Instrument :

MSVOA_W

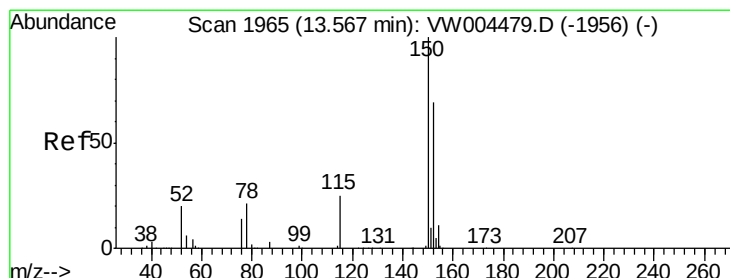
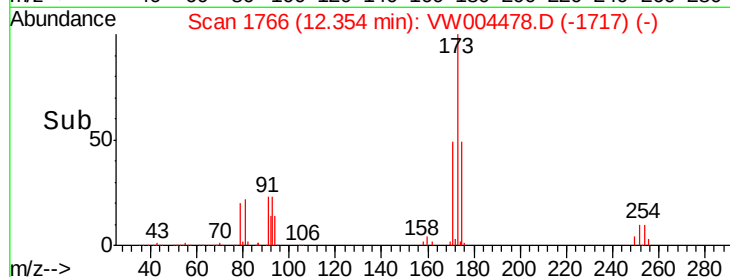
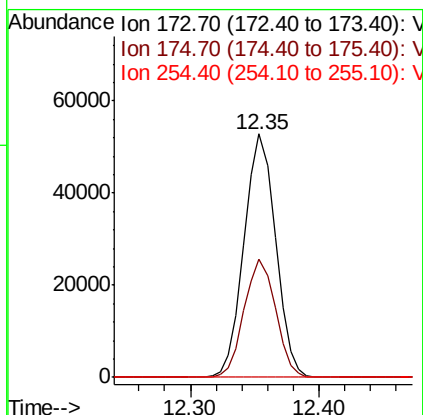
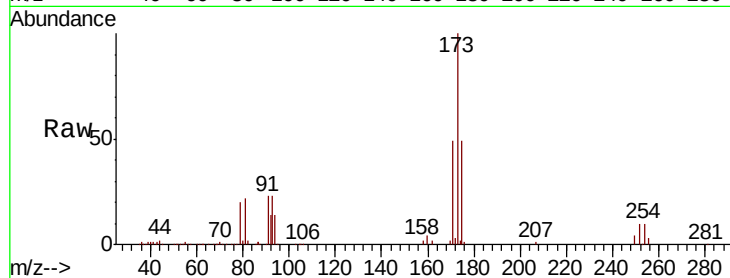
ClientSampleId :

VSTDIC020

Tot Ion:	173	Resp:	89534
Ion Ratio	Lower	Upper	
173	100		
175	48.4	24.5	73.5
254	0.1	0.2	0.2#

Manual Integrations
APPROVED

apatel
8/7/2018 4:48:58 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

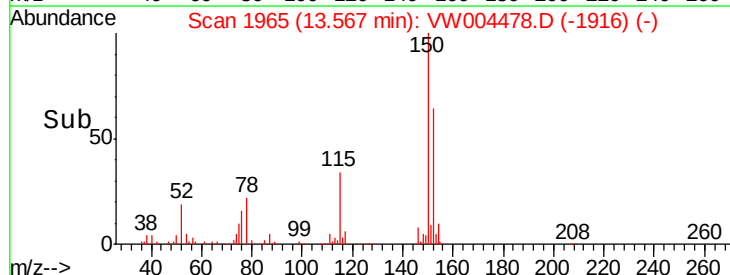
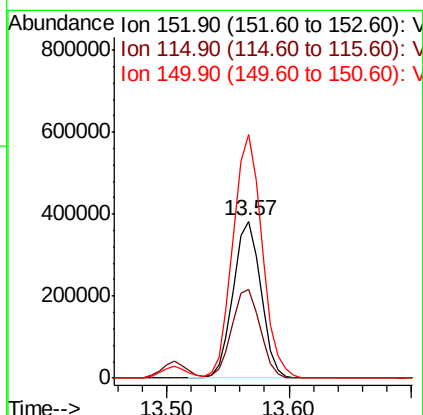
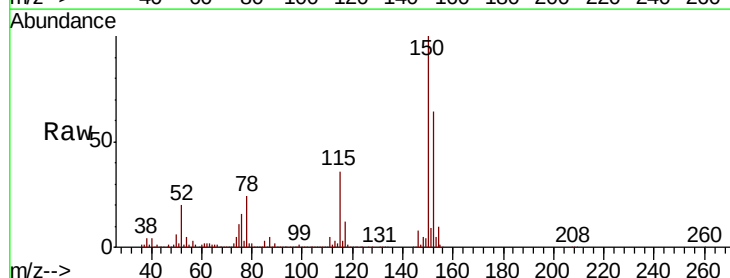
RT: 13.57 min Scan# 1965

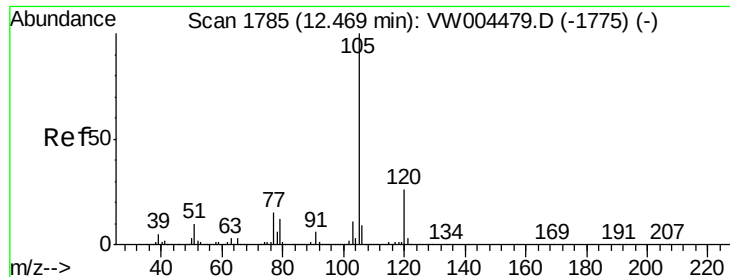
Delta R.T. 0.00 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

Tgt Ion:	152	Resp:	598480
Ion Ratio	Lower	Upper	
152	100		
115	57.9	29.1	87.3
150	163.3	0.0	349.6





#73

Isopropylbenzene

Concen: 19.38 ug/l

RT: 12.47 min Scan# 1785

Delta R.T. 0.00 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 809060

Ion Ratio Lower Upper

105 100

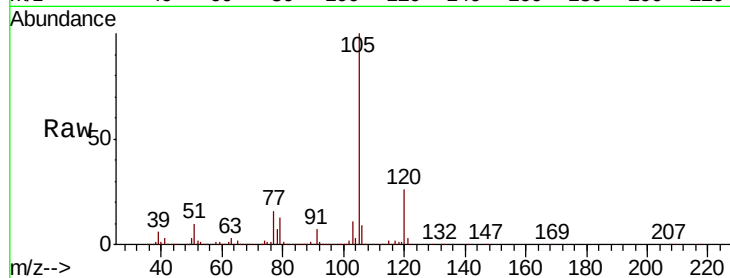
120 26.1 13.2 39.6

Manual Integrations

APPROVED

apatel

8/7/2018 4:48:58 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

600000

500000

400000

300000

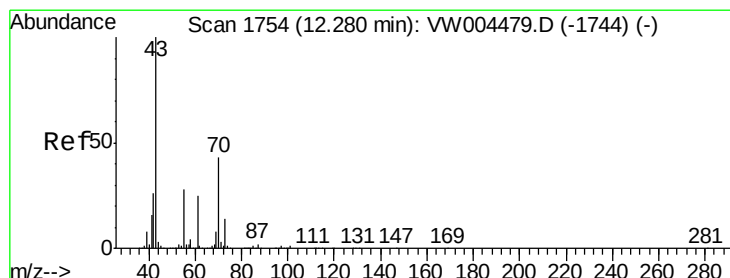
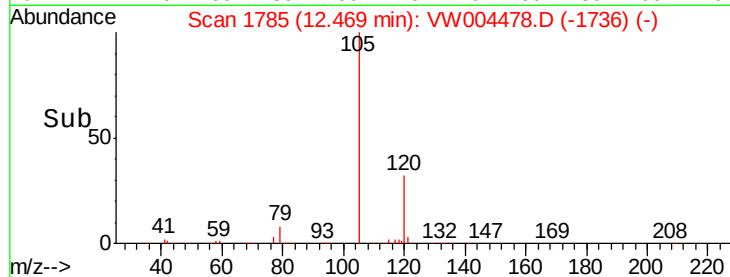
200000

100000

0

12.30 12.40 12.50 12.60

Time-->



#74

N-ethyl acetate

Concen: 21.19 ug/l

RT: 12.28 min Scan# 1754

Delta R.T. 0.00 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

Tgt Ion: 43 Resp: 194326

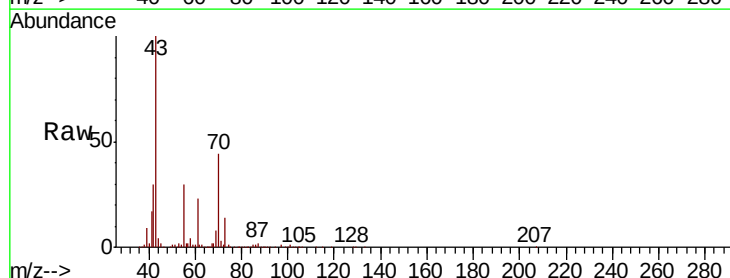
Ion Ratio Lower Upper

43 100

70 43.0 35.3 52.9

55 30.3 22.9 34.3

61 23.4 19.7 29.5



Abundance Ion 43.00 (42.70 to 43.70): VV

Ion 70.00 (69.70 to 70.70): VV

Ion 55.00 (54.70 to 55.70): VV

Ion 61.00 (60.70 to 61.70): VV

200000

150000

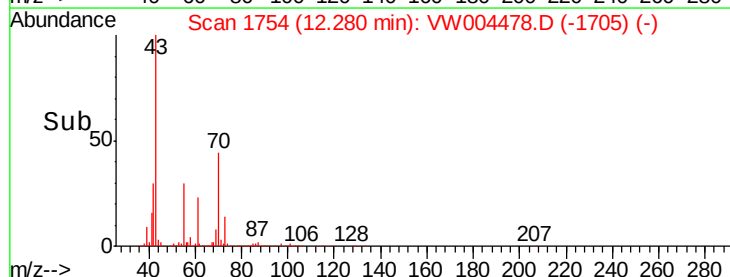
100000

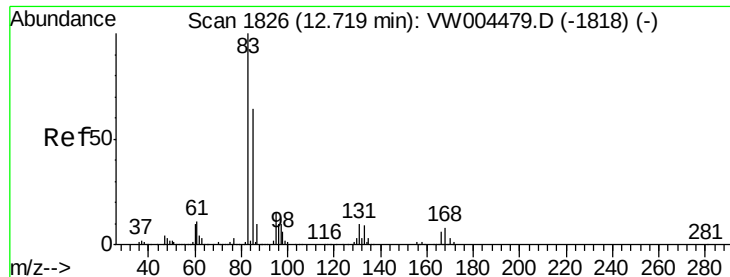
50000

0

12.20 12.30 12.40

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 22.90 ug/l

RT: 12.72 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

Instrument :

MSVOA_W

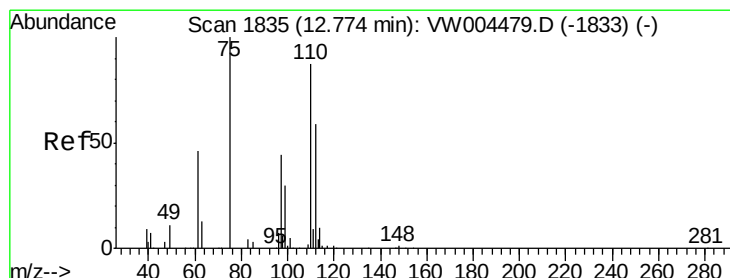
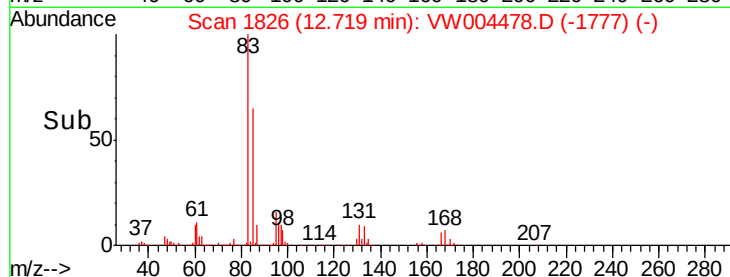
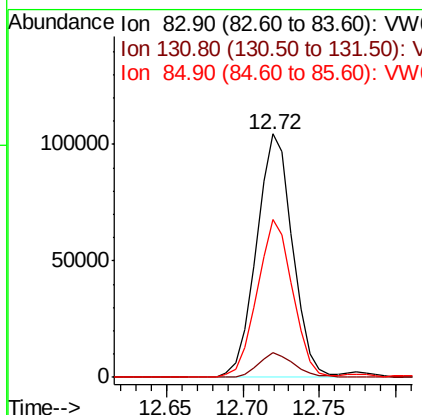
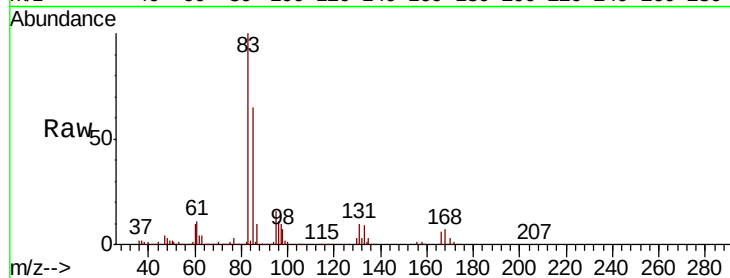
ClientSampled :

VSTDIC020

Tot Ion:	83	Resp:	171378
Ion Ratio	Lower	Upper	
83	100		
131	10.1	5.0	15.0
85	63.9	31.8	95.4

Manual Integrations
APPROVED

apatel
8/7/2018 4:48:58 PM



#76

1,2,3-Trichloropropane

Concen: 22.19 ug/l m

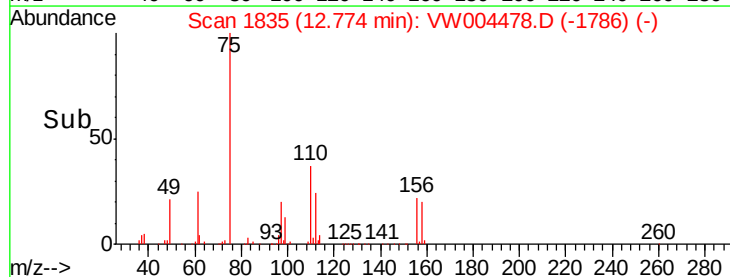
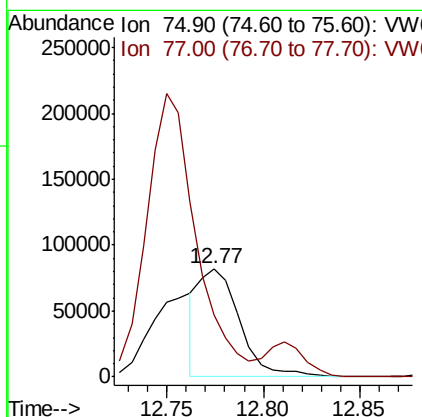
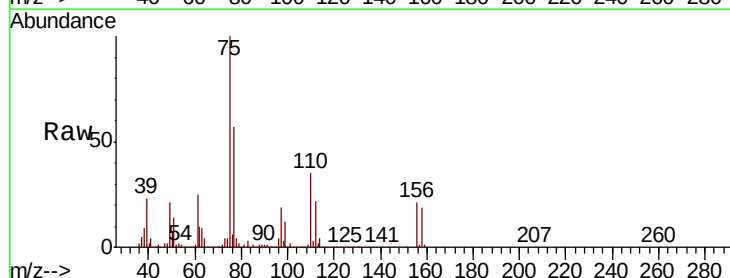
RT: 12.77 min Scan# 1835

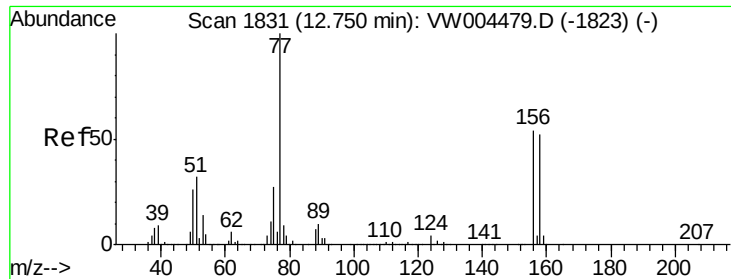
Delta R.T. 0.00 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

Tgt Ion:	75	Resp:	120011
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





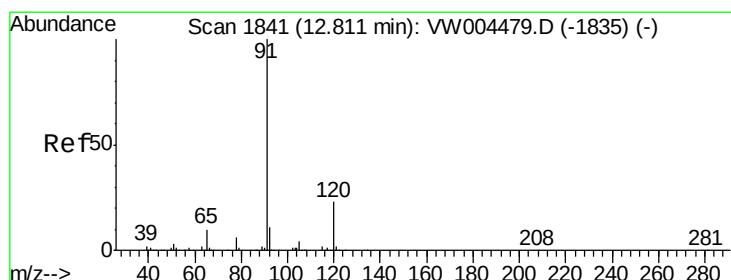
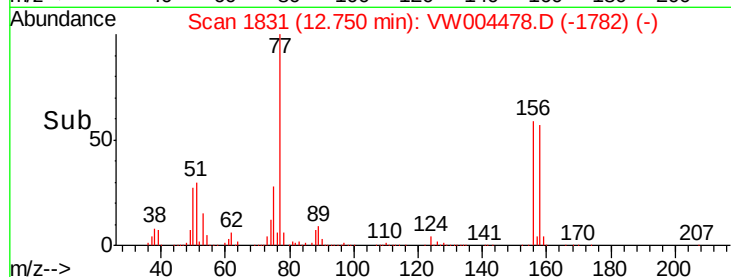
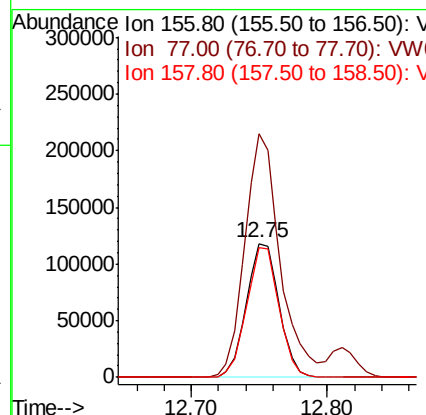
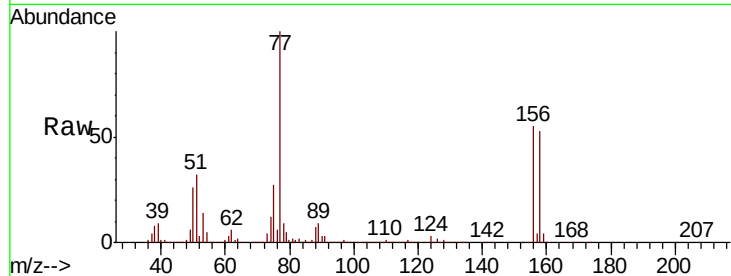
#77
Bromobenzene
Concen: 19.71 ug/l
RT: 12.75 min Scan# 1831
Delta R.T. 0.00 min
Lab File: VW004478.D
Acq: 06 Aug 2018 19:10

Instrument :
MSVOA_W
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
156	100		
77	195.4	98.7	296.1
158	96.1	48.7	146.1

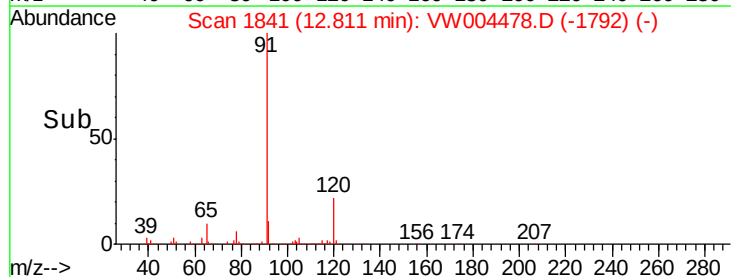
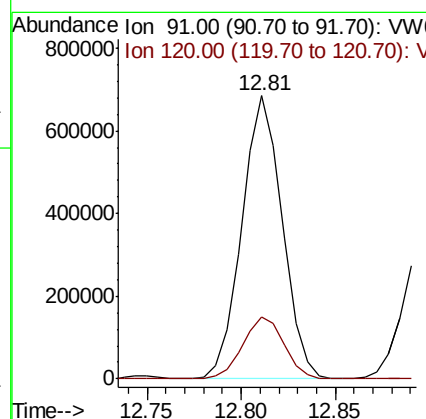
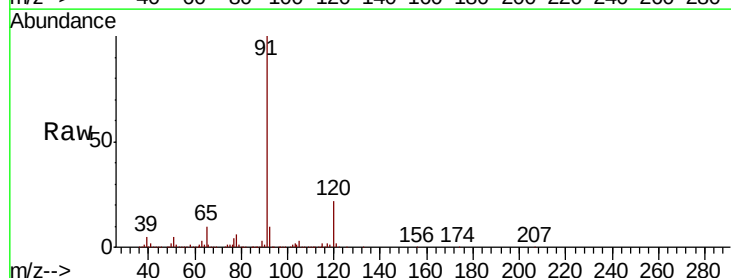
Manual Integrations
APPROVED

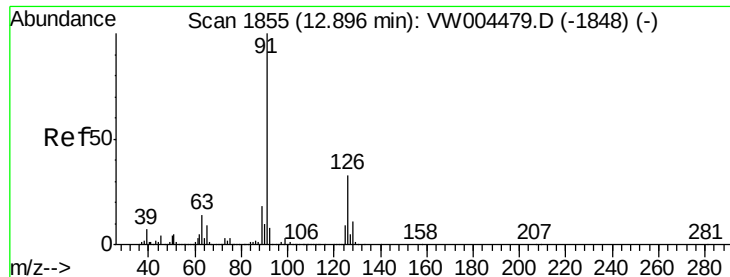
apatel
8/7/2018 4:48:58 PM



#78
n-propylbenzene
Concen: 20.02 ug/l
RT: 12.81 min Scan# 1841
Delta R.T. 0.00 min
Lab File: VW004478.D
Acq: 06 Aug 2018 19:10

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.3	33.9





#79

2-Chlorotoluene

Concen: 20.08 ug/l

RT: 12.90 min Scan# 1855

Delta R.T. 0.00 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 583975

Ion Ratio Lower Upper

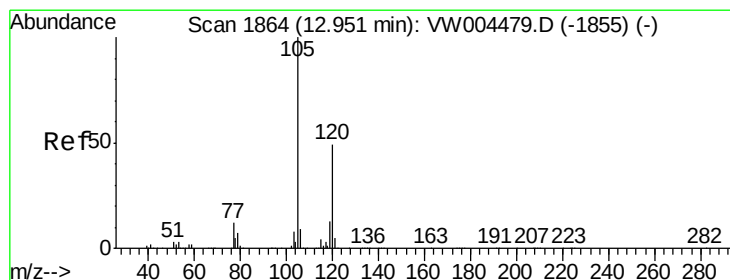
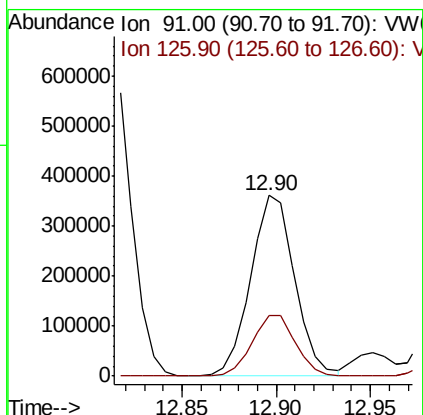
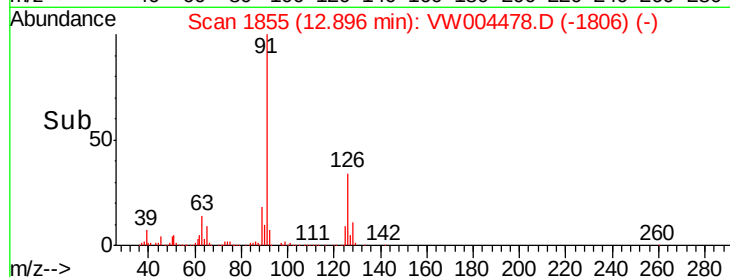
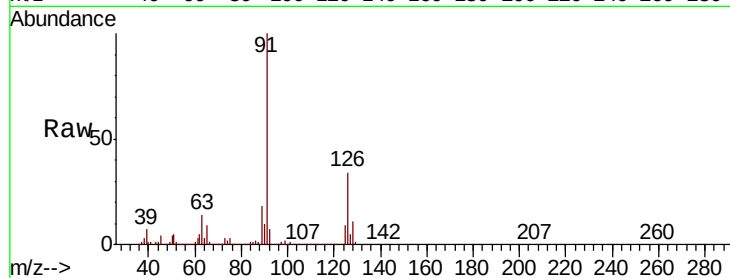
91 100

126 33.4 16.6 49.8

Manual Integrations
APPROVED

apatel

8/7/2018 4:48:58 PM



#80

1,3,5-Trimethylbenzene

Concen: 19.76 ug/l

RT: 12.95 min Scan# 1864

Delta R.T. 0.00 min

Lab File: VW004478.D

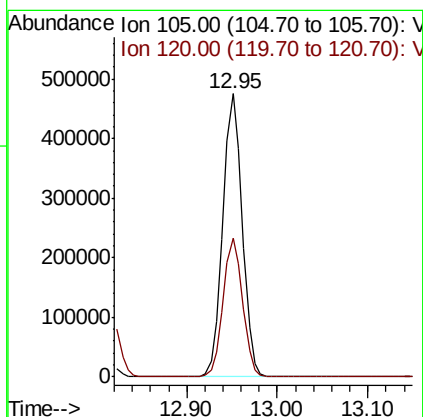
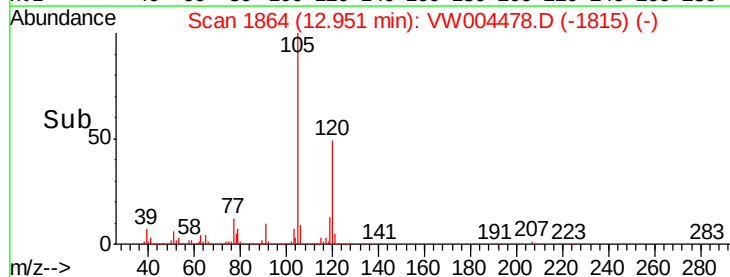
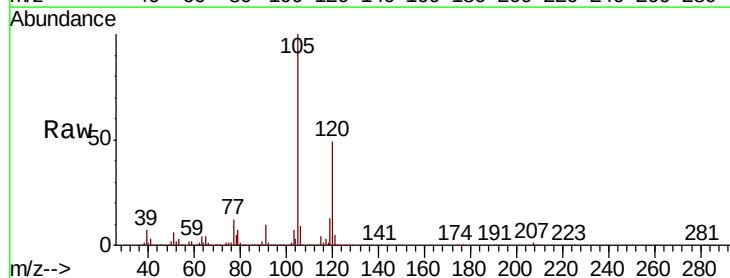
Acq: 06 Aug 2018 19:10

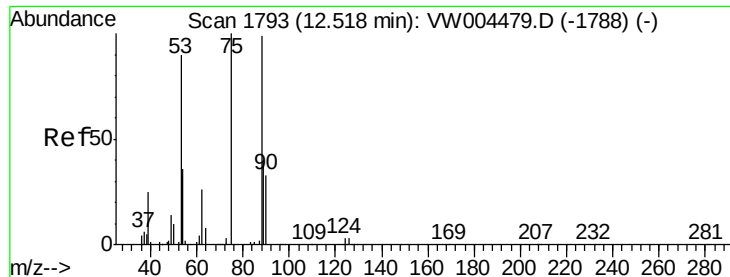
Tgt Ion:105 Resp: 710139

Ion Ratio Lower Upper

105 100

120 49.0 24.6 73.8





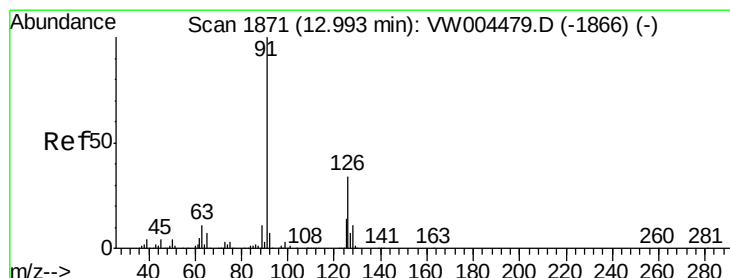
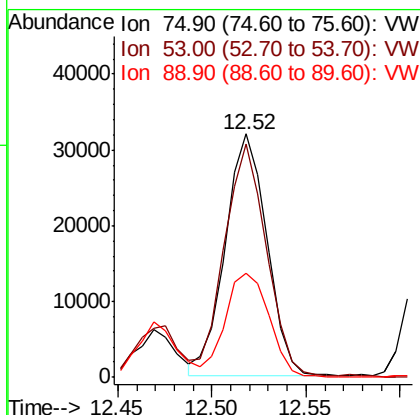
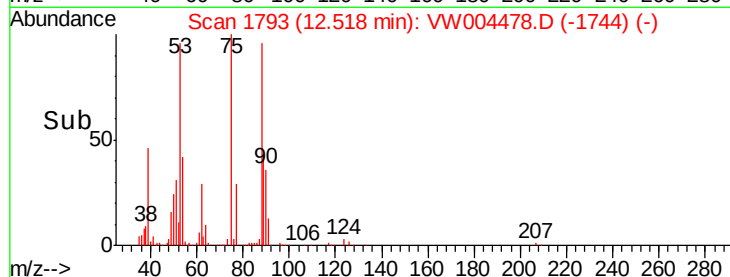
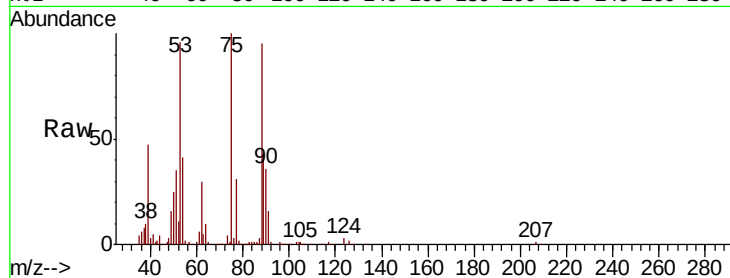
#81
trans-1,4-Dichloro-2-butene
Concen: 20.61 ug/l
RT: 12.52 min Scan# 1793
Delta R.T. 0.00 min
Lab File: VW004478.D
Acq: 06 Aug 2018 19:10

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
75	100		
53	96.3	74.4	111.6
89	45.4	35.9	53.9

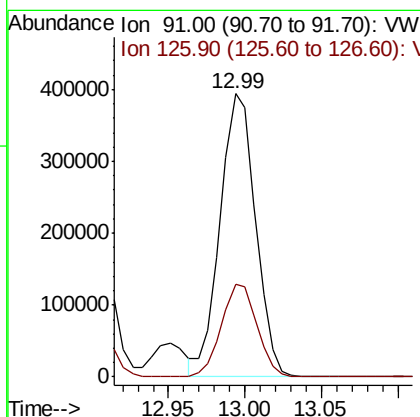
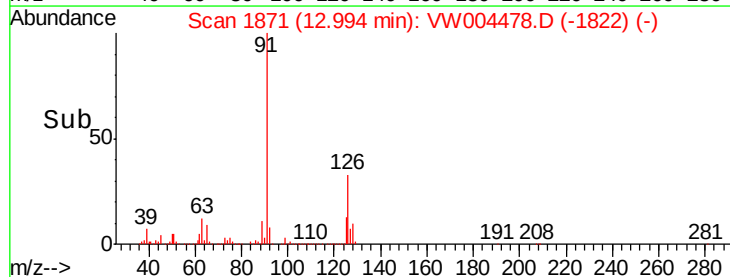
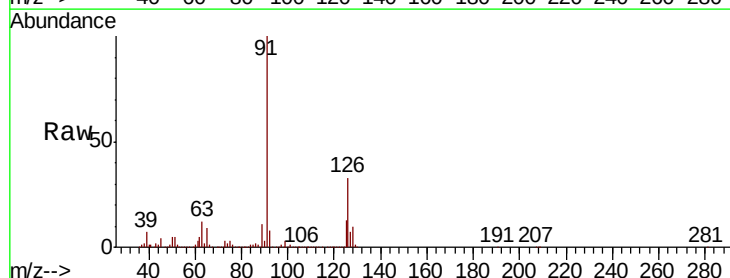
Manual Integrations
APPROVED

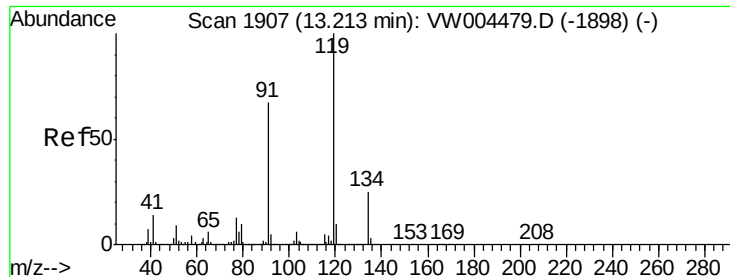
apatel
8/7/2018 4:48:58 PM



#82
4-Chlorotoluene
Concen: 20.48 ug/l
RT: 12.99 min Scan# 1871
Delta R.T. 0.00 min
Lab File: VW004478.D
Acq: 06 Aug 2018 19:10

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.5	49.5





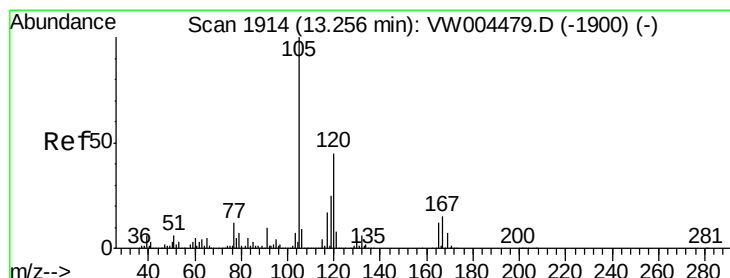
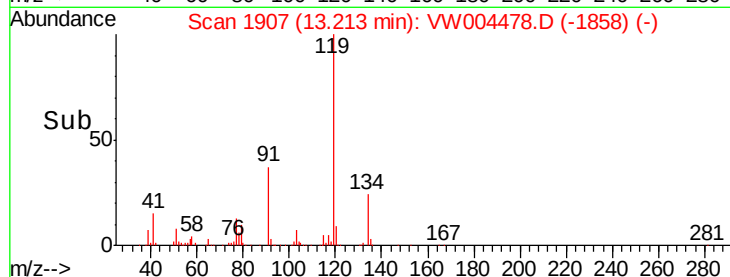
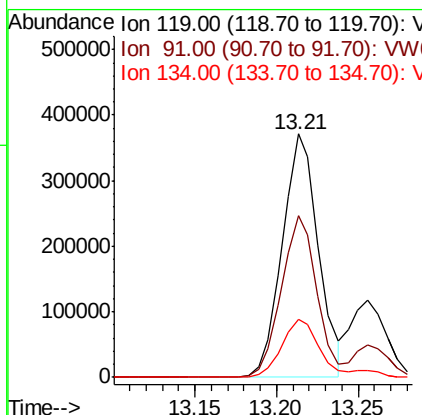
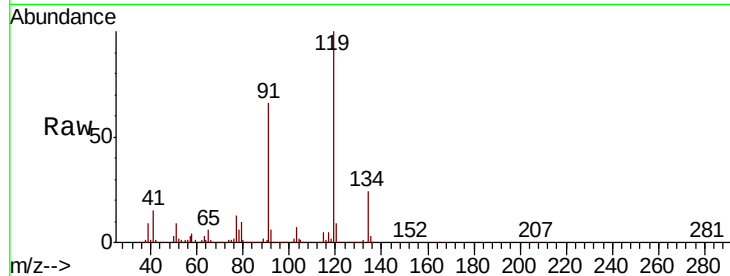
#83
 tert-Butylbenzene
 Concen: 19.18 ug/l
 RT: 13.21 min Scan# 1907
 Delta R.T. 0.00 min
 Lab File: VW004478.D
 Acq: 06 Aug 2018 19:10

Instrument :
 MSVOA_W
 ClientSampled :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
119	100	573353		
91	64.9	33.3	99.8	
134	24.3	12.2	36.6	

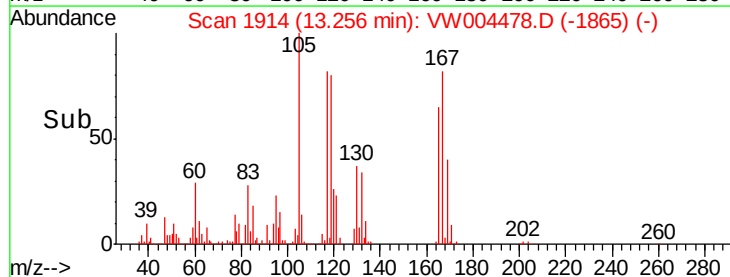
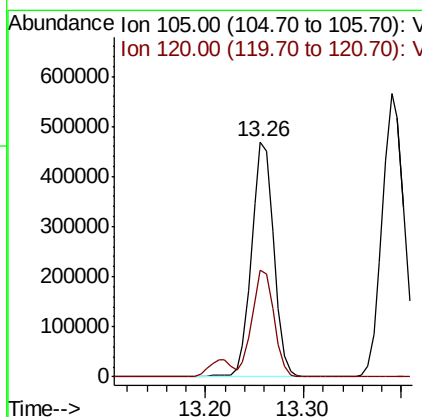
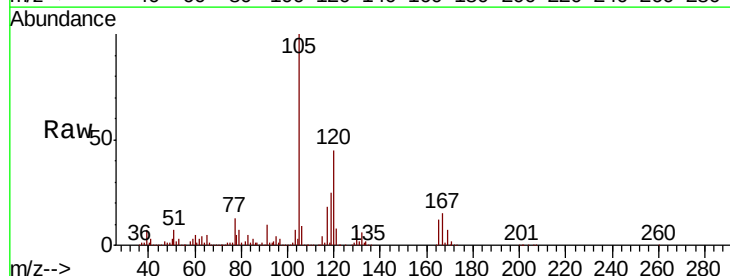
Manual Integrations
 APPROVED

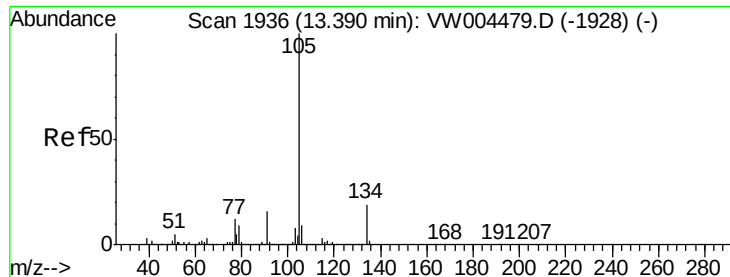
apatel
 8/7/2018 4:48:58 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 20.05 ug/l
 RT: 13.26 min Scan# 1914
 Delta R.T. 0.00 min
 Lab File: VW004478.D
 Acq: 06 Aug 2018 19:10

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	736589		
120	44.9	22.6	67.8	





#85

sec-Butylbenzene

Concen: 20.09 ug/l

RT: 13.39 min Scan# 1936

Delta R.T. 0.00 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 878311

Ion Ratio Lower Upper

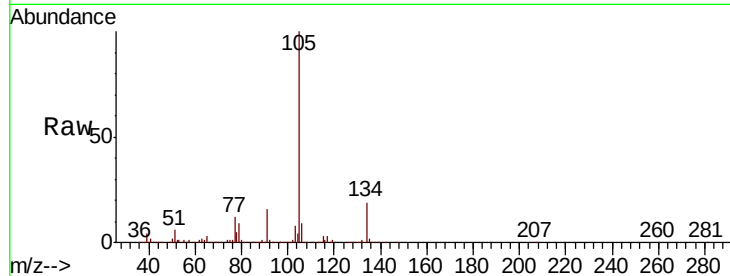
105 100

134 19.4 9.8 29.5

Manual Integrations
APPROVED

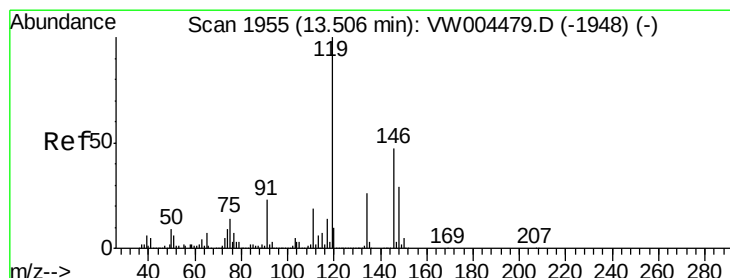
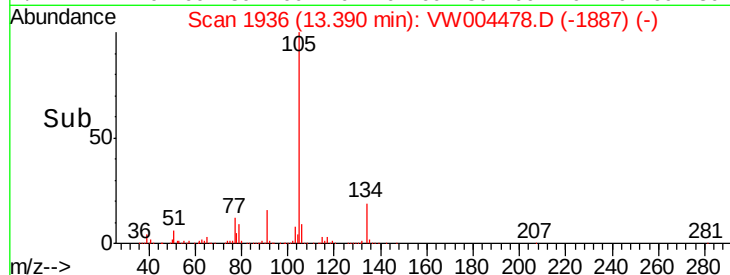
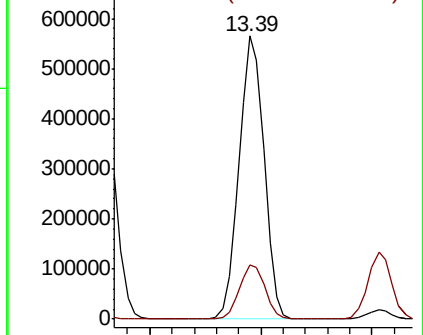
apatel

8/7/2018 4:48:58 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 19.78 ug/l

RT: 13.51 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

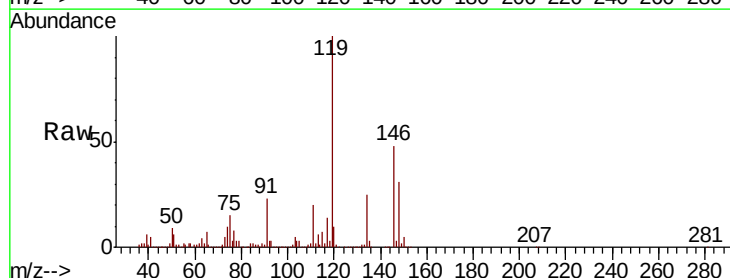
Tgt Ion:119 Resp: 774425

Ion Ratio Lower Upper

119 100

134 25.4 13.1 39.1

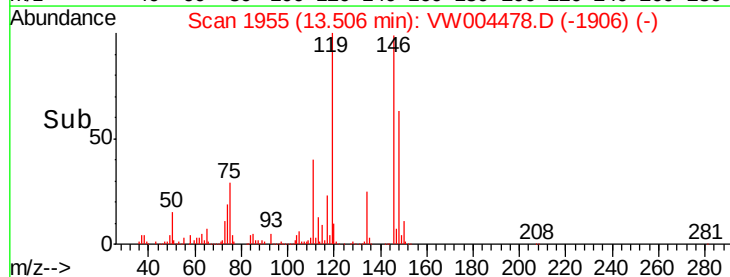
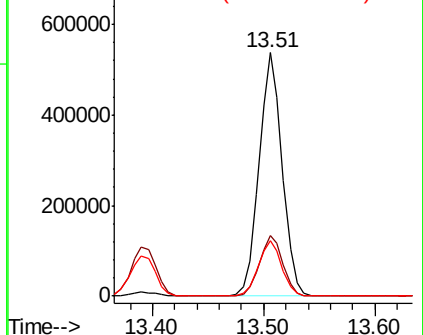
91 23.0 11.4 34.1

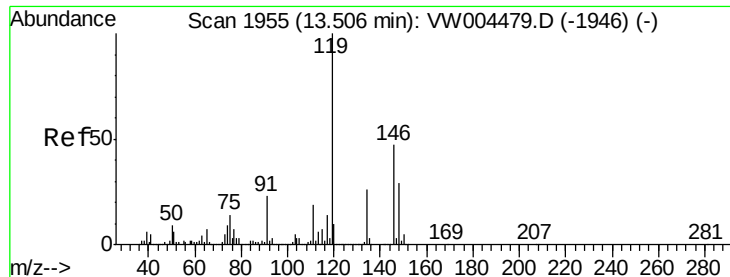


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





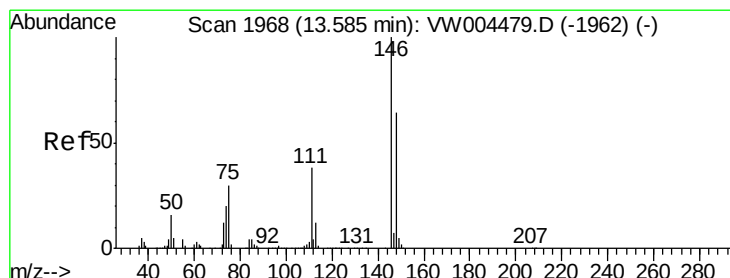
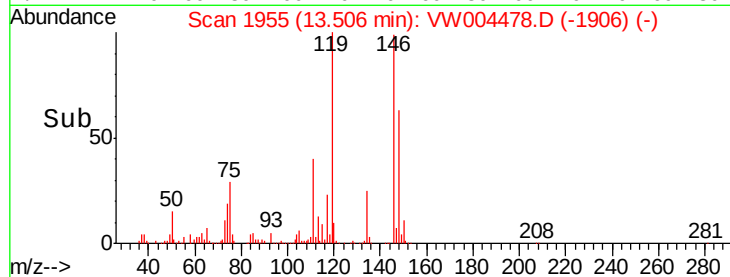
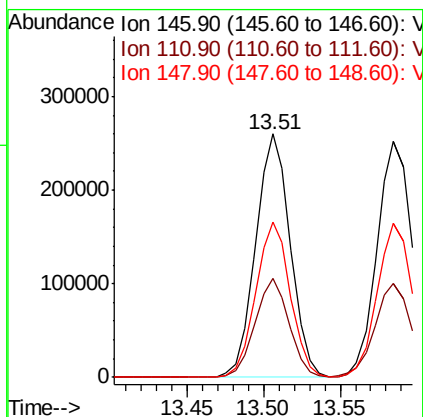
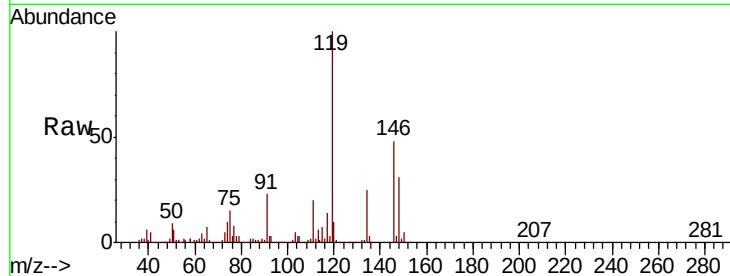
#87
 1,3-Dichlorobenzene
 Concen: 20.20 ug/l
 RT: 13.51 min Scan# 1955
 Delta R.T. 0.00 min
 Lab File: VW004478.D
 Acq: 06 Aug 2018 19:10

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
146	100	408307		
111	40.0	20.0	59.9	
148	63.7	31.7	95.1	

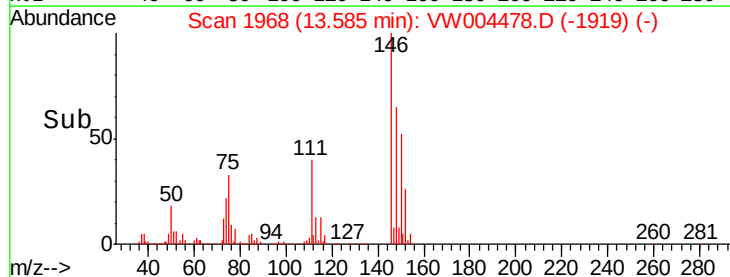
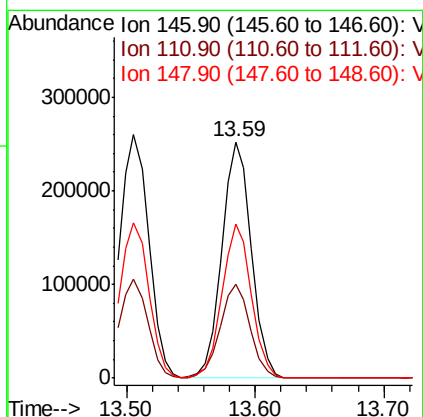
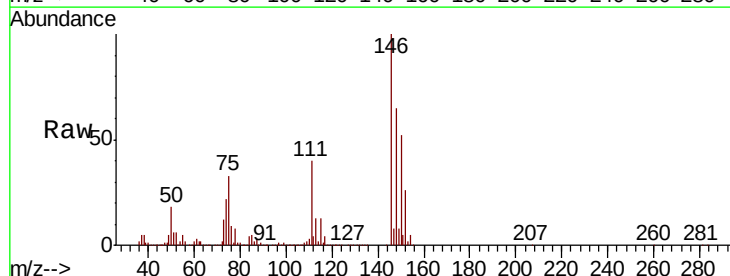
Manual Integrations
 APPROVED

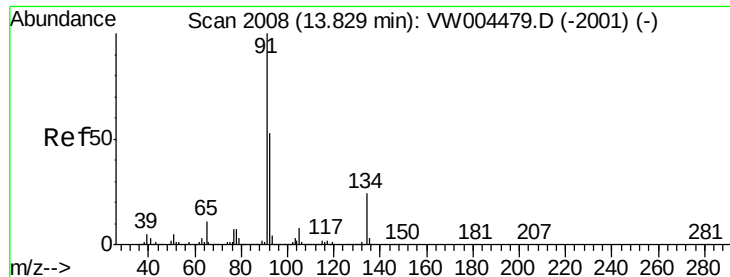
apatel
 8/7/2018 4:48:58 PM



#88
 1,4-Dichlorobenzene
 Concen: 20.05 ug/l
 RT: 13.59 min Scan# 1968
 Delta R.T. 0.00 min
 Lab File: VW004478.D
 Acq: 06 Aug 2018 19:10

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	404321		
111	40.7	19.6	58.8	
148	64.9	31.9	95.5	





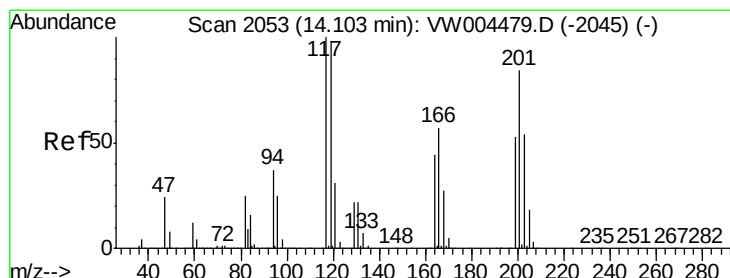
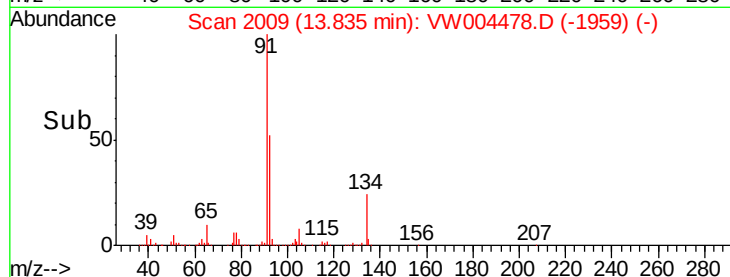
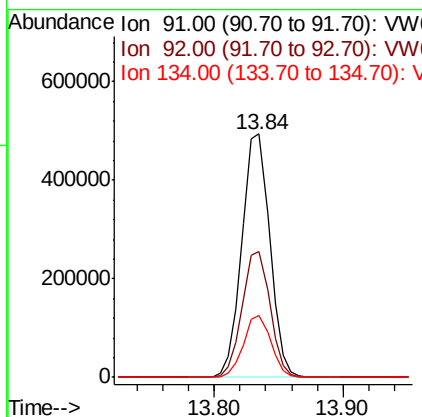
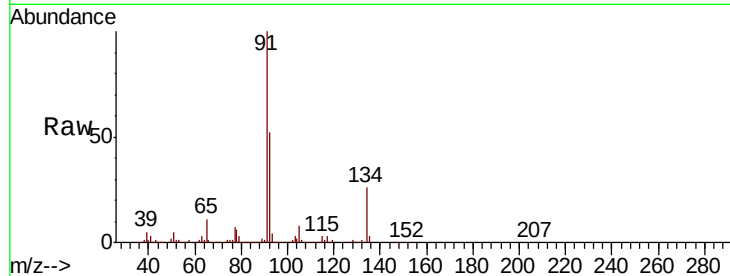
#89
n-Butylbenzene
Concen: 20.11 ug/l
RT: 13.84 min Scan# 2009
Delta R.T. 0.01 min
Lab File: VW004478.D
Acq: 06 Aug 2018 19:10

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.6	26.4	79.0
134	24.8	12.4	37.2

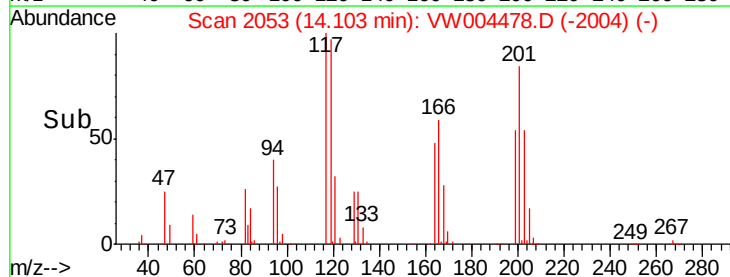
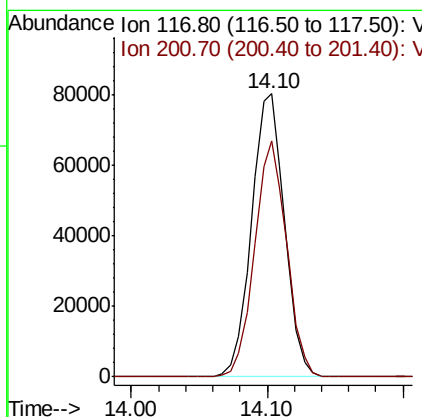
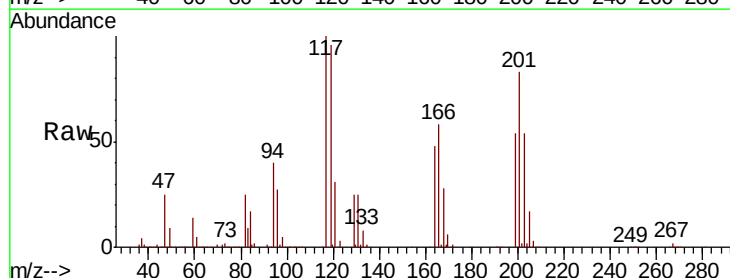
Manual Integrations
APPROVED

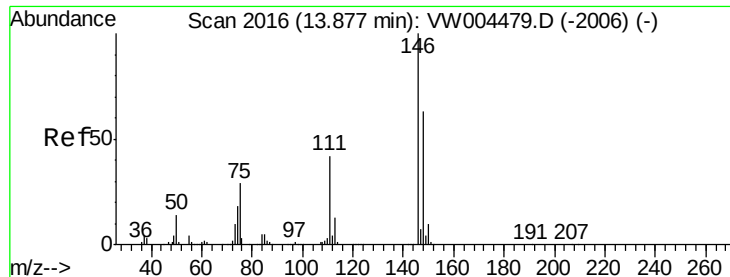
apatel
8/7/2018 4:48:58 PM



#90
Hexachloroethane
Concen: 19.47 ug/l
RT: 14.10 min Scan# 2053
Delta R.T. 0.00 min
Lab File: VW004478.D
Acq: 06 Aug 2018 19:10

Tgt Ion	Ratio	Lower	Upper
117	100		
201	81.1	40.1	120.3





#91

1,2-Dichlorobenzene

Concen: 20.66 ug/l

RT: 13.88 min Scan# 2016

Delta R.T. 0.00 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

Instrument :

MSVOA_W

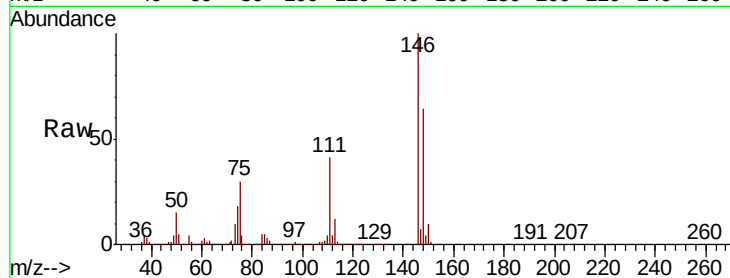
ClientSampleId :

VSTDIC020

Tot Ion:	146	Resp:	374502
Ion Ratio	Lower	Upper	
146	100		
111	40.6	20.8	62.2
148	63.7	31.8	95.4

Manual Integrations
APPROVED

apatel
8/7/2018 4:48:58 PM

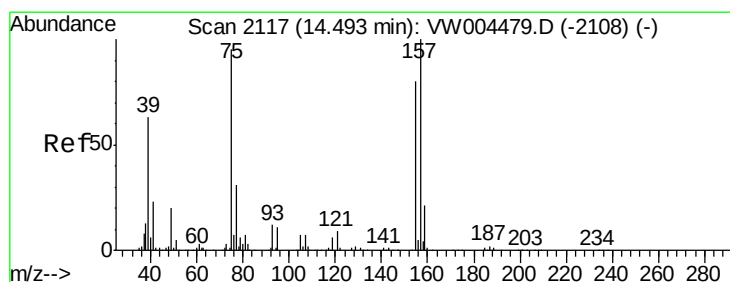
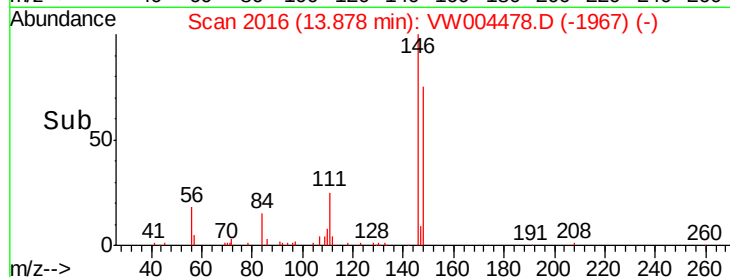
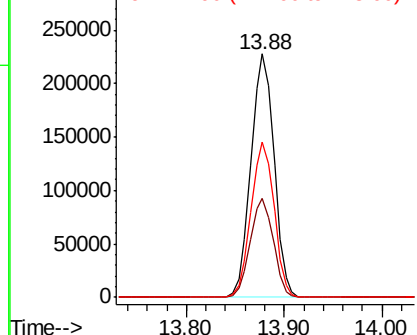


Abundance

Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 21.50 ug/l

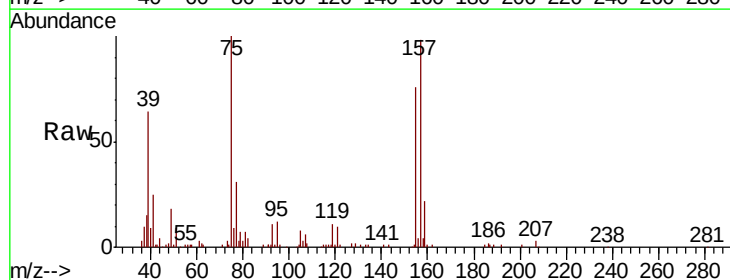
RT: 14.49 min Scan# 2117

Delta R.T. 0.00 min

Lab File: VW004478.D

Acq: 06 Aug 2018 19:10

Tgt Ion:	75	Resp:	27850
Ion Ratio	Lower	Upper	
75	100		
155	79.7	41.3	123.7
157	103.3	52.6	157.8

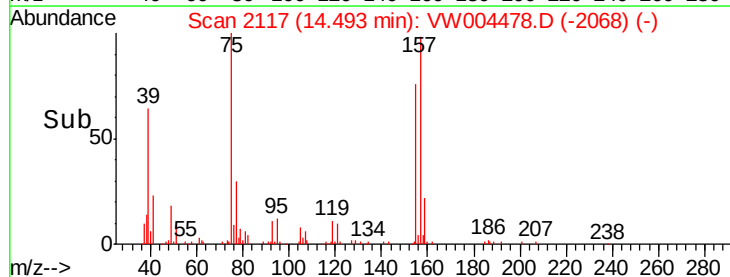
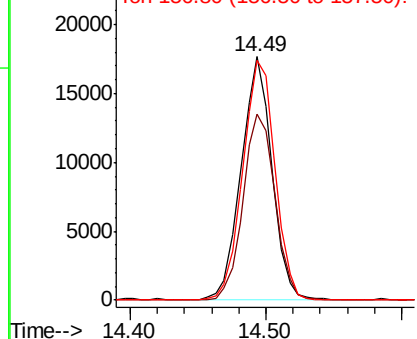


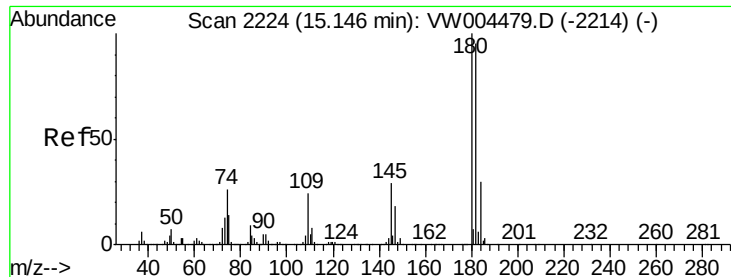
Abundance

Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





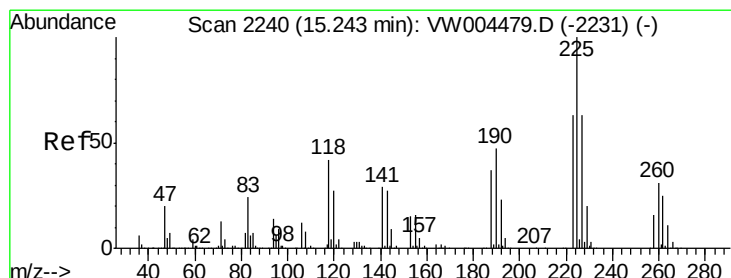
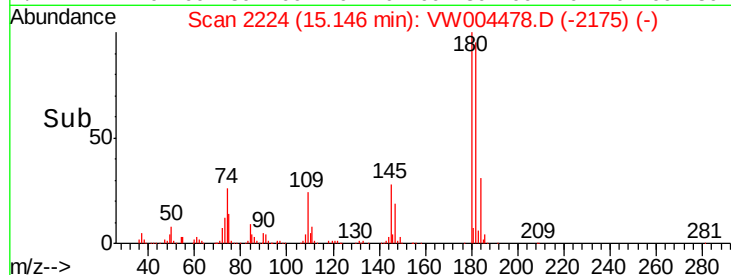
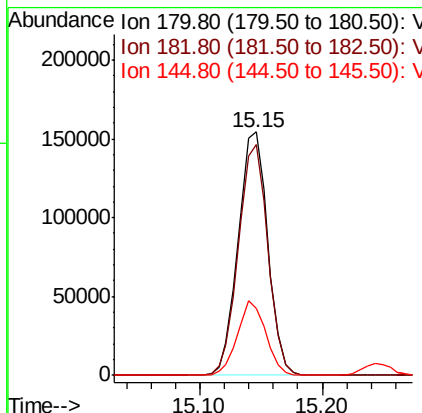
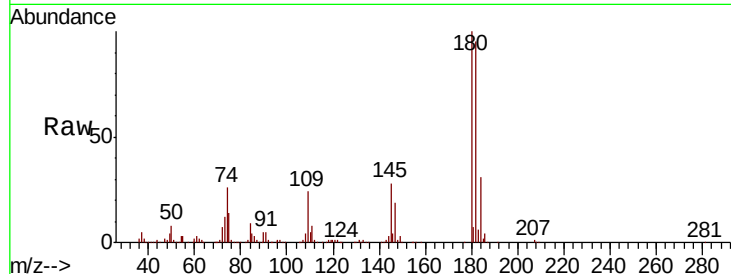
#93
 1,2,4-Trichlorobenzene
 Concen: 20.32 ug/l
 RT: 15.15 min Scan# 2224
 Delta R.T. 0.00 min
 Lab File: VW004478.D
 Acq: 06 Aug 2018 19:10

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
180	100	258328		
182	94.6	47.9	143.6	
145	29.4	14.9	44.9	

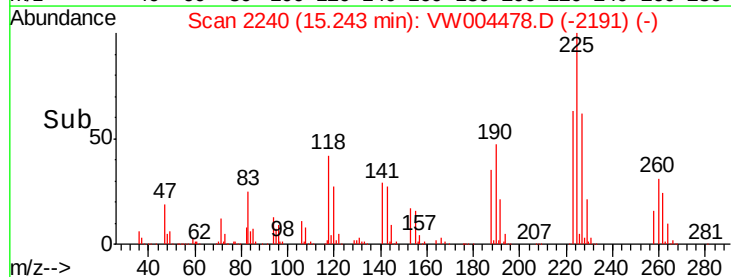
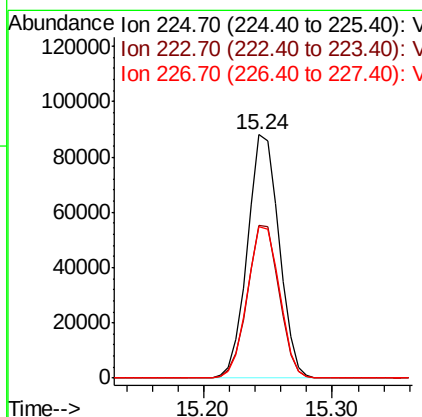
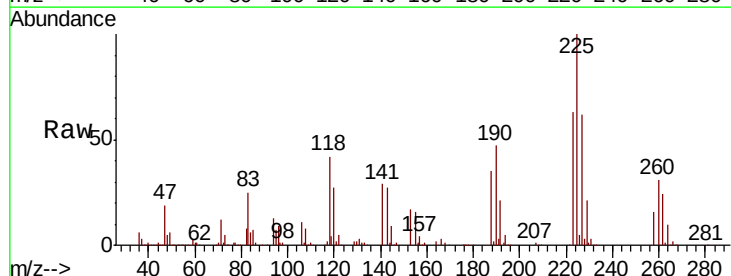
Manual Integrations
 APPROVED

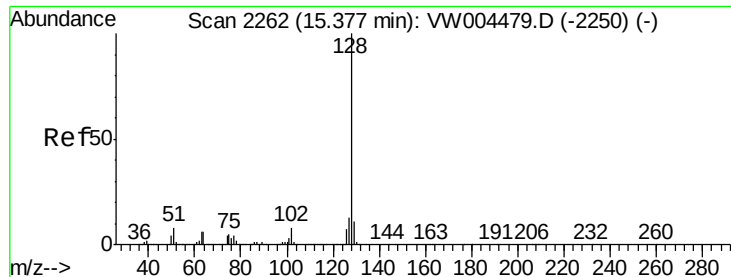
apatel
 8/7/2018 4:48:58 PM



#94
 Hexachlorobutadiene
 Concen: 19.24 ug/l
 RT: 15.24 min Scan# 2240
 Delta R.T. 0.00 min
 Lab File: VW004478.D
 Acq: 06 Aug 2018 19:10

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	148640		
223	63.1	31.3	93.8	
227	63.7	31.8	95.4	





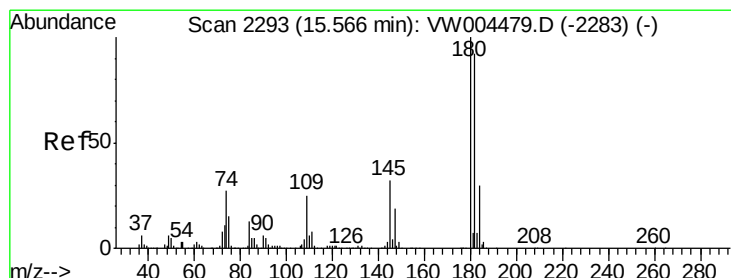
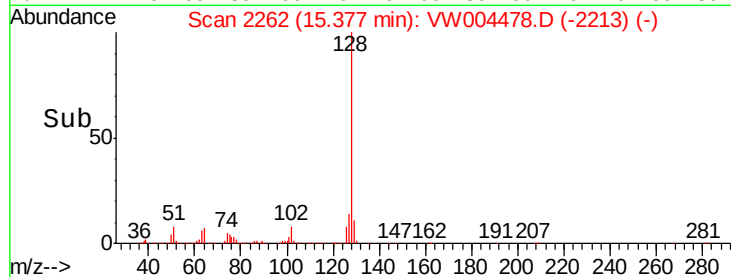
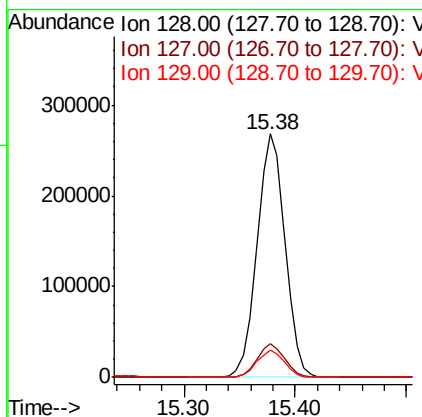
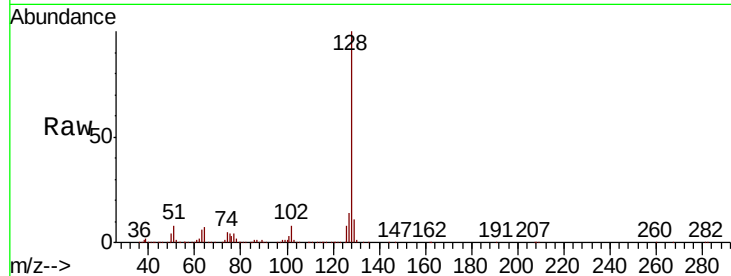
#95
Naphthalene
Concen: 21.07 ug/l
RT: 15.38 min Scan# 2262
Delta R.T. 0.00 min
Lab File: VW004478.D
Acq: 06 Aug 2018 19:10

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
128	100	469225		
127	13.4	10.3	15.5	
129	11.2	8.6	13.0	

Manual Integrations
APPROVED

apatel
8/7/2018 4:48:58 PM



#96
1,2,3-Trichlorobenzene
Concen: 20.73 ug/l
RT: 15.57 min Scan# 2293
Delta R.T. 0.00 min
Lab File: VW004478.D
Acq: 06 Aug 2018 19:10

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	232242		
182	96.5	47.0	141.2	
145	31.9	15.9	47.6	

