

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL123019\
 Data File : VL034511.D
 Acq On : 30 Dec 2019 11:43
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

apatel
 1/2/2020 10:48:39 AM

Quant Time: Dec 30 14:30:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL123019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 30 2019
 QLast Update : Mon Dec 30 14:19:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1081809	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2160719	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	2166952	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.47	95	1786582	9.80	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.02	85	195883	1.001 ppbv	96
3) Chlorodifluoromethane	2.95	51	139956	1.037 ppbv	98
4) Chloromethane	3.11	50	82421	1.035 ppbv	89
5) Vinyl Chloride	3.23	62	72507	0.972 ppbv	95
6) Bromomethane	3.45	94	39641	1.056 ppbv	93
7) Chloroethane	3.53	64	28251	1.043 ppbv	93
8) Dichlorotetrafluoroethane	3.16	85	189643	1.079 ppbv	99
9) Propene	2.98	41	50389	0.841 ppbv	98
10) Heptane	8.14	43	129566	0.838 ppbv	97
11) Trichlorofluoromethane	3.93	101	216776	1.113 ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.47	101	131701	1.018 ppbv	99
13) Ethanol	3.58	45	15258m	0.914 ppbv	
14) Bromoethene	3.72	108	53139	1.010 ppbv	97
15) Acetone	3.83	43	178398	1.152 ppbv	97
16) 1,3-Butadiene	3.30	39	65887	0.976 ppbv	94
17) tert-Butyl alcohol	4.28	59	140351m	1.078 ppbv	
18) 1,1-Dichloroethene	4.28	96	58310	1.031 ppbv	94
19) Isopropyl Alcohol	3.95	45	117459	1.183 ppbv #	93
20) Methylene Chloride	4.33	84	75416m	1.373 ppbv	
21) Allyl Chloride	4.40	41	95333m	1.027 ppbv	
22) trans-1,2-Dichloroethene	4.88	96	58719	1.029 ppbv	95
23) Vinyl Acetate	5.07	43	182751	0.903 ppbv	97
24) 1,1-Dichloroethane	5.00	63	157922	1.016 ppbv	99
25) Ethyl Acetate	5.68	43	261174	0.945 ppbv	99
26) Hexane	5.69	57	110751	0.932 ppbv	98
27) Carbon Disulfide	4.54	76	131565	1.017 ppbv	96
28) Methyl tert-Butyl Ether	5.03	73	179448	0.911 ppbv	99
29) Chloroform	5.75	83	195661	1.017 ppbv	98
30) Cyclohexane	7.15	84	72121	0.803 ppbv	95
31) cis-1,2-Dichloroethene	5.55	61	107750	0.878 ppbv	97
32) 1,1,1-Trichloroethane	6.52	97	194591m	1.079 ppbv	
34) 2-Butanone	5.24	43	166281	0.935 ppbv	100
35) Carbon Tetrachloride	7.03	117	204243	1.099 ppbv	84
36) Benzene	6.91	78	197234	0.913 ppbv	95
37) 1,2-Dichloroethane	6.31	62	164847	1.027 ppbv	99
38) Trichloroethene	7.86	130	78606	0.887 ppbv	96
39) 1,2-Dichloropropane	7.63	63	83088	0.998 ppbv	91
40) 1,4-Dioxane	7.86	88	34447m	0.948 ppbv	
41) Tetrahydrofuran	6.07	42	80166	0.804 ppbv	99
42) Bromodichloromethane	7.81	83	193137	0.962 ppbv	97
43) Methyl Methacrylate	8.03	69	77264	0.862 ppbv	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL123019\
 Data File : VL034511.D
 Acq On : 30 Dec 2019 11:43
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

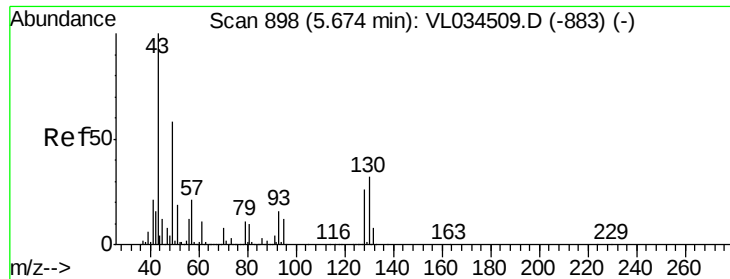
apatel
 1/2/2020 10:48:39 AM

Quant Time: Dec 30 14:30:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL123019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 30
 QLast Update : Mon Dec 30 14:19:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.89	57	374127	0.948	ppbv	98
45) t-1,3-Dichloropropene	9.31	75	87747	0.764	ppbv	96
46) cis-1,3-Dichloropropene	8.73	75	104775	0.812	ppbv	98
47) 1,1,2-Trichloroethane	9.50	97	89497m	0.967	ppbv	
48) Dibromochloromethane	10.34	129	151371	0.952	ppbv	100
49) Bromoform	13.09	173	136022m	0.959	ppbv	
50) 4-Methyl-2-Pentanone	8.77	43	235337	0.915	ppbv	98
51) 2-Hexanone	10.18	43	176653	0.820	ppbv #	97
52) Tetrachloroethene	11.26	164	73949m	0.791	ppbv	
53) Toluene	9.84	91	208637	0.850	ppbv	99
54) 1,2-Dibromoethane	10.64	107	130619	0.920	ppbv	94
56) 1,1,1,2-Tetrachloroethane	12.17	131	106139m	1.001	ppbv	
57) Chlorobenzene	12.19	112	188389	0.962	ppbv	91
58) Ethyl Benzene	12.76	91	309011	0.919	ppbv	97
59) m/p-Xylene	13.03	91	539516m	1.856	ppbv	
60) o-Xylene	13.74	91	270656	0.942	ppbv	96
61) Styrene	13.58	104	177972	0.859	ppbv	99
62) Isopropylbenzene	14.72	105	355875	0.936	ppbv	96
63) 1,1,2,2-Tetrachloroethane	13.73	83	208268	0.964	ppbv	100
64) n-propylbenzene	15.62	120	89480	0.906	ppbv	84
65) tert-Butylbenzene	16.80	119	315213	0.923	ppbv	93
66) Benzyl Chloride	17.05	91	118215m	0.900	ppbv	
67) sec-Butylbenzene	17.35	105	465702	0.975	ppbv	95
69) p-Isopropyltoluene	17.70	119	369507	0.932	ppbv	99
70) n-Butylbenzene	18.61	91	400169	0.938	ppbv	96
71) 2-Chlorotoluene	15.51	91	278437	0.919	ppbv	98
72) 4-Ethyltoluene	15.89	105	293507	0.884	ppbv	99
73) 1,3,5-Trimethylbenzene	16.05	105	297815	0.916	ppbv	95
74) 1,2,4-Trimethylbenzene	16.82	105	324018	0.938	ppbv #	88
75) 1,3-Dichlorobenzene	17.06	146	201625m	1.016	ppbv	
76) 1,4-Dichlorobenzene	17.20	146	186518m	0.968	ppbv	
77) 1,2-Dichlorobenzene	17.88	146	177924	0.928	ppbv	97
78) Hexachloro-1,3-Butadiene	23.44	225	174388	1.059	ppbv	97
79) Naphthalene	22.28	128	210278	0.702	ppbv #	93
80) Naphthalene, 2-methyl-	25.04	142	22509	0.167	ppbv #	82
81) 1,2,4-Trichlorobenzene	22.01	180	144694m	0.787	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL034511.D

Acq: 30 Dec 2019 11:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 49 Resp: 1081809

Ion Ratio Lower Upper

49 100

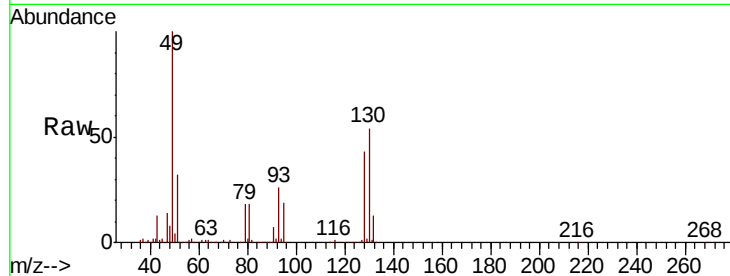
128 43.7 22.4 67.2

130 55.8 28.3 85.0

Manual Integrations
APPROVED

apatel

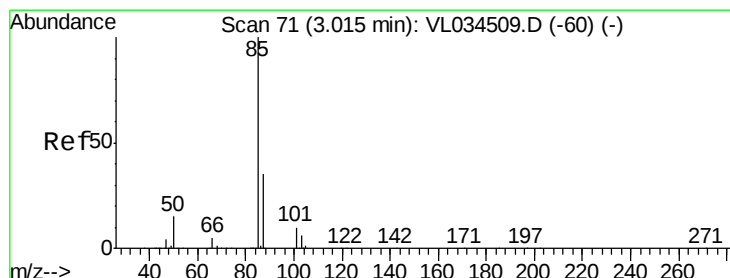
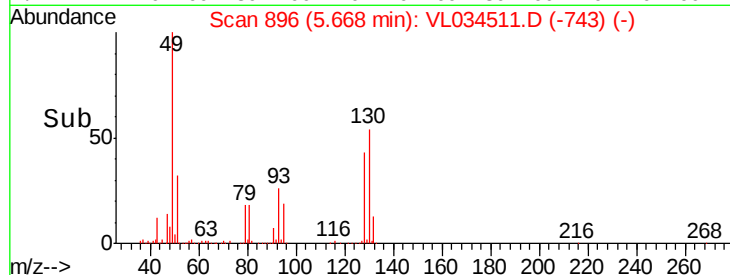
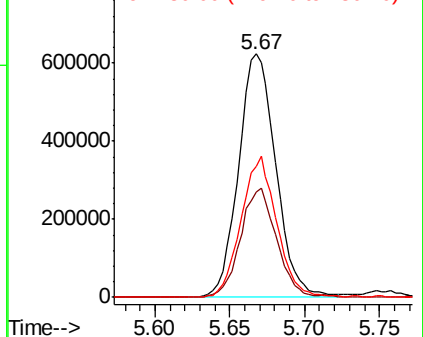
1/2/2020 10:48:39 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 1.001 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.00 min

Lab File: VL034511.D

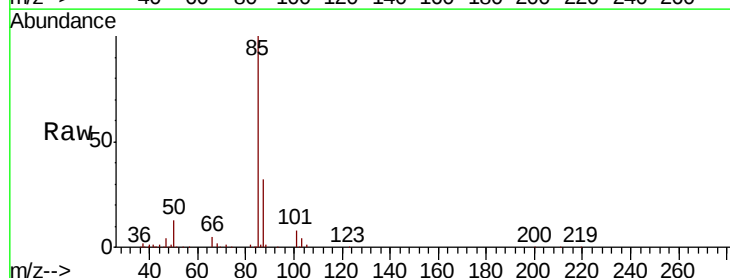
Acq: 30 Dec 2019 11:43

Tgt Ion: 85 Resp: 195883

Ion Ratio Lower Upper

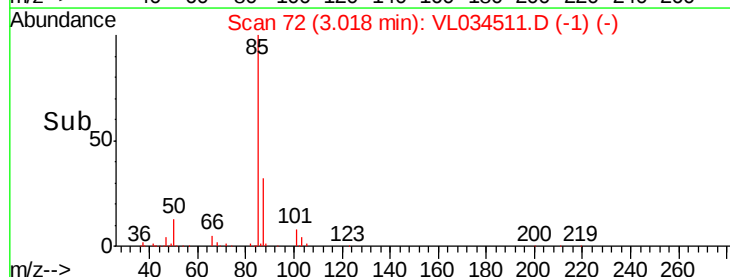
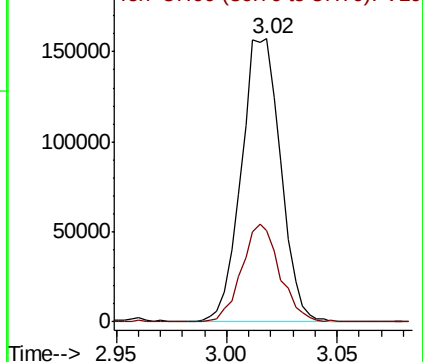
85 100

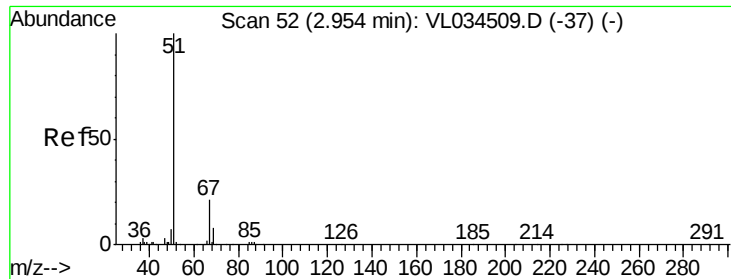
87 32.5 27.9 41.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.037 ppbv

RT: 2.95 min Scan# 51

Delta R.T. -0.00 min

Lab File: VL034511.D

Acq: 30 Dec 2019 11:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 51 Resp: 139956

Ion Ratio Lower Upper

51 100

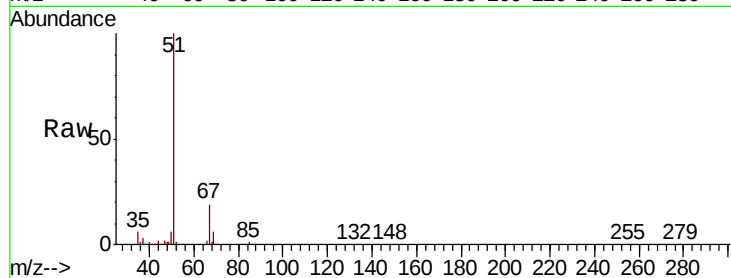
67 19.9 16.8 25.2

Manual Integrations

APPROVED

apatel

1/2/2020 10:48:39 AM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.95

120000

100000

80000

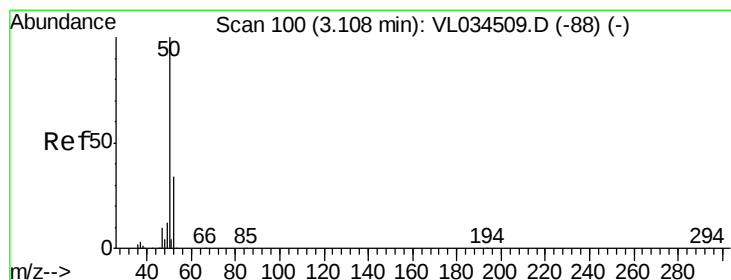
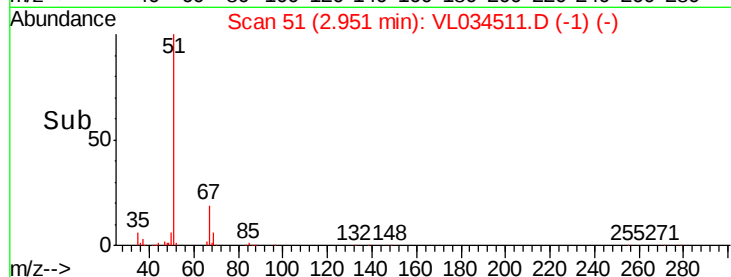
60000

40000

20000

0

Time-->



#4

Chloromethane

Concen: 1.035 ppbv

RT: 3.11 min Scan# 100

Delta R.T. -0.00 min

Lab File: VL034511.D

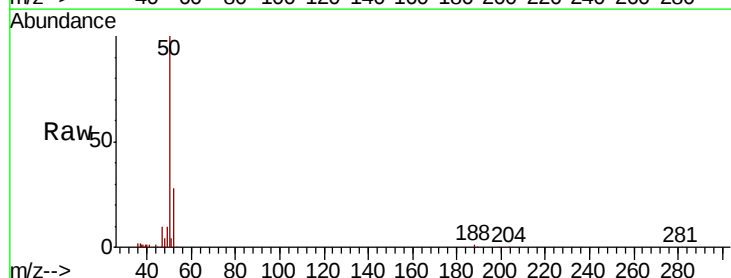
Acq: 30 Dec 2019 11:43

Tgt Ion: 50 Resp: 82421

Ion Ratio Lower Upper

50 100

52 27.9 27.6 41.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.11

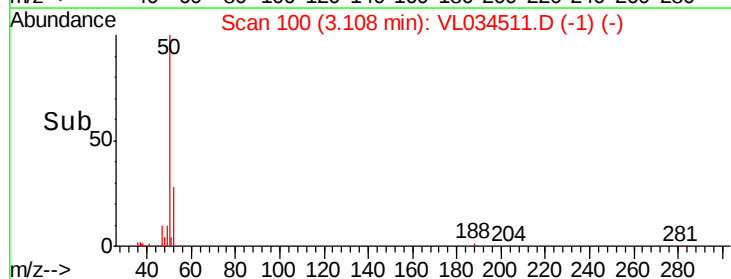
60000

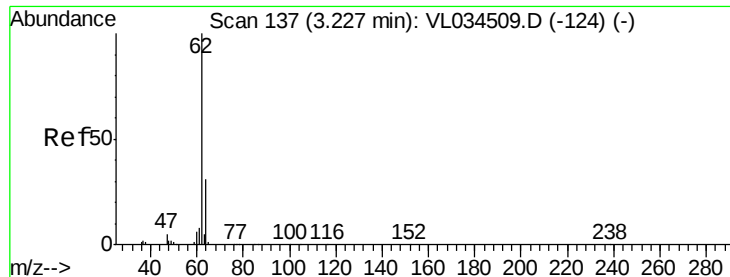
40000

20000

0

Time-->





#5

Vinyl Chloride

Concen: 0.972 ppbv

RT: 3.23 min Scan# 137

Delta R.T. -0.00 min

Lab File: VL034511.D

Acq: 30 Dec 2019 11:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 62 Resp: 72507

Ion Ratio Lower Upper

62 100

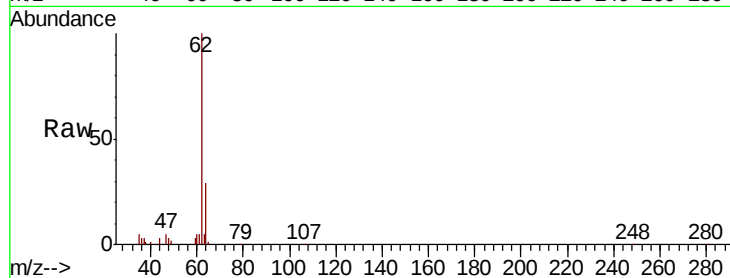
64 28.5 24.9 37.3

Manual Integrations

APPROVED

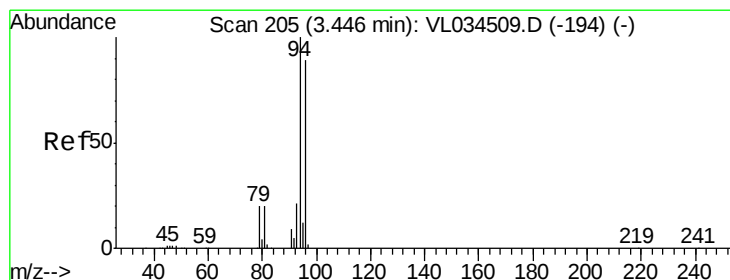
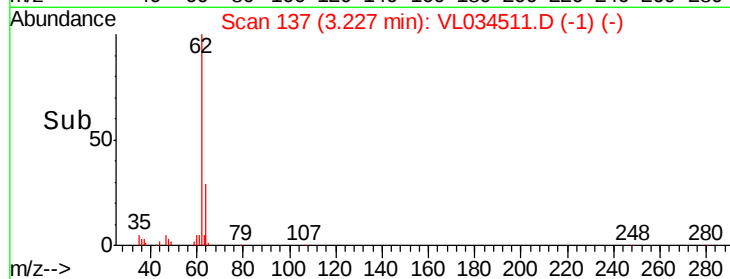
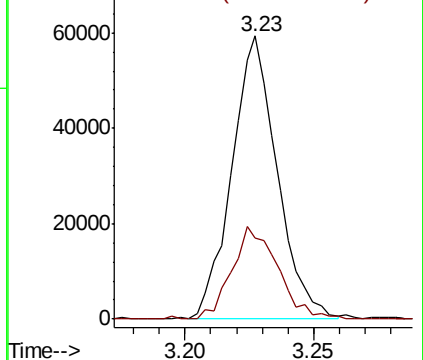
apatel

1/2/2020 10:48:39 AM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 1.056 ppbv

RT: 3.45 min Scan# 205

Delta R.T. -0.00 min

Lab File: VL034511.D

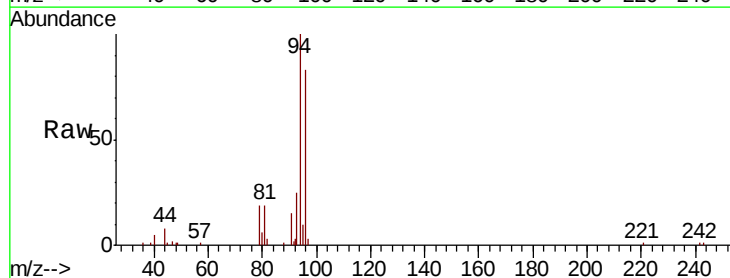
Acq: 30 Dec 2019 11:43

Tgt Ion: 94 Resp: 39641

Ion Ratio Lower Upper

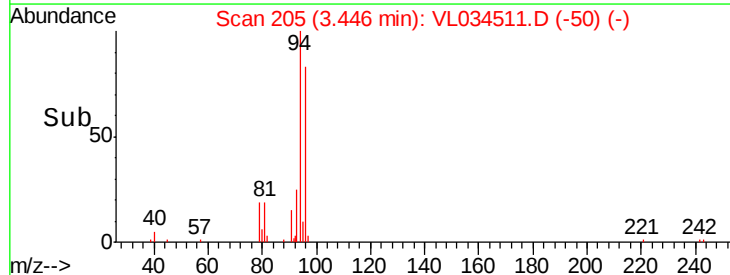
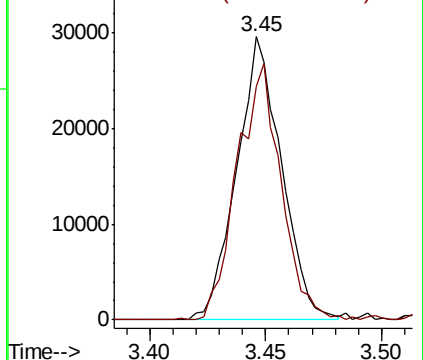
94 100

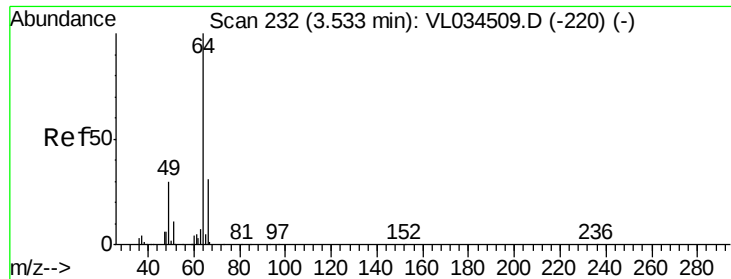
96 82.7 71.2 106.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 1.043 ppbv

RT: 3.53 min Scan# 232

Delta R.T. -0.00 min

Lab File: VL034511.D

Acq: 30 Dec 2019 11:43

Instrument :

MSVOA_L

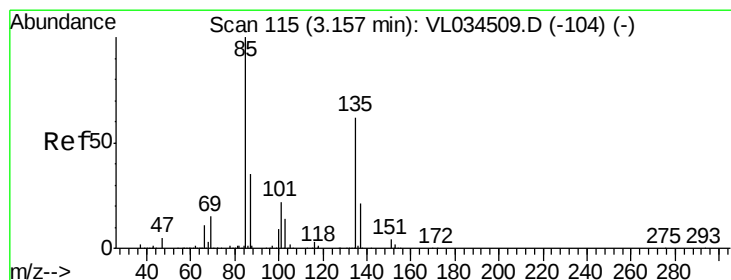
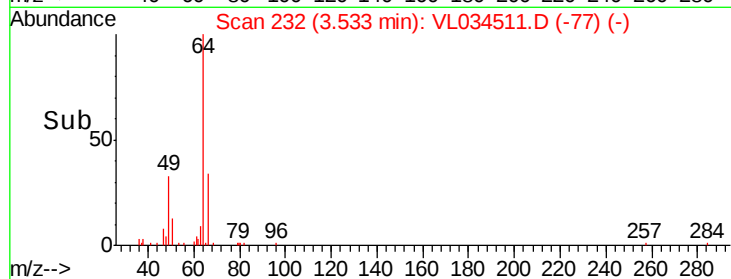
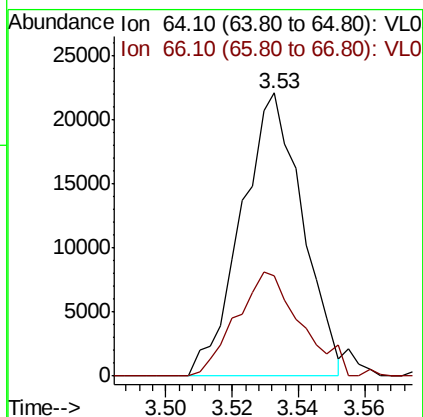
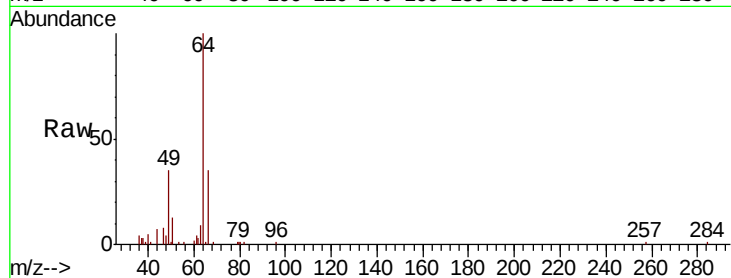
ClientSampleId :

VSTDIC001

Tot Ion	64	Resp	28251
Ion Ratio	100	Lower	Upper
66	35.3	25.0	37.4

Manual Integrations
APPROVED

apatel
1/2/2020 10:48:39 AM



#8

Dichlorotetrafluoroethane

Concen: 1.079 ppbv

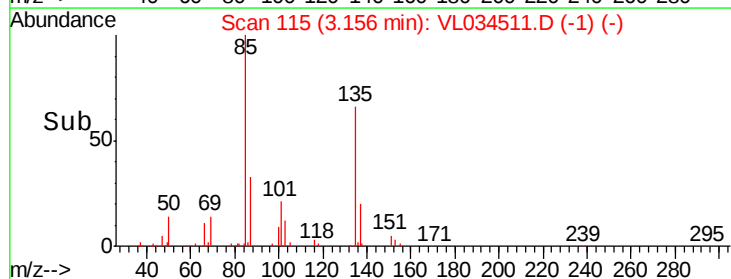
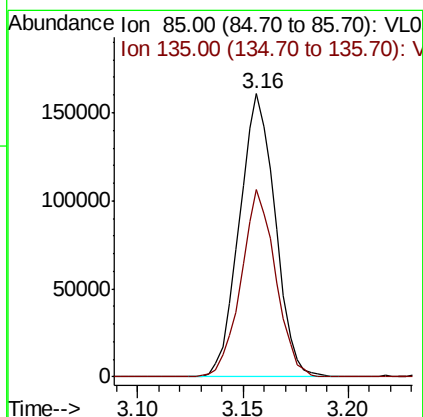
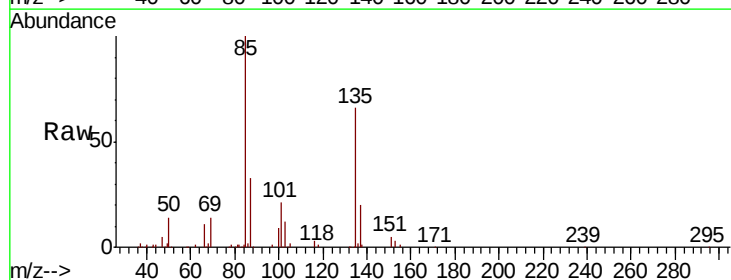
RT: 3.16 min Scan# 115

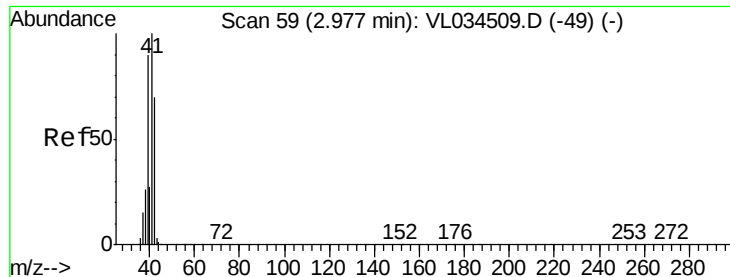
Delta R.T. -0.00 min

Lab File: VL034511.D

Acq: 30 Dec 2019 11:43

Tgt Ion	85	Resp	189643
Ion Ratio	100	Lower	Upper
135	63.9	51.8	77.8





#9

Propene

Concen: 0.841 ppbv

RT: 2.98 min Scan# 59

Delta R.T. -0.00 min

Lab File: VL034511.D

Acq: 30 Dec 2019 11:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 41 Resp: 50389

Ion Ratio Lower Upper

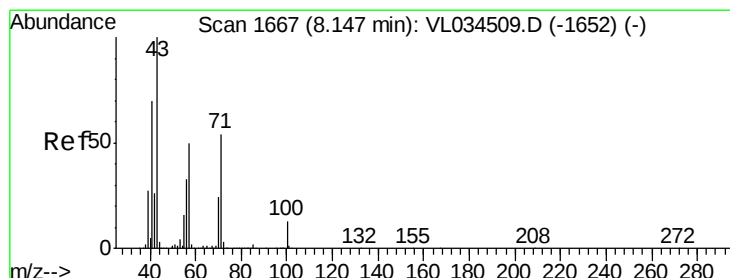
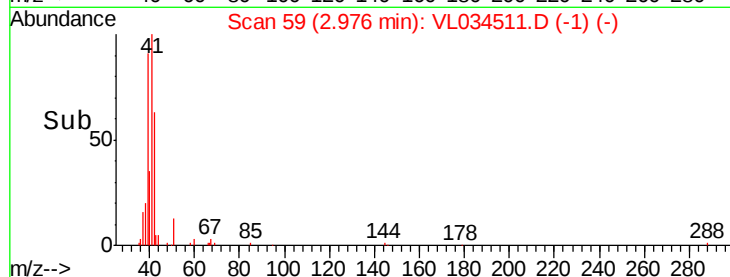
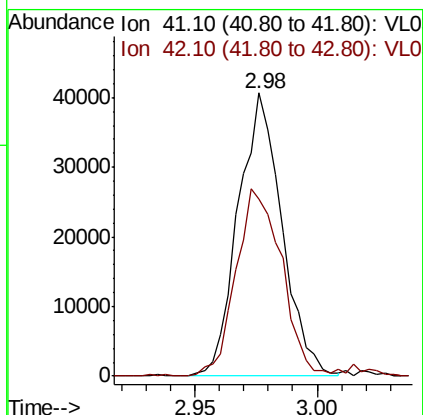
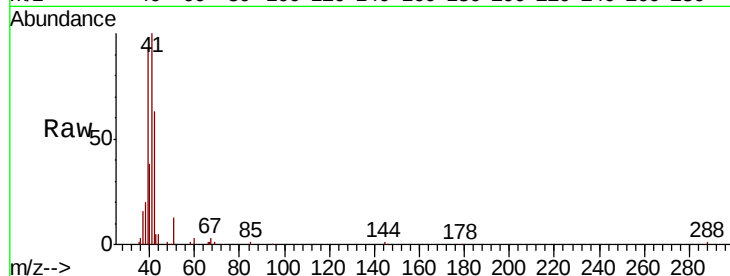
41 100

42 71.3 55.8 83.6

Manual Integrations
APPROVED

apatel

1/2/2020 10:48:39 AM



#10

Heptane

Concen: 0.838 ppbv

RT: 8.14 min Scan# 1666

Delta R.T. -0.00 min

Lab File: VL034511.D

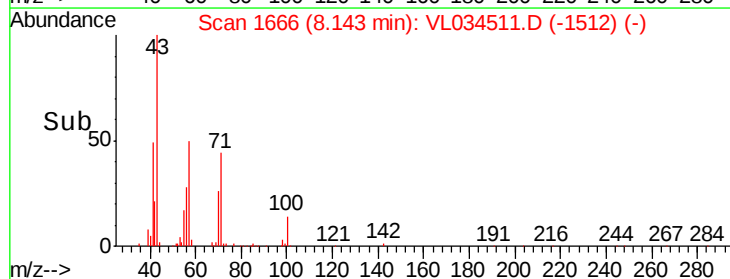
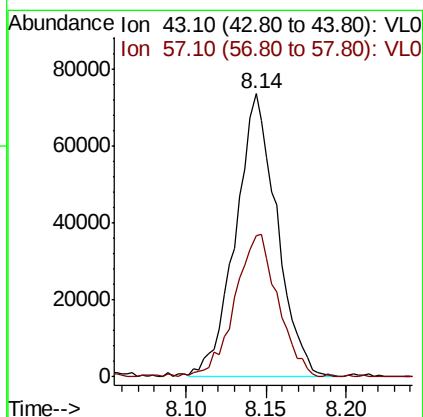
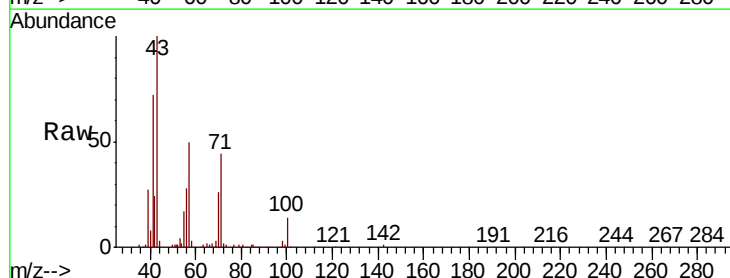
Acq: 30 Dec 2019 11:43

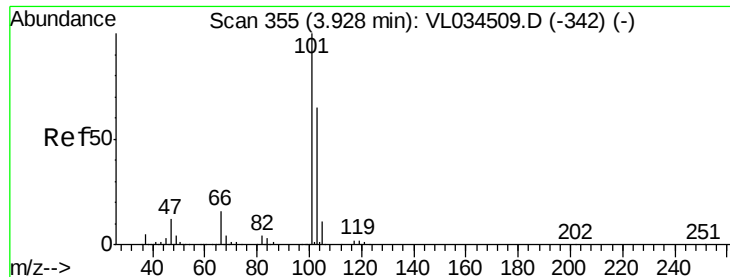
Tgt Ion: 43 Resp: 129566

Ion Ratio Lower Upper

43 100

57 53.2 41.0 61.6





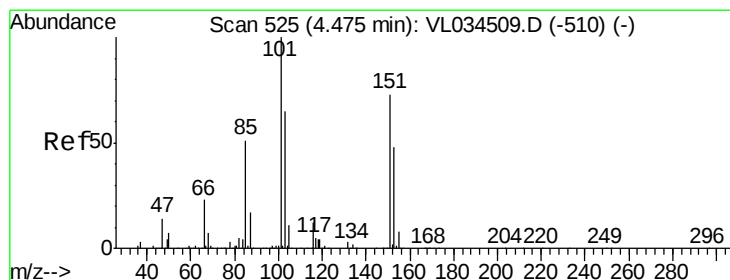
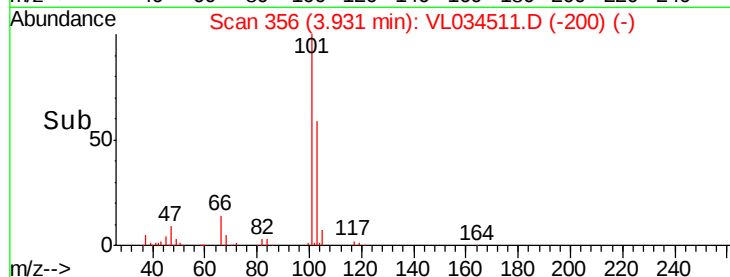
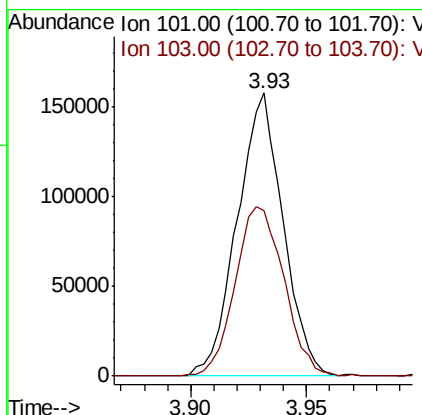
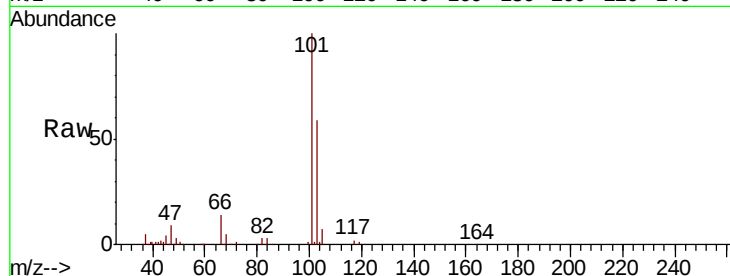
#11
 Trichlorofluoromethane
 Concen: 1.113 ppbv
 RT: 3.93 min Scan# 356
 Delta R.T. 0.00 min
 Lab File: VL034511.D
 Acq: 30 Dec 2019 11:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
101	100		
103	58.5	52.1	78.1

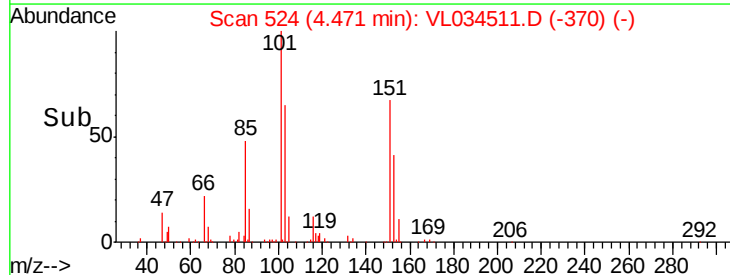
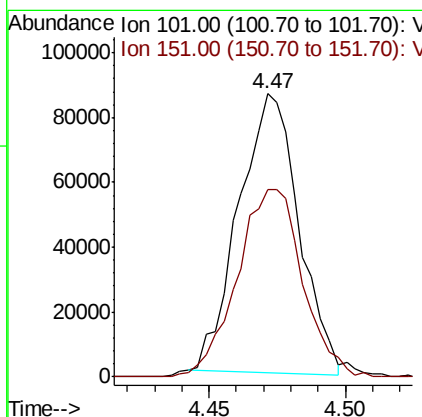
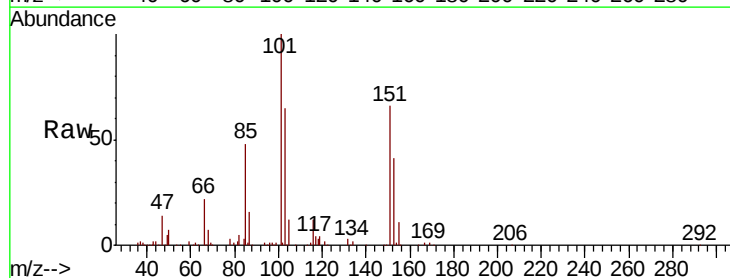
Manual Integrations
 APPROVED

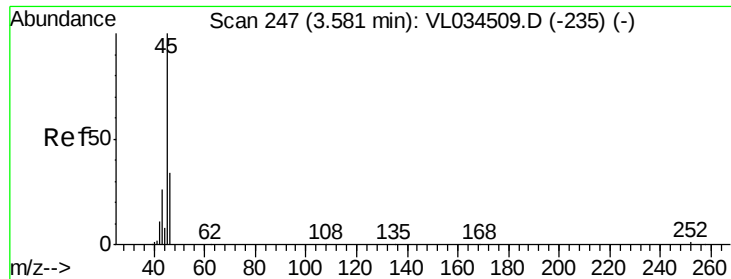
apatel
 1/2/2020 10:48:39 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.018 ppbv
 RT: 4.47 min Scan# 524
 Delta R.T. -0.00 min
 Lab File: VL034511.D
 Acq: 30 Dec 2019 11:43

Tgt Ion	Ratio	Lower	Upper
101	100		
151	73.2	57.8	86.6





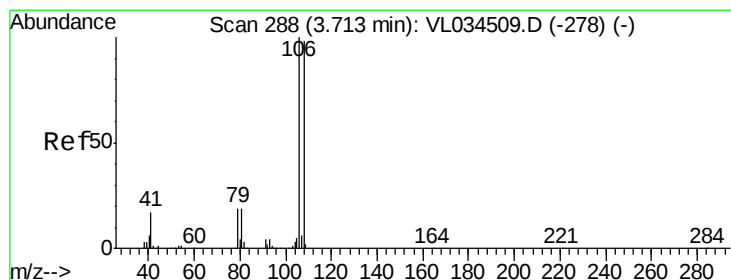
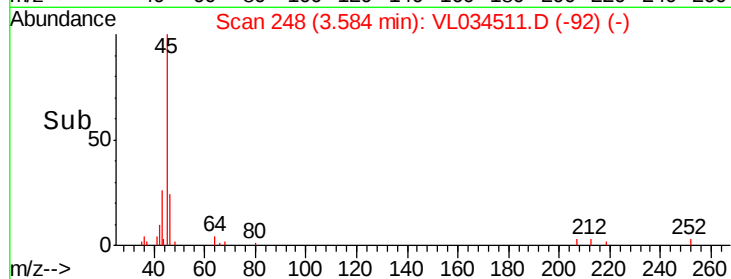
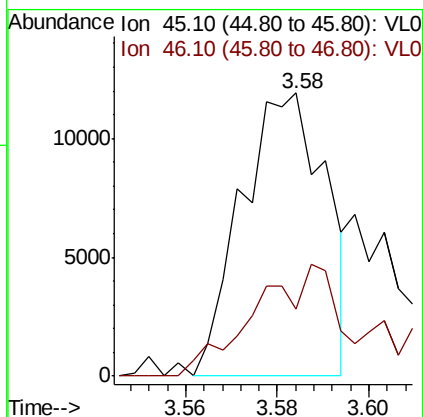
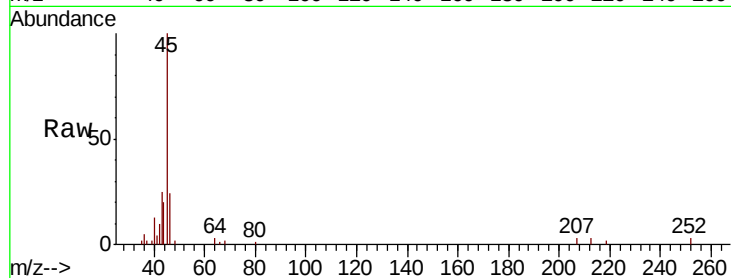
#13
Ethanol
Concen: 0.914 ppbv m
RT: 3.58 min Scan# 248
Delta R.T. 0.00 min
Lab File: VL034511.D
Acq: 30 Dec 2019 11:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 45 Resp: 15258
Ion Ratio Lower Upper
45 100
46 54.5 14.9 59.7

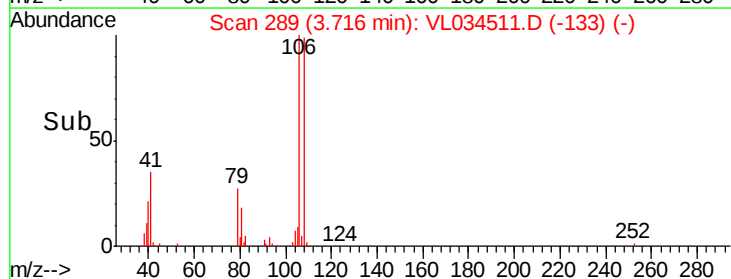
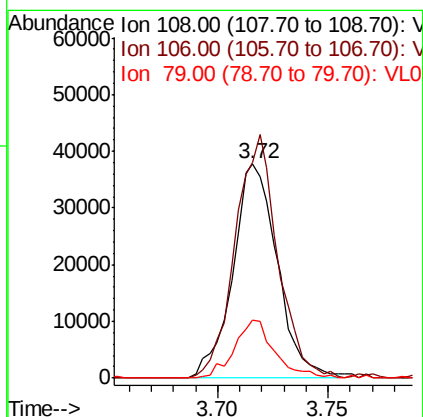
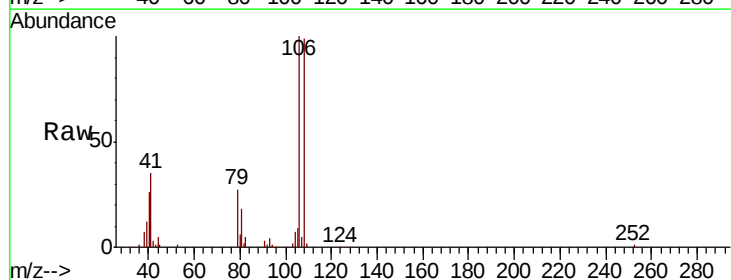
Manual Integrations
APPROVED

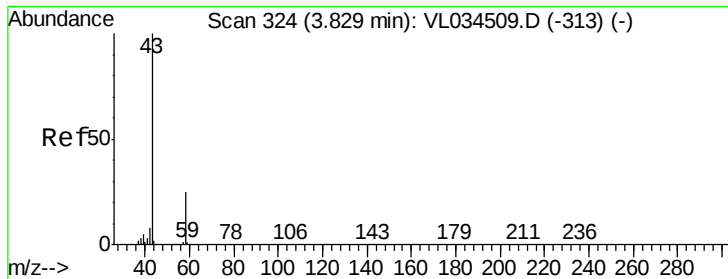
apatel
1/2/2020 10:48:39 AM



#14
Bromoethene
Concen: 1.010 ppbv
RT: 3.72 min Scan# 289
Delta R.T. 0.00 min
Lab File: VL034511.D
Acq: 30 Dec 2019 11:43

Tgt Ion: 108 Resp: 53139
Ion Ratio Lower Upper
108 100
106 109.5 85.2 127.8
79 24.3 17.4 26.2





#15

Acetone

Concen: 1.152 ppbv

RT: 3.83 min Scan# 325

Delta R.T. 0.00 min

Lab File: VL034511.D

Acq: 30 Dec 2019 11:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 43 Resp: 178398

Ion Ratio Lower Upper

43 100

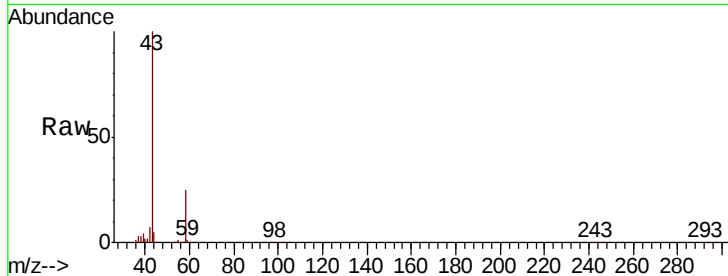
58 27.0 20.4 30.6

Manual Integrations

APPROVED

apatel

1/2/2020 10:48:39 AM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

150000

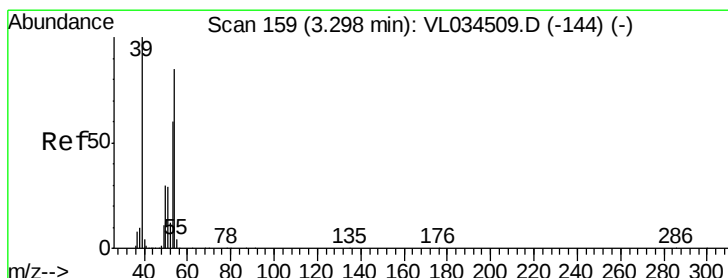
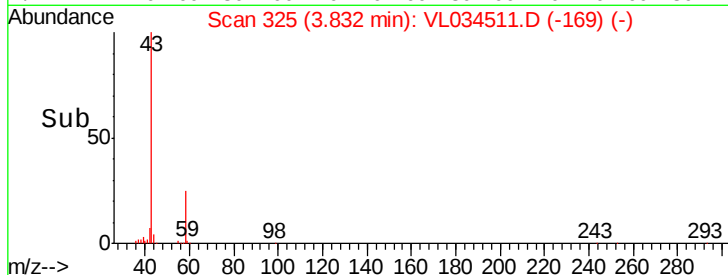
100000

50000

0

3.80 3.85

Time-->



#16

1,3-Butadiene

Concen: 0.976 ppbv

RT: 3.30 min Scan# 160

Delta R.T. 0.00 min

Lab File: VL034511.D

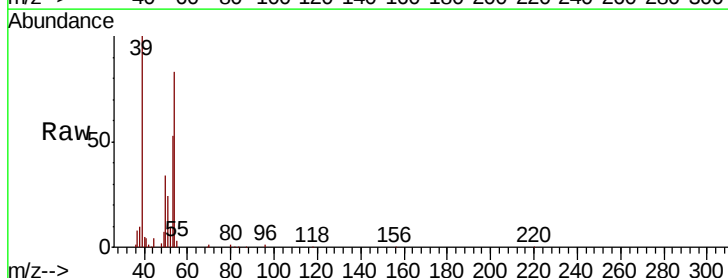
Acq: 30 Dec 2019 11:43

Tgt Ion: 39 Resp: 65887

Ion Ratio Lower Upper

39 100

54 76.9 66.2 99.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

60000

50000

40000

30000

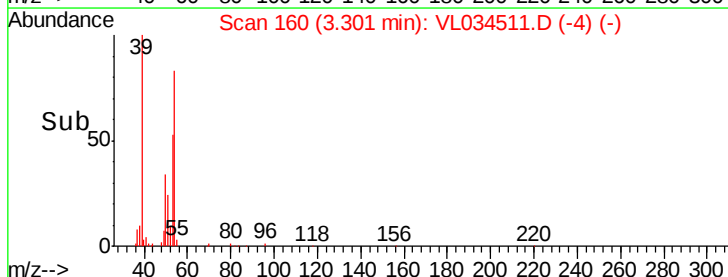
20000

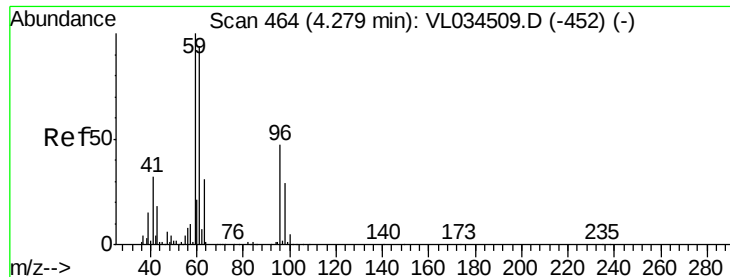
10000

0

3.25 3.30 3.35

Time-->





#17

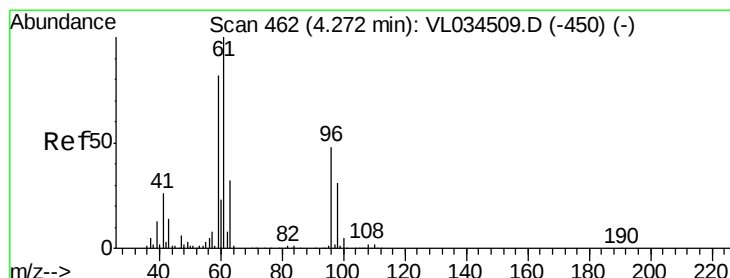
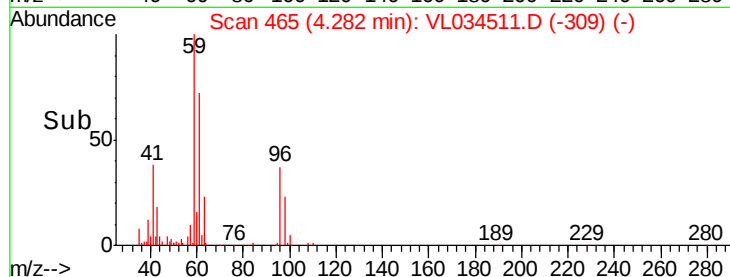
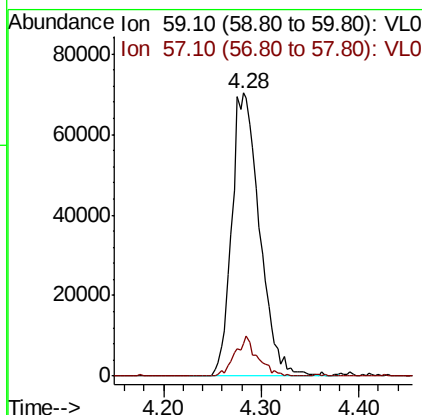
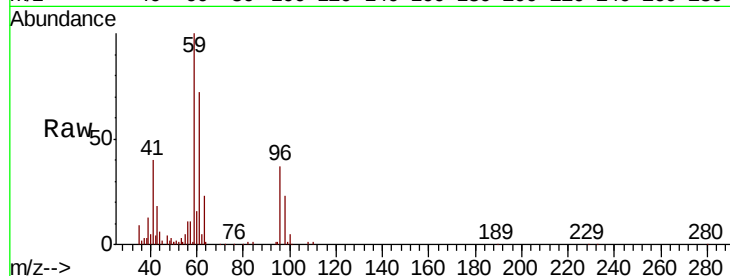
tert-Butyl alcohol
 Concen: 1.078 ppbv m
 RT: 4.28 min Scan# 465
 Delta R.T. 0.00 min
 Lab File: VL034511.D
 Acq: 30 Dec 2019 11:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.6	12.8#

Manual Integrations
 APPROVED

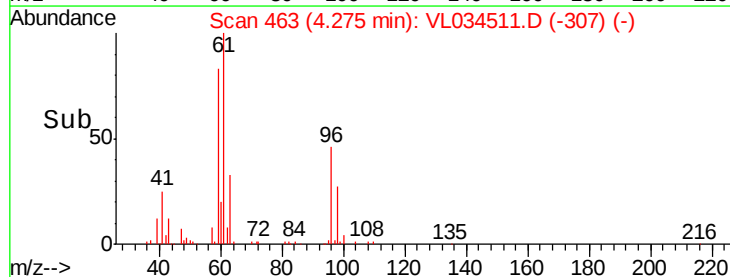
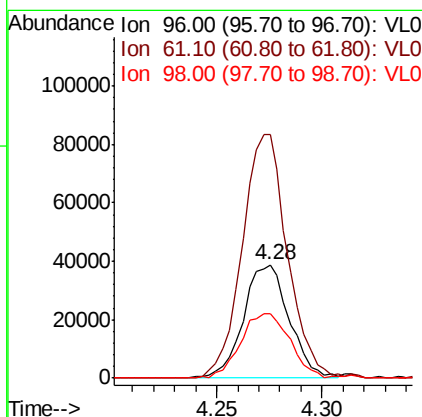
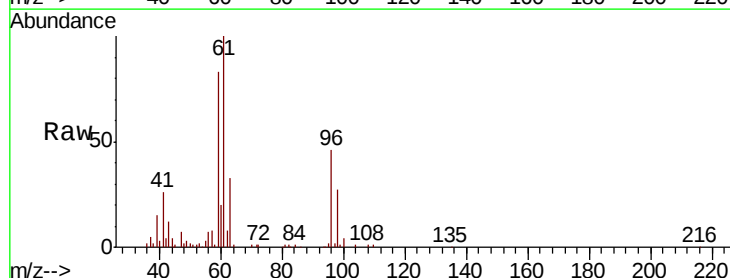
apatel
 1/2/2020 10:48:39 AM

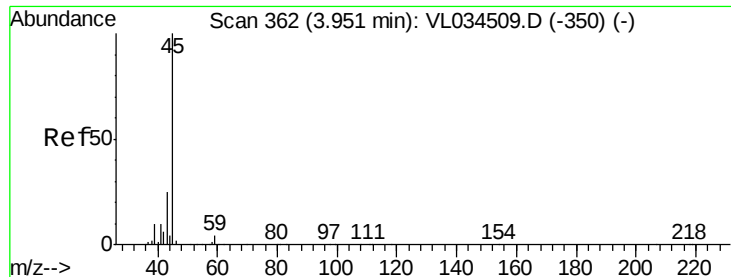


#18

1,1-Dichloroethene
 Concen: 1.031 ppbv
 RT: 4.28 min Scan# 463
 Delta R.T. 0.00 min
 Lab File: VL034511.D
 Acq: 30 Dec 2019 11:43

Tgt Ion	Ratio	Lower	Upper
96	100		
61	215.1	165.9	248.9
98	56.9	51.9	77.9





#19

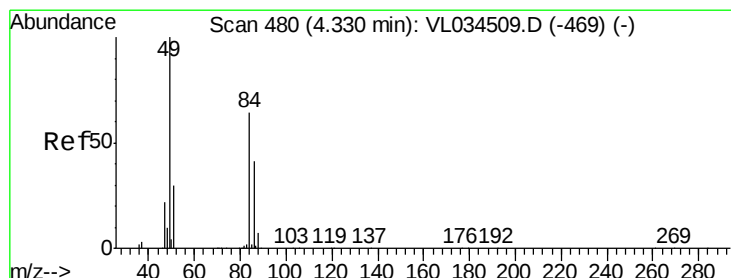
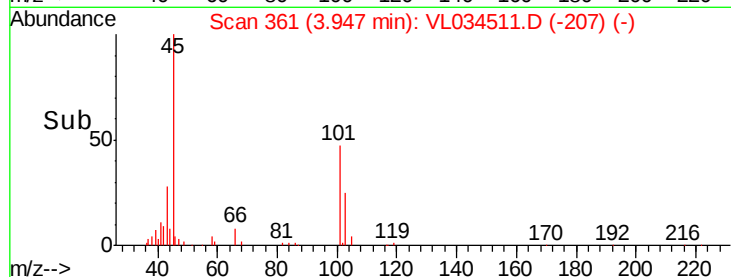
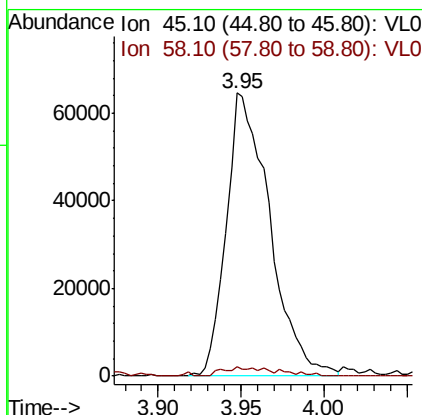
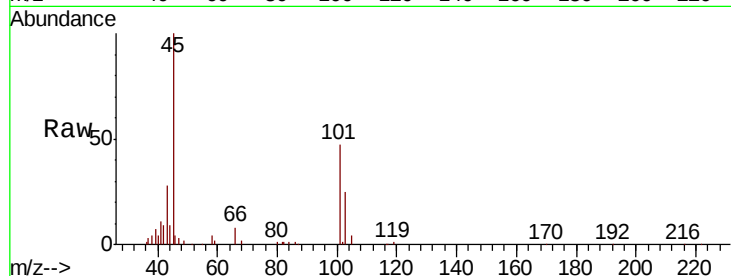
Isopropyl Alcohol
 Concen: 1.183 ppbv
 RT: 3.95 min Scan# 361
 Delta R.T. -0.00 min
 Lab File: VL034511.D
 Acq: 30 Dec 2019 11:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
45	100		
58	4.3	1.4	2.0#

Manual Integrations
 APPROVED

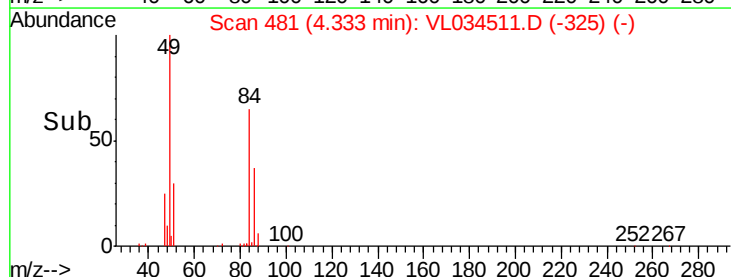
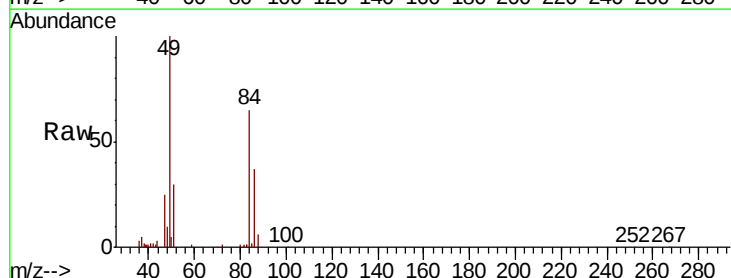
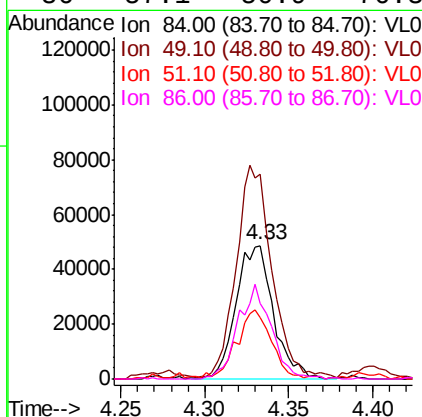
apatel
 1/2/2020 10:48:39 AM

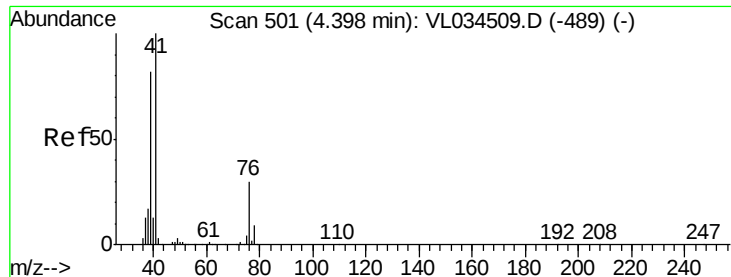


#20

Methylene Chloride
 Concen: 1.373 ppbv m
 RT: 4.33 min Scan# 481
 Delta R.T. 0.00 min
 Lab File: VL034511.D
 Acq: 30 Dec 2019 11:43

Tgt Ion	Ratio	Lower	Upper
84	100		
49	153.5	124.4	186.6
51	46.3	37.0	55.6
86	57.1	50.9	76.3





#21

Allvl Chloride

Concen: 1.027 ppbv m

RT: 4.40 min Scan# 502

Delta R.T. 0.00 min

Lab File: VL034511.D

Acq: 30 Dec 2019 11:43

Instrument :

MSVOA_L

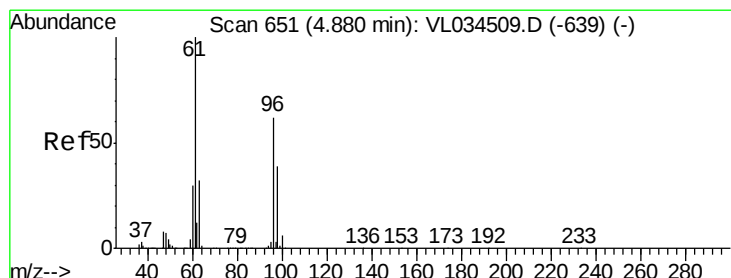
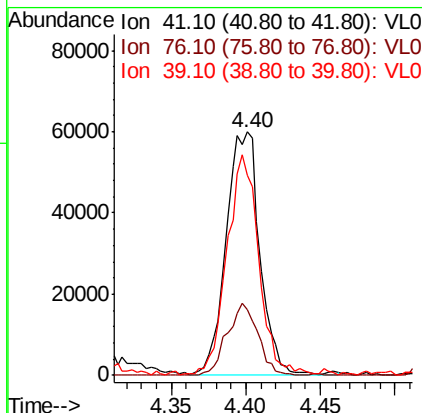
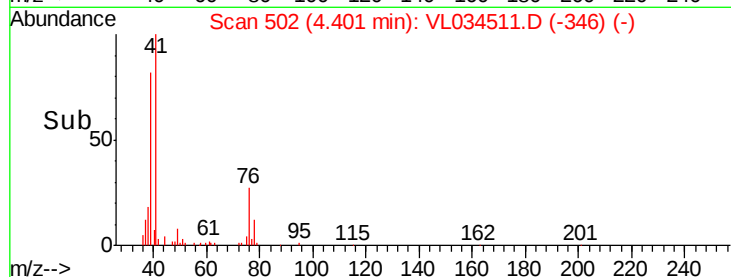
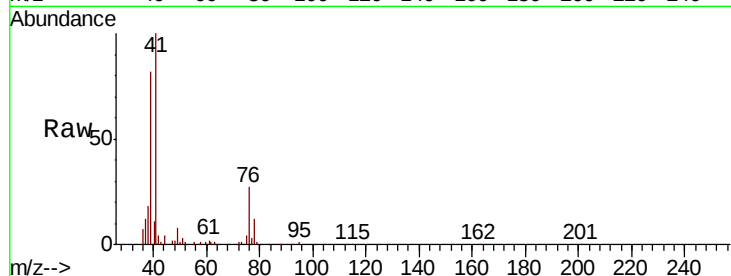
ClientSampleId :

VSTDIC001

Tot Ion:	41	Resp:	95333
Ion Ratio	Lower	Upper	
41	100		
76	0.0	24.2	36.4#
39	0.0	65.8	98.6#

Manual Integrations
APPROVED

apatel
1/2/2020 10:48:39 AM



#22

trans-1,2-Dichloroethene

Concen: 1.029 ppbv

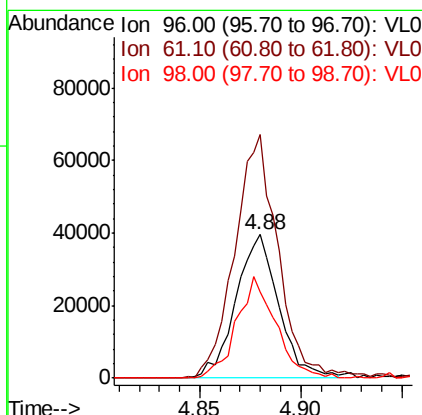
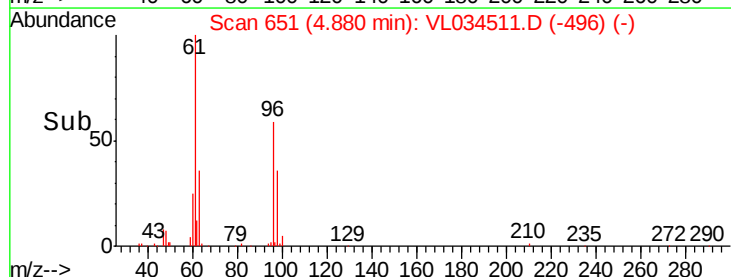
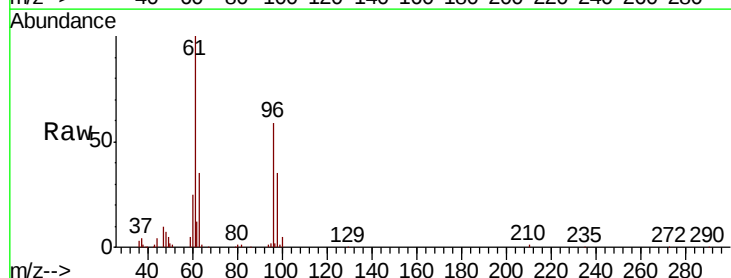
RT: 4.88 min Scan# 651

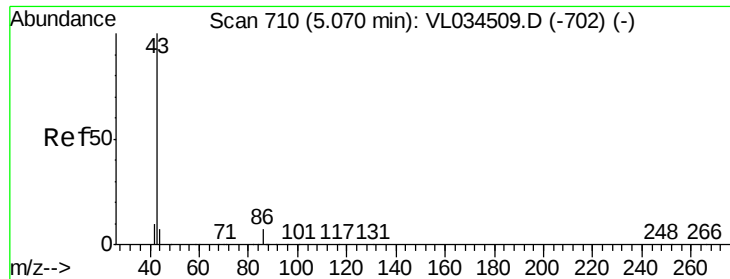
Delta R.T. -0.00 min

Lab File: VL034511.D

Acq: 30 Dec 2019 11:43

Tgt Ion:	96	Resp:	58719
Ion Ratio	Lower	Upper	
96	100		
61	168.2	128.4	192.6
98	59.9	50.6	75.8





#23

Vinyl Acetate

Concen: 0.903 ppbv

RT: 5.07 min Scan# 709

Delta R.T. -0.00 min

Lab File: VL034511.D

Acq: 30 Dec 2019 11:43

Instrument :

MSVOA_L

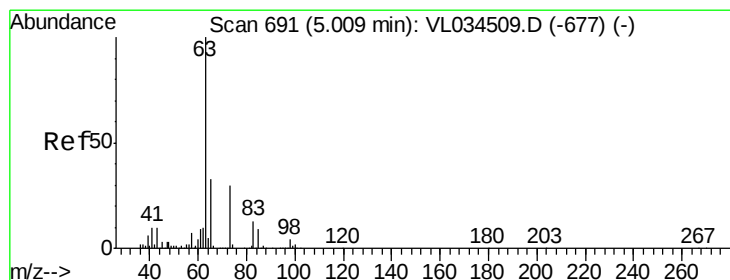
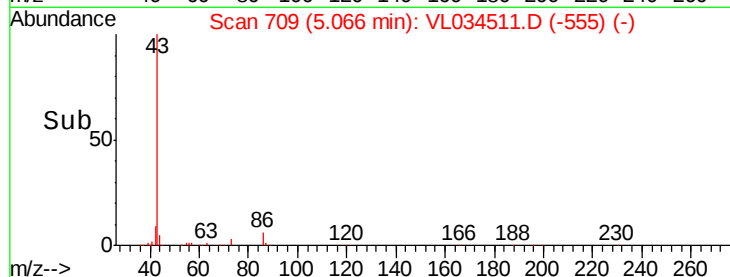
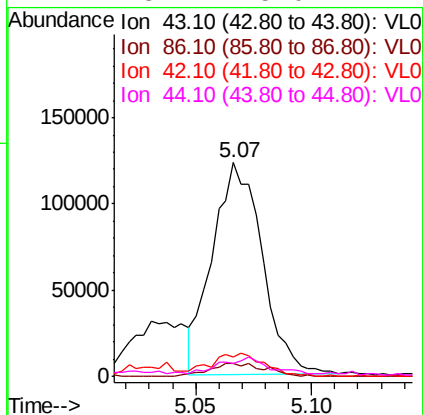
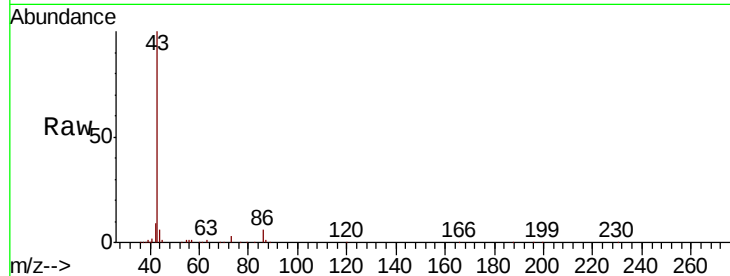
ClientSampleId :

VSTDIC001

Tot Ion	43	Resp	182751
Ion Ratio	Lower	Upper	
43	100		
86	6.3	5.4	8.2
42	9.2	8.9	13.3
44	5.4	5.0	7.4

Manual Integrations
APPROVED

apatel
1/2/2020 10:48:39 AM



#24

1,1-Dichloroethane

Concen: 1.016 ppbv

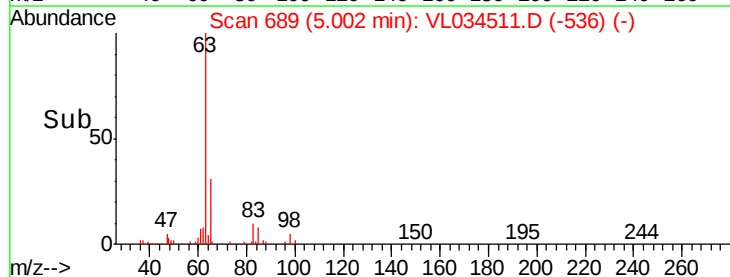
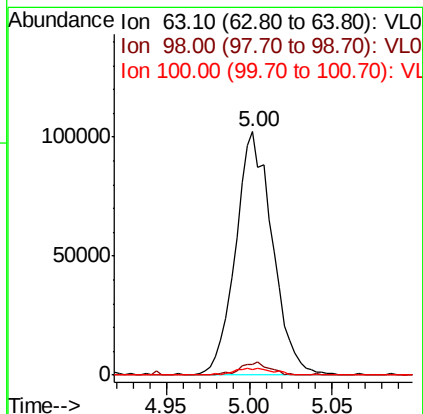
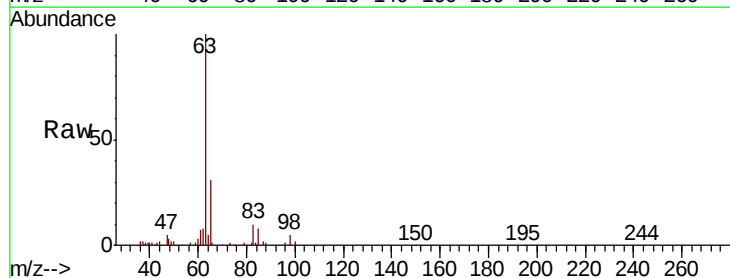
RT: 5.00 min Scan# 689

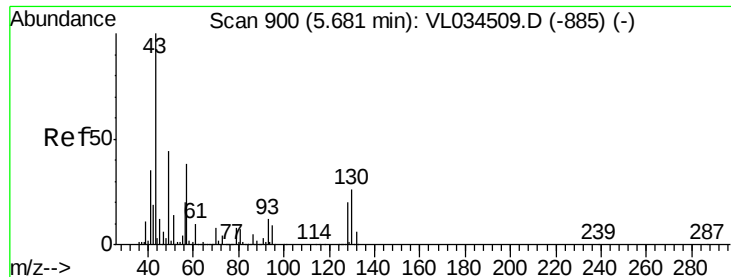
Delta R.T. -0.01 min

Lab File: VL034511.D

Acq: 30 Dec 2019 11:43

Tgt Ion	63	Resp	157922
Ion Ratio	Lower	Upper	
63	100		
98	4.5	2.1	6.3
100	2.0	1.1	3.3





#25

Ethyl Acetate

Concen: 0.945 ppbv

RT: 5.68 min Scan# 900

Delta R.T. -0.00 min

Lab File: VL034511.D

Acq: 30 Dec 2019 11:43

Instrument :

MSVOA_L

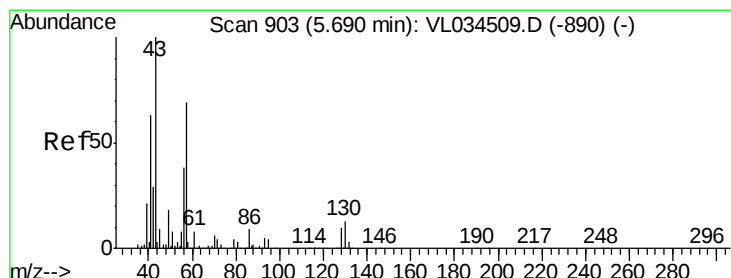
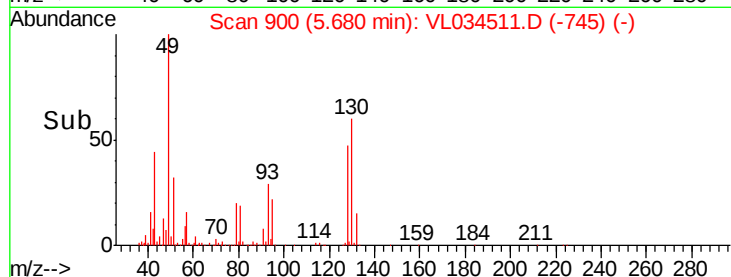
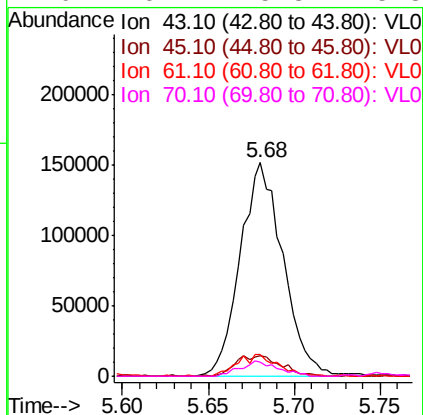
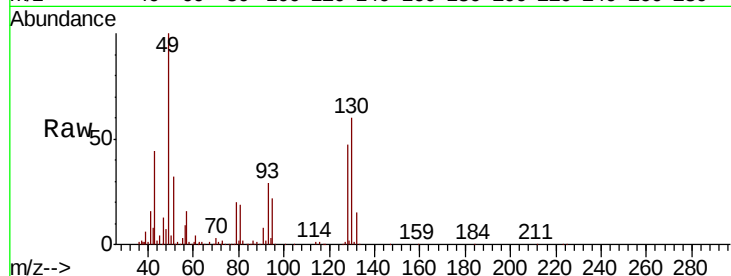
ClientSampleId :

VSTDIC001

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.5	8.3	12.5	
61	10.2	7.8	11.6	
70	6.4	5.8	8.8	

Manual Integrations
APPROVED

apatel
1/2/2020 10:48:39 AM



#26

Hexane

Concen: 0.932 ppbv

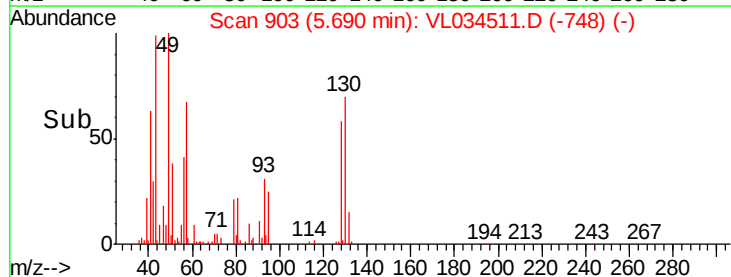
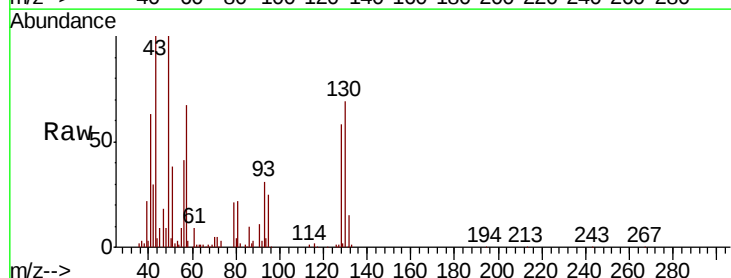
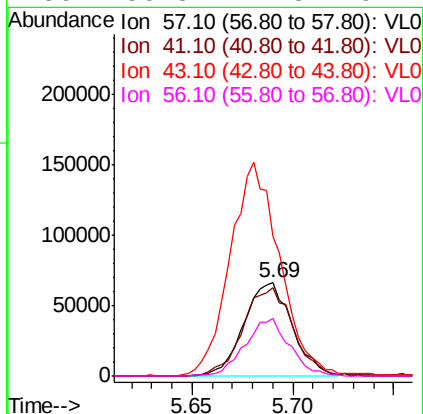
RT: 5.69 min Scan# 903

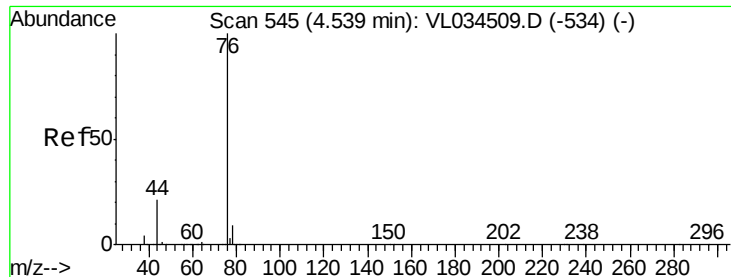
Delta R.T. -0.00 min

Lab File: VL034511.D

Acq: 30 Dec 2019 11:43

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	98.5	75.3	112.9	
43	236.2	189.4	284.2	
56	56.8	42.8	64.2	





#27

Carbon Disulfide

Concen: 1.017 ppbv

RT: 4.54 min Scan# 545

Delta R.T. -0.00 min

Lab File: VL034511.D

Acq: 30 Dec 2019 11:43

Instrument :

MSVOA_L

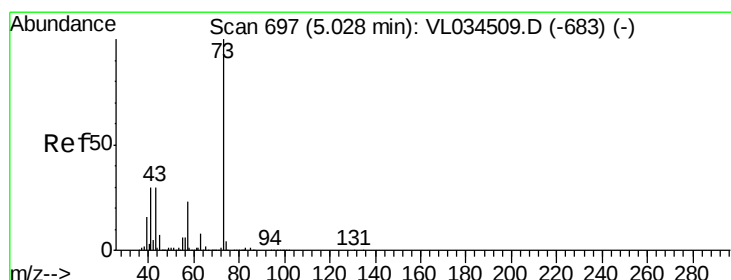
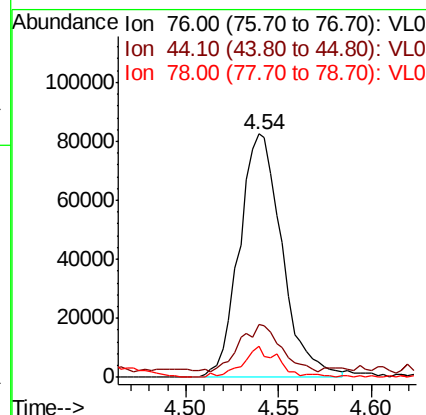
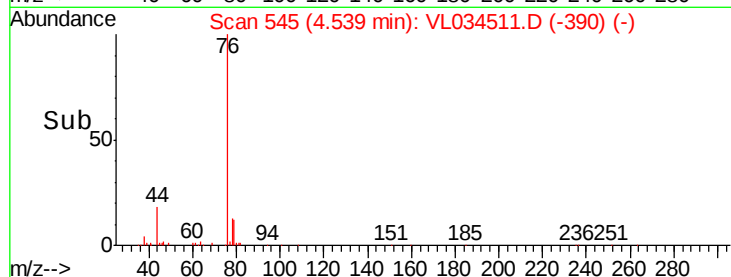
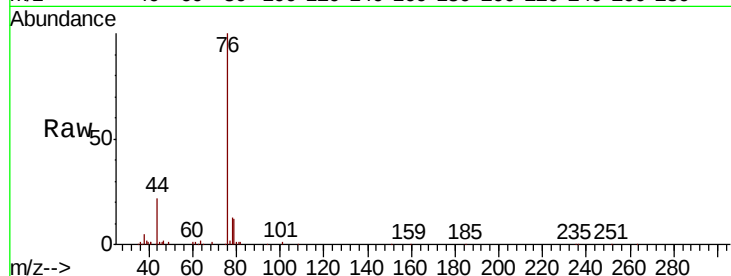
ClientSampleId :

VSTDIC001

Tot Ion:	76	Resp:	131565
Ion Ratio	Lower	Upper	
76	100		
44	22.7	16.6	25.0
78	10.9	7.4	11.0

Manual Integrations
APPROVED

apatel
1/2/2020 10:48:39 AM



#28

Methyl tert-Butyl Ether

Concen: 0.911 ppbv

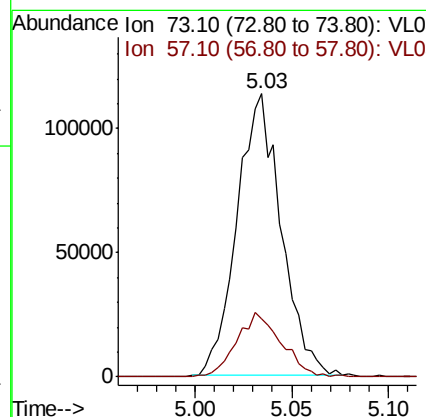
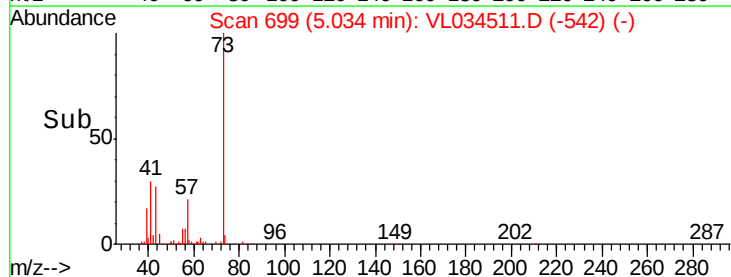
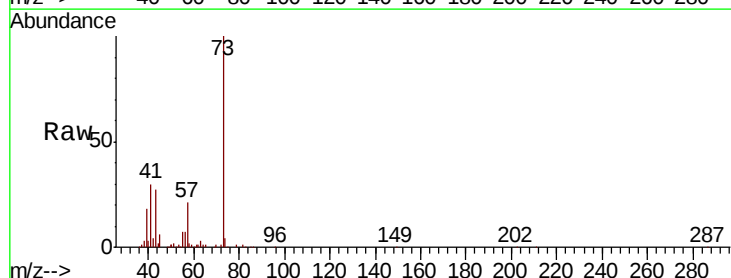
RT: 5.03 min Scan# 699

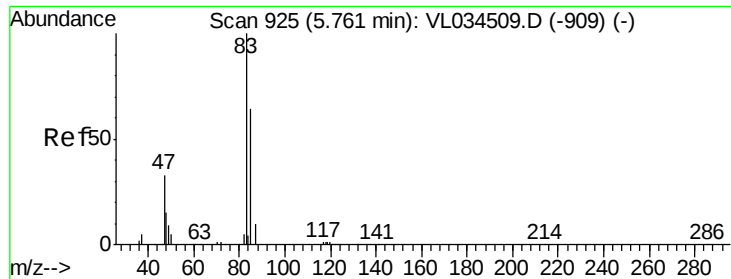
Delta R.T. 0.01 min

Lab File: VL034511.D

Acq: 30 Dec 2019 11:43

Tgt Ion:	73	Resp:	179448
Ion Ratio	Lower	Upper	
73	100		
57	23.2	18.2	27.2





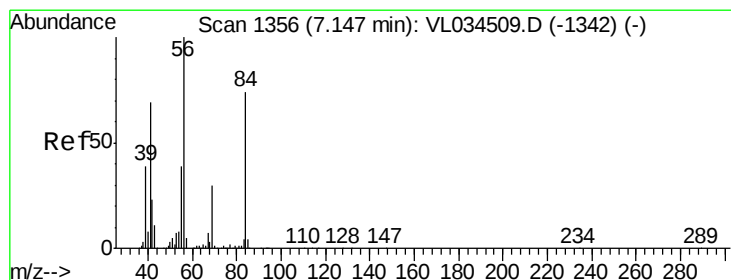
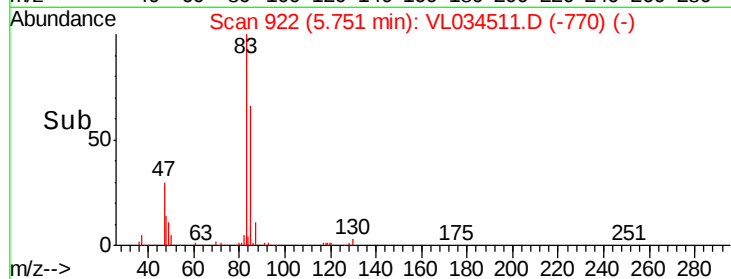
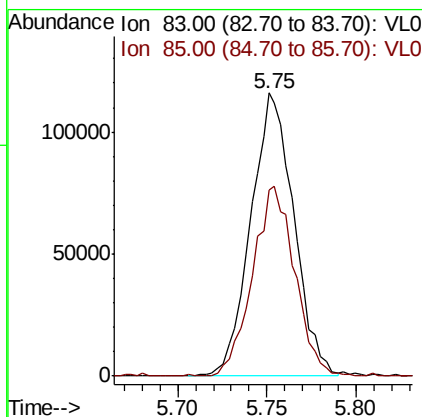
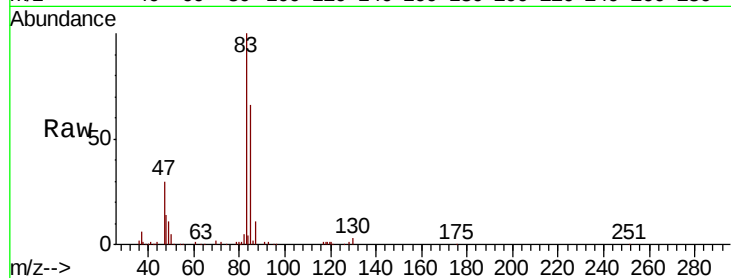
#29
Chloroform
Concen: 1.017 ppbv
RT: 5.75 min Scan# 922
Delta R.T. -0.01 min
Lab File: VL034511.D
Acq: 30 Dec 2019 11:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
83	100		
85	65.1	51.0	76.6

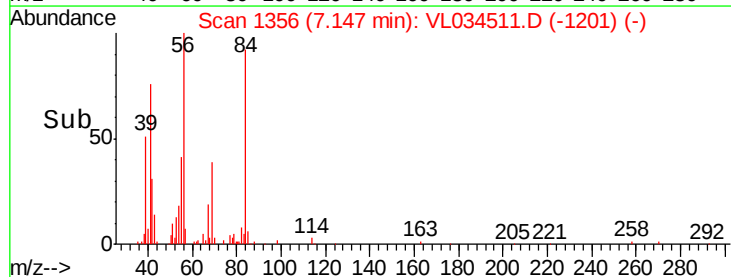
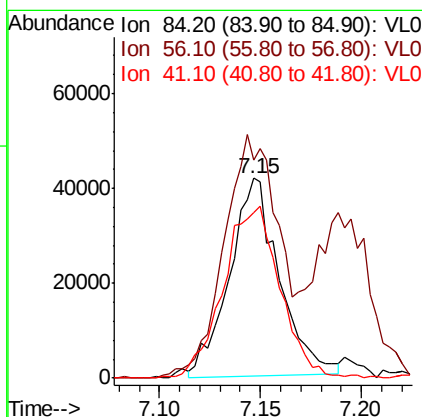
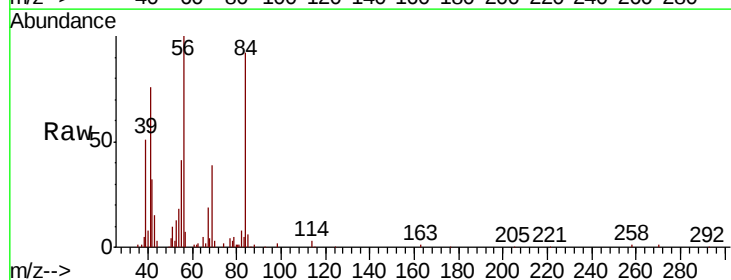
Manual Integrations
APPROVED

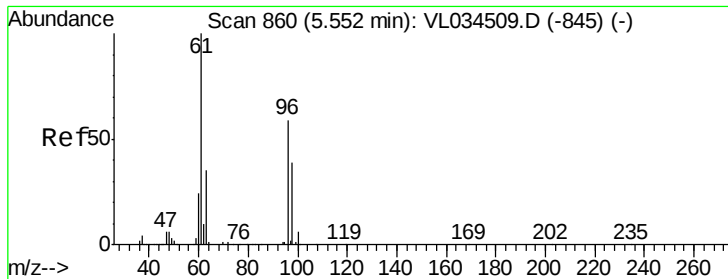
apatel
1/2/2020 10:48:39 AM



#30
Cyclohexane
Concen: 0.803 ppbv
RT: 7.15 min Scan# 1356
Delta R.T. -0.00 min
Lab File: VL034511.D
Acq: 30 Dec 2019 11:43

Tgt Ion	Ratio	Lower	Upper
84	100		
56	137.2	112.7	169.1
41	98.8	73.0	109.4





#31

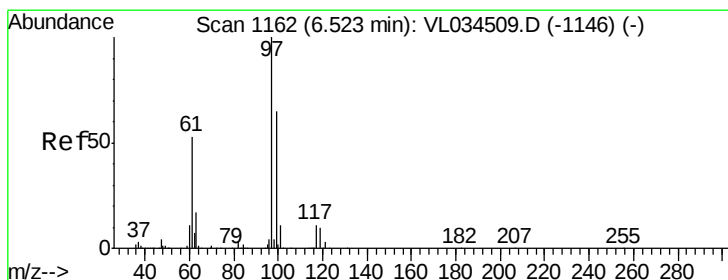
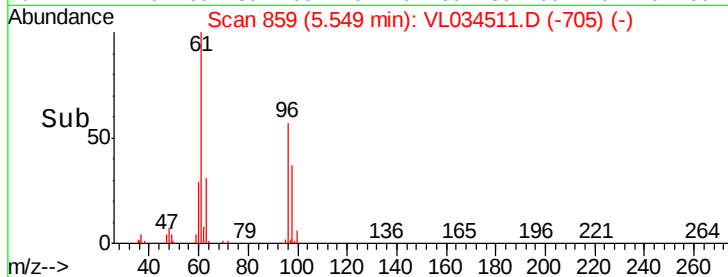
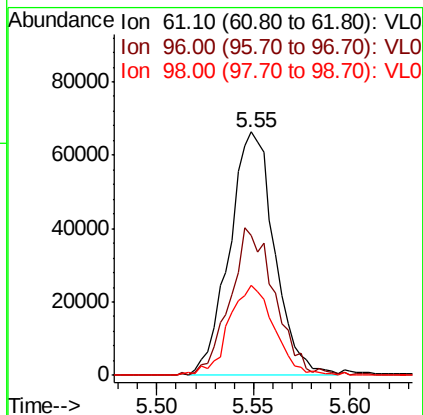
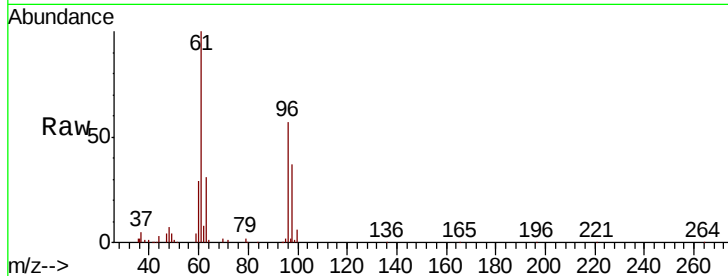
cis-1,2-Dichloroethene
 Concen: 0.878 ppbv
 RT: 5.55 min Scan# 859
 Delta R.T. -0.00 min
 Lab File: VL034511.D
 Acq: 30 Dec 2019 11:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion:	61	Resp:	107750
Ion	Ratio	Lower	Upper
61	100		
96	56.9	47.1	70.7
98	36.9	31.0	46.6

Manual Integrations
 APPROVED

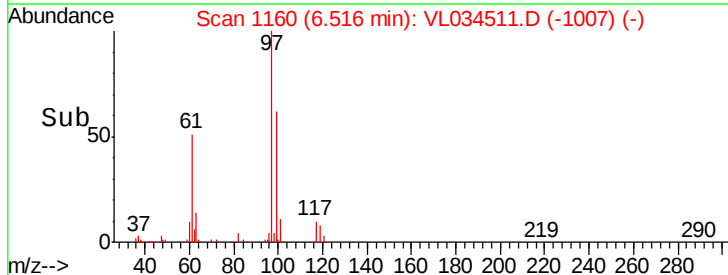
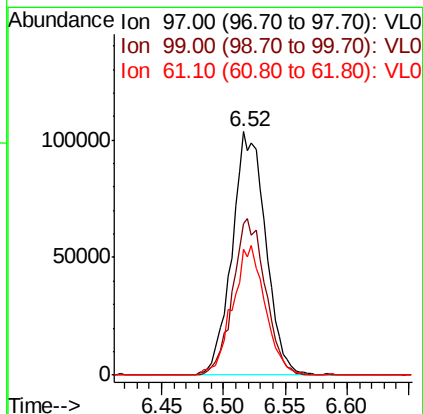
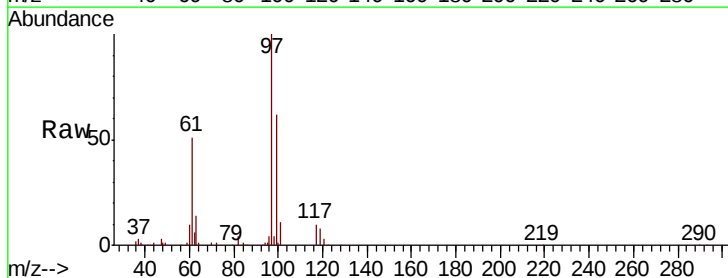
apatel
 1/2/2020 10:48:39 AM

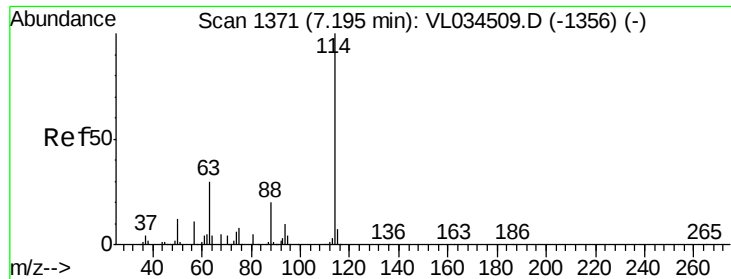


#32

1,1,1-Trichloroethane
 Concen: 1.079 ppbv m
 RT: 6.52 min Scan# 1160
 Delta R.T. -0.01 min
 Lab File: VL034511.D
 Acq: 30 Dec 2019 11:43

Tgt Ion:	97	Resp:	194591
Ion	Ratio	Lower	Upper
97	100		
99	62.8	51.7	77.5
61	51.8	42.9	64.3





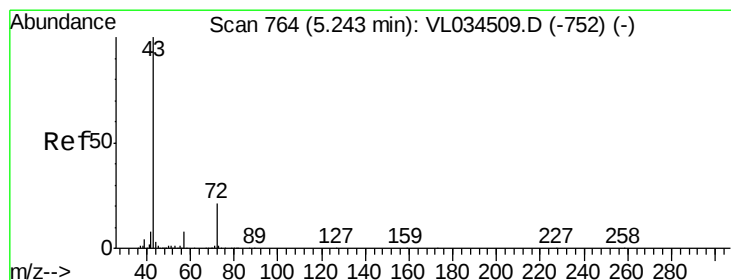
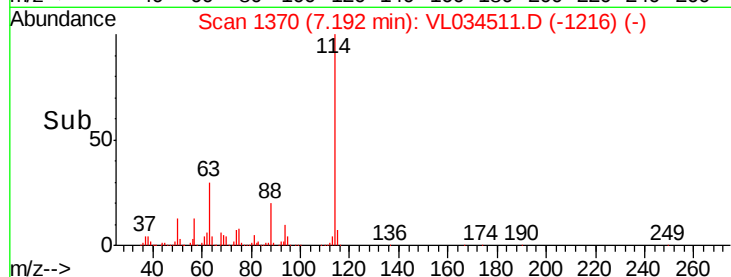
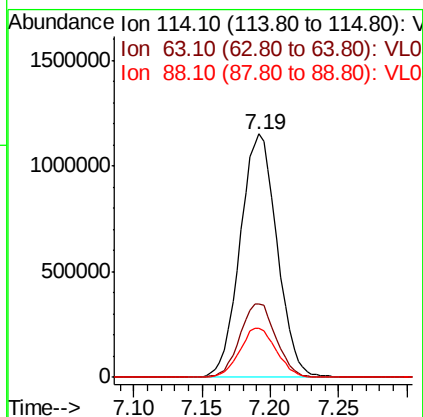
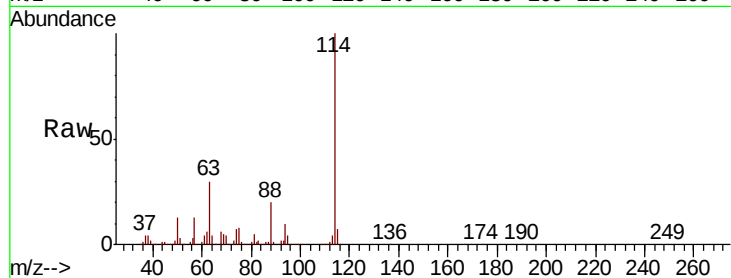
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. -0.00 min
 Lab File: VL034511.D
 Acq: 30 Dec 2019 11:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
114	100		
63	29.7	24.1	36.1
88	20.0	15.7	23.5

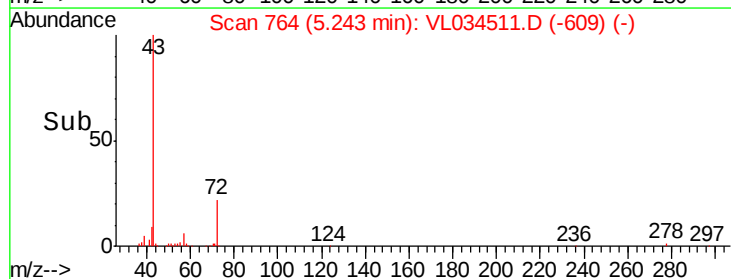
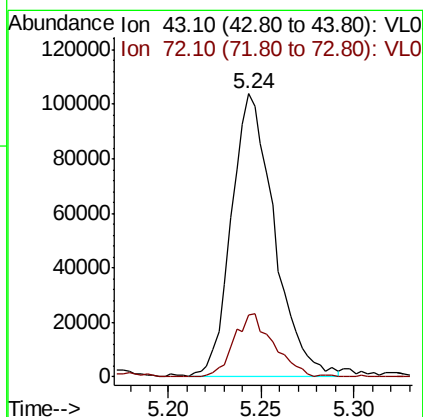
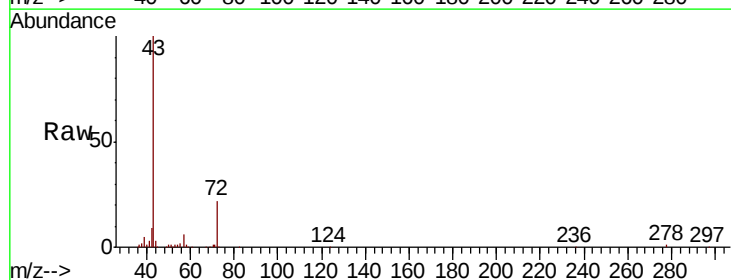
Manual Integrations
 APPROVED

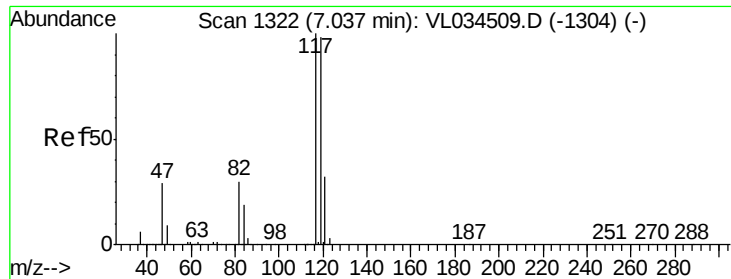
apatel
 1/2/2020 10:48:39 AM



#34
 2-Butanone
 Concen: 0.935 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. -0.00 min
 Lab File: VL034511.D
 Acq: 30 Dec 2019 11:43

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.0	17.0	25.4





#35

Carbon Tetrachloride

Concen: 1.099 ppbv

RT: 7.03 min Scan# 1320

Delta R.T. -0.01 min

Lab File: VL034511.D

Acq: 30 Dec 2019 11:43

Instrument :

MSVOA_L

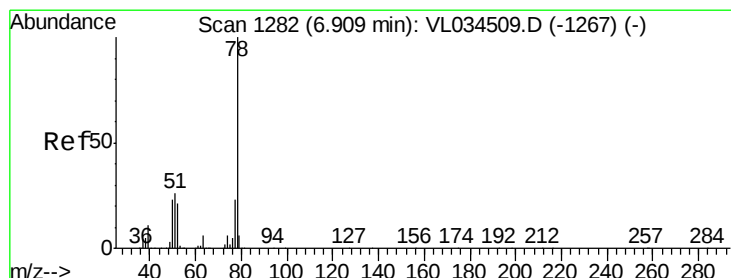
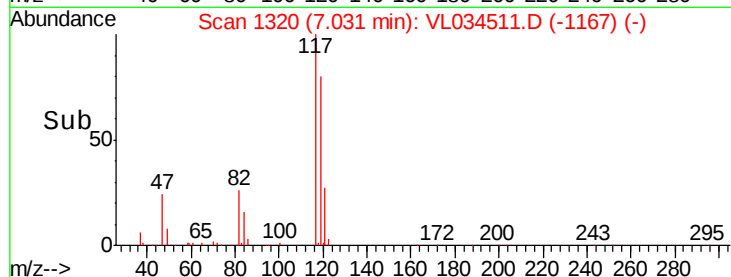
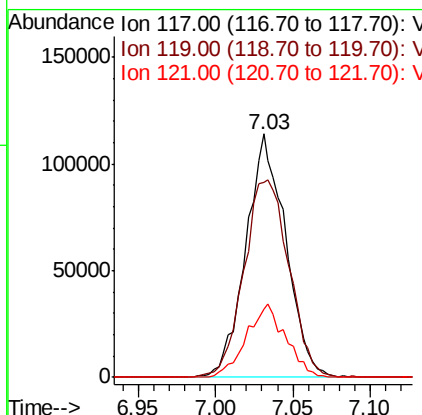
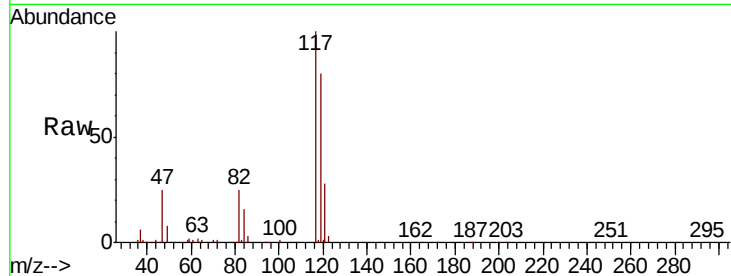
ClientSampleId :

VSTDIC001

Tot Ion:	117	Resp:	204243
Ion Ratio	Lower	Upper	
117	100		
119	80.0	78.7	118.1
121	27.8	25.9	38.9

Manual Integrations
APPROVED

apatel
1/2/2020 10:48:39 AM



#36

Benzene

Concen: 0.913 ppbv

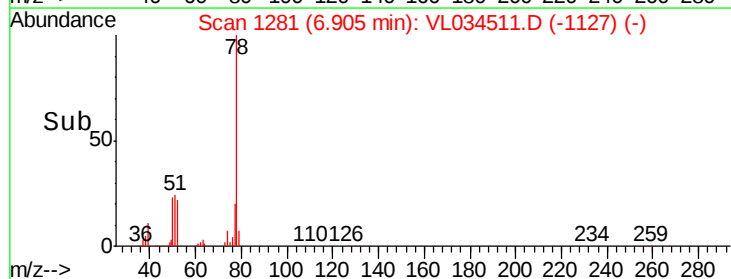
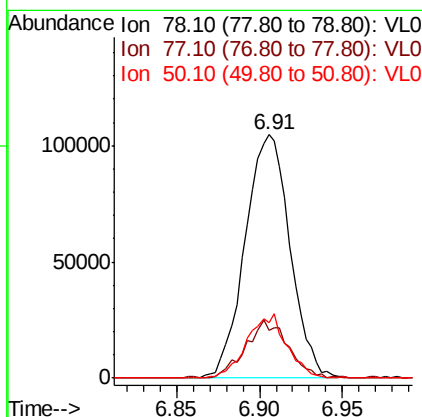
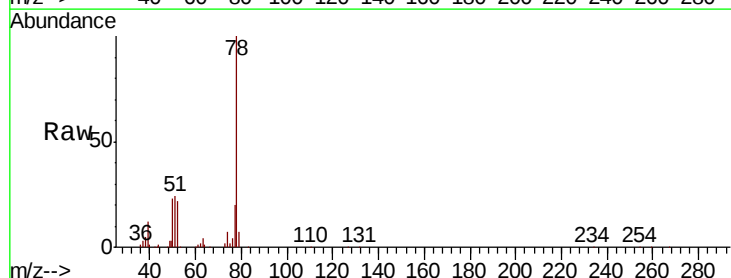
RT: 6.91 min Scan# 1281

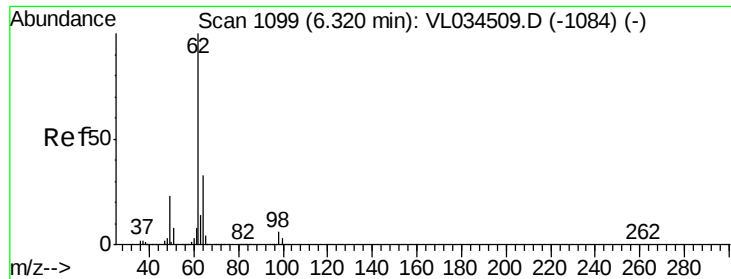
Delta R.T. -0.00 min

Lab File: VL034511.D

Acq: 30 Dec 2019 11:43

Tgt Ion:	78	Resp:	197234
Ion Ratio	Lower	Upper	
78	100		
77	19.1	18.6	28.0
50	22.7	18.8	28.2





#37

1,2-Dichloroethane

Concen: 1.027 ppbv

RT: 6.31 min Scan# 1096

Delta R.T. -0.01 min

Lab File: VL034511.D

Acq: 30 Dec 2019 11:43

Instrument :

MSVOA_L

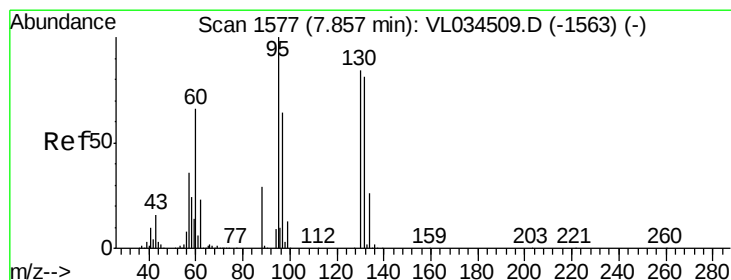
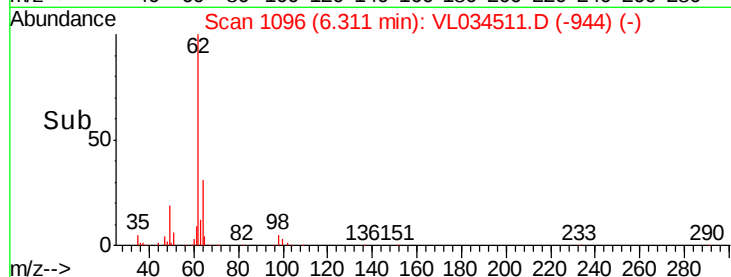
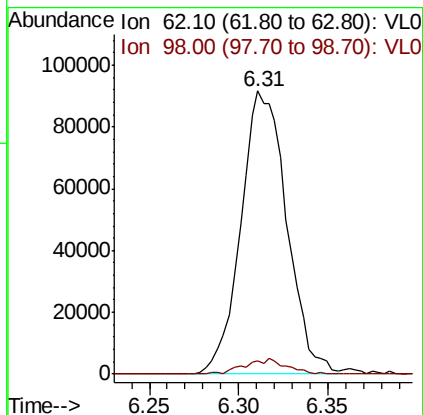
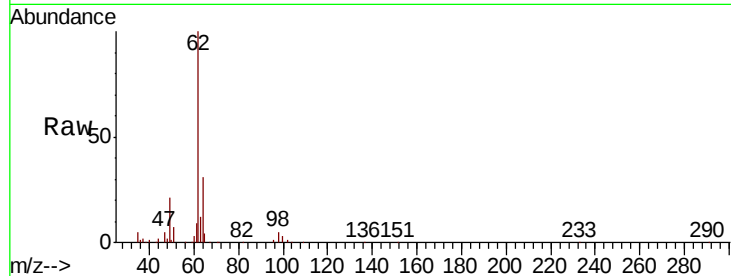
ClientSampleId :

VSTDIC001

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.0	3.8	5.6

Manual Integrations
APPROVED

apatel
1/2/2020 10:48:39 AM



#38

Trichloroethene

Concen: 0.887 ppbv

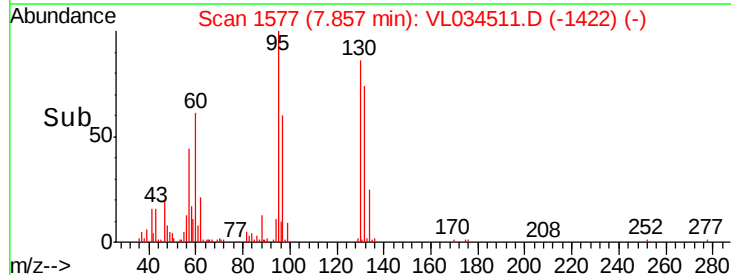
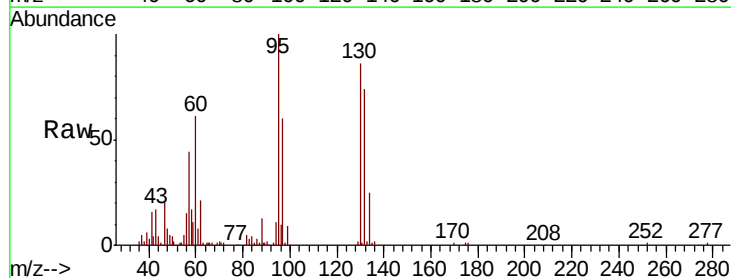
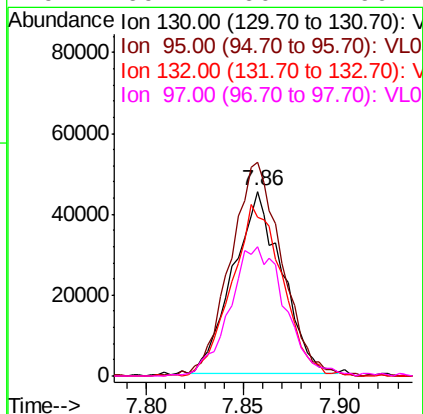
RT: 7.86 min Scan# 1577

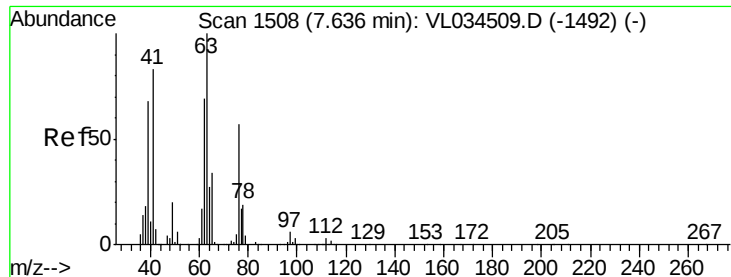
Delta R.T. -0.00 min

Lab File: VL034511.D

Acq: 30 Dec 2019 11:43

Tgt Ion	Ratio	Lower	Upper
130	100		
95	116.7	94.2	141.2
132	89.3	76.1	114.1
97	69.4	60.2	90.2





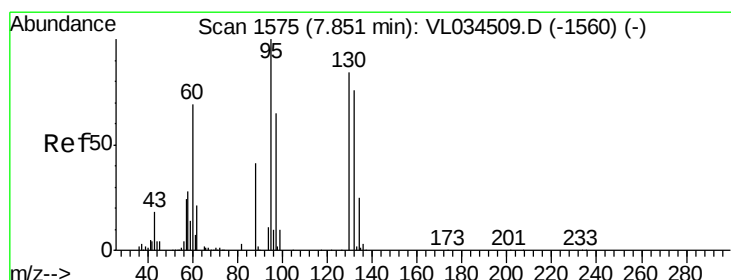
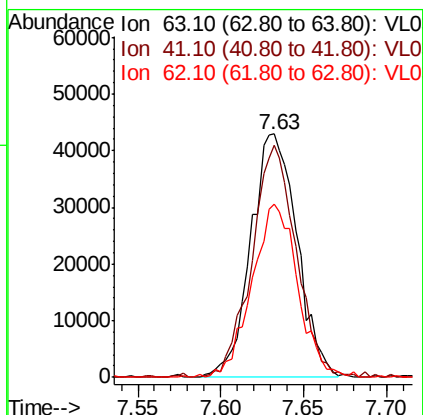
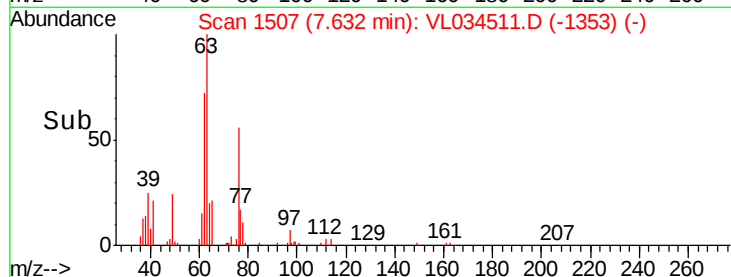
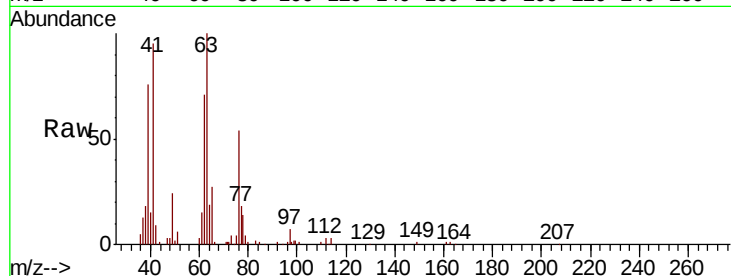
#39
 1,2-Dichloropropane
 Concen: 0.998 ppbv
 RT: 7.63 min Scan# 1507
 Delta R.T. -0.00 min
 Lab File: VL034511.D
 Acq: 30 Dec 2019 11:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
63	100		
41	94.7	66.1	99.1
62	71.2	54.9	82.3

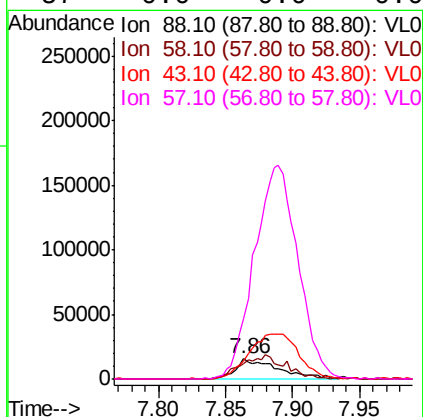
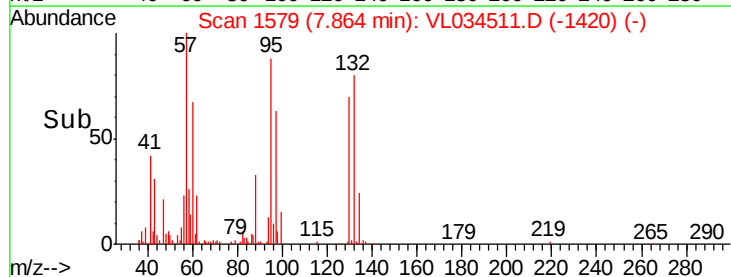
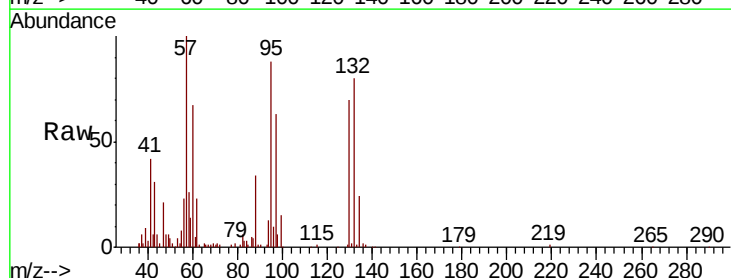
Manual Integrations
 APPROVED

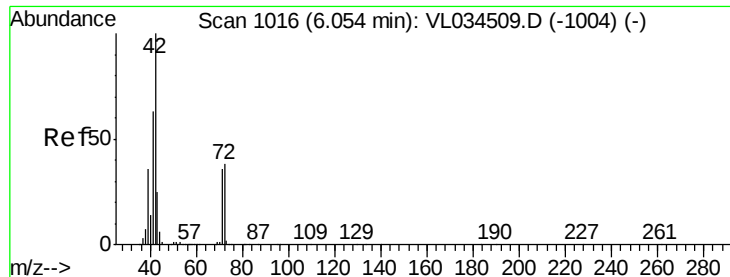
apatel
 1/2/2020 10:48:39 AM



#40
 1,4-Dioxane
 Concen: 0.948 ppbv m
 RT: 7.86 min Scan# 1579
 Delta R.T. 0.01 min
 Lab File: VL034511.D
 Acq: 30 Dec 2019 11:43

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	107.9	161.9#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





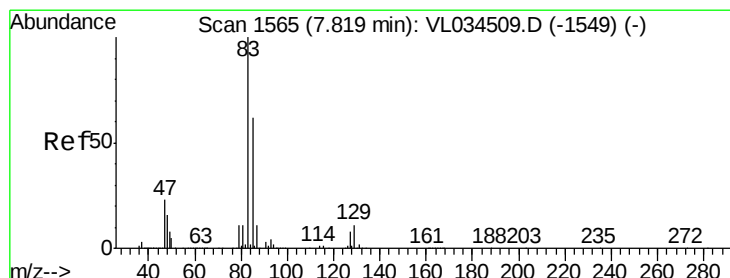
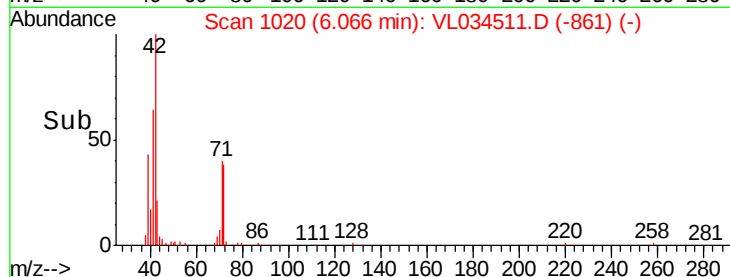
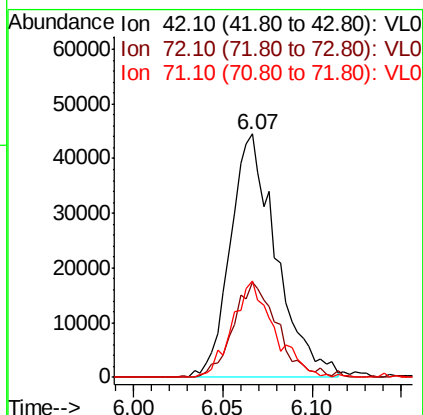
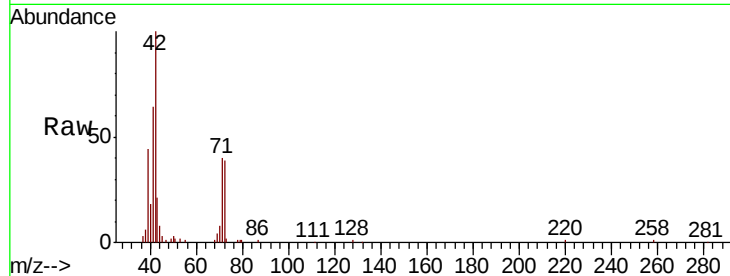
#41
Tetrahydrofuran
Concen: 0.804 ppbv
RT: 6.07 min Scan# 1020
Delta R.T. 0.01 min
Lab File: VL034511.D
Acq: 30 Dec 2019 11:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion:	42	Resp:	80166
Ion Ratio	Lower	Upper	
42	100		
72	37.9	30.9	46.3
71	36.4	28.9	43.3

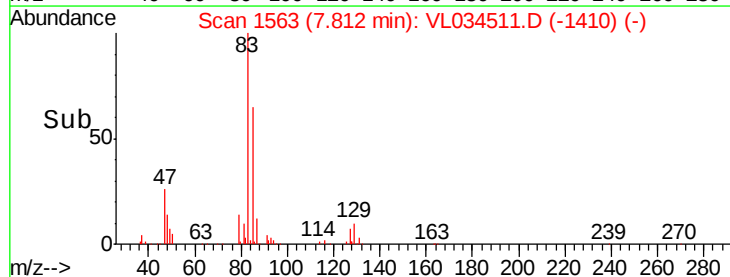
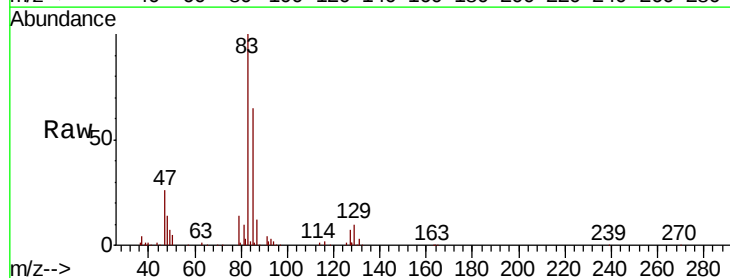
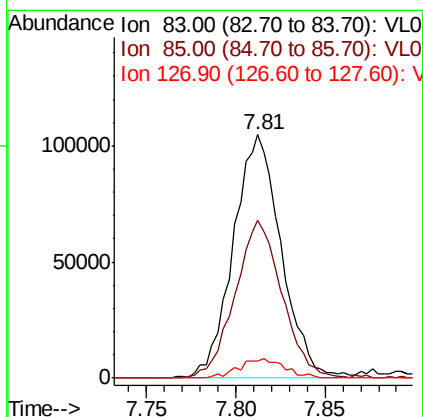
Manual Integrations
APPROVED

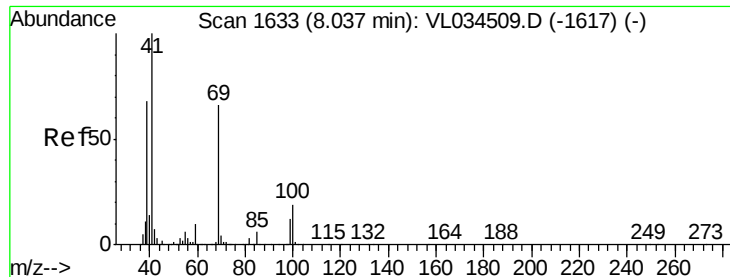
apatel
1/2/2020 10:48:39 AM



#42
Bromodichloromethane
Concen: 0.962 ppbv
RT: 7.81 min Scan# 1563
Delta R.T. -0.01 min
Lab File: VL034511.D
Acq: 30 Dec 2019 11:43

Tgt Ion:	83	Resp:	193137
Ion Ratio	Lower	Upper	
83	100		
85	64.3	49.4	74.2
127	7.1	6.2	9.4





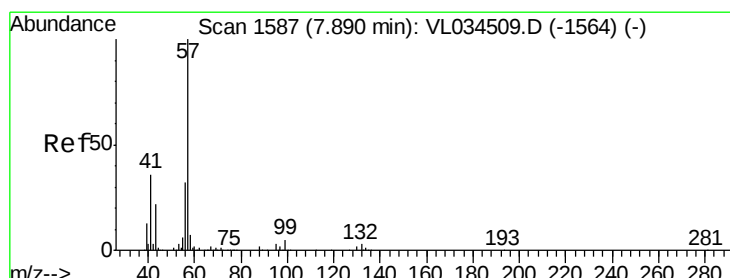
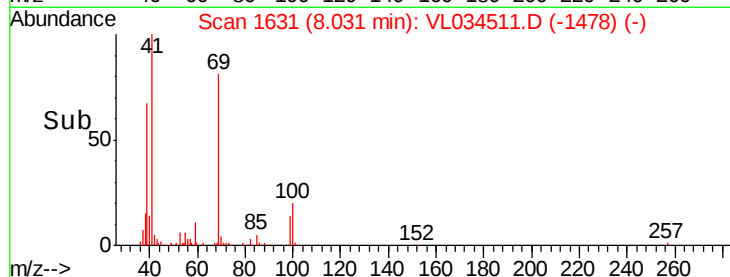
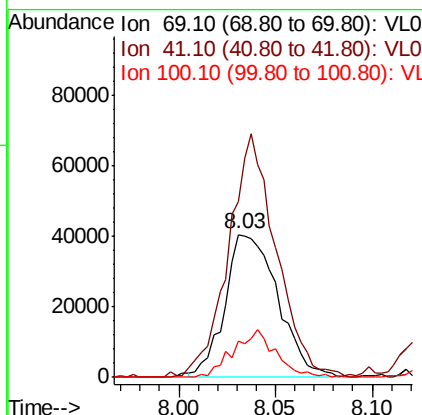
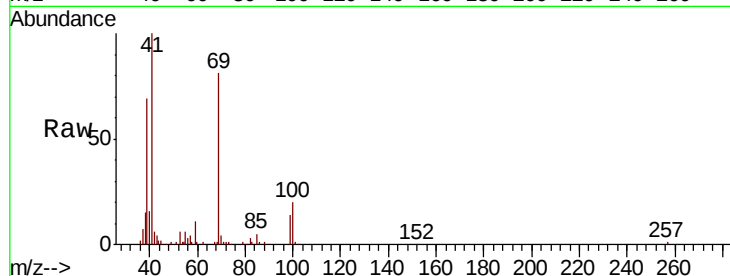
#43
Methvl Methacrilate
Concen: 0.862 ppbv
RT: 8.03 min Scan# 1631
Delta R.T. -0.01 min
Lab File: VL034511.D
Acq: 30 Dec 2019 11:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
69	100		
41	154.1	124.0	186.0
100	26.7	23.1	34.7

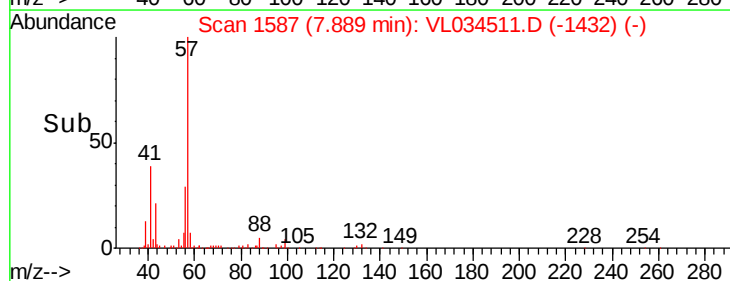
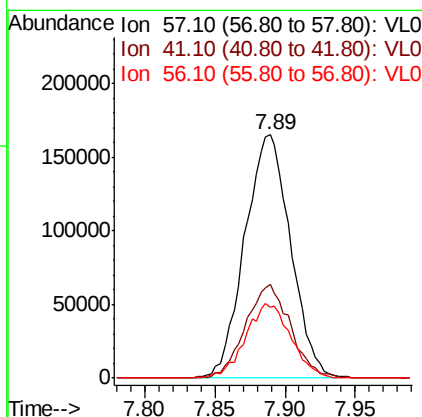
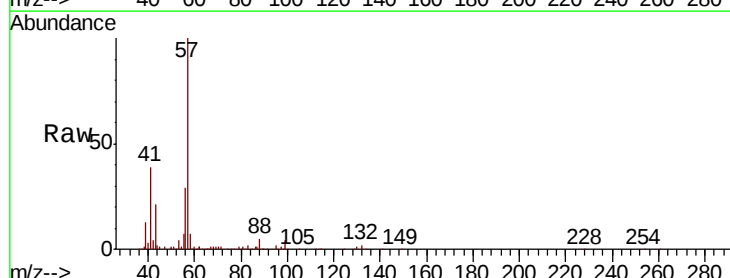
Manual Integrations
APPROVED

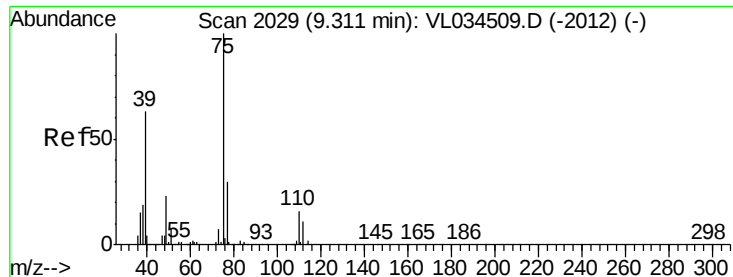
apatel
1/2/2020 10:48:39 AM



#44
2,2,4-Trimethylpentane
Concen: 0.948 ppbv
RT: 7.89 min Scan# 1587
Delta R.T. -0.00 min
Lab File: VL034511.D
Acq: 30 Dec 2019 11:43

Tgt Ion	Ratio	Lower	Upper
57	100		
41	38.1	29.0	43.4
56	30.4	24.9	37.3





#45

t-1,3-Dichloropropene

Concen: 0.764 ppbv

RT: 9.31 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VL034511.D

Acq: 30 Dec 2019 11:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 75 Resp: 87747

Ion Ratio Lower Upper

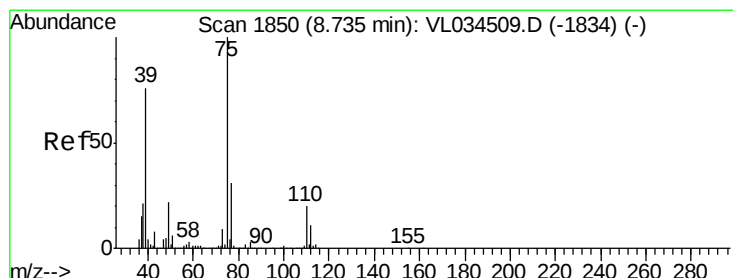
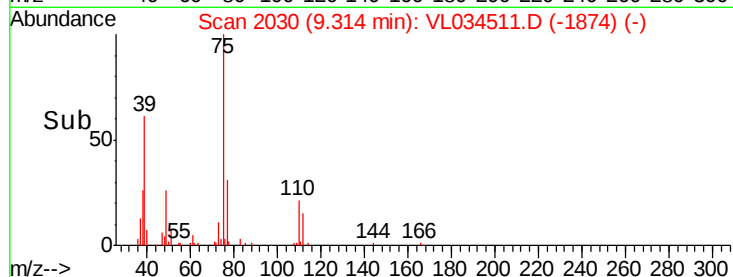
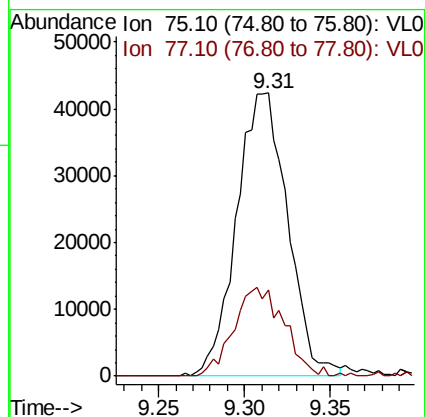
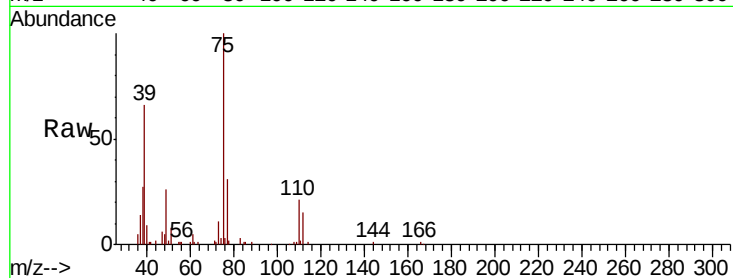
75 100

77 32.2 24.2 36.2

Manual Integrations
APPROVED

apatel

1/2/2020 10:48:39 AM



#46

cis-1,3-Dichloropropene

Concen: 0.812 ppbv

RT: 8.73 min Scan# 1849

Delta R.T. -0.00 min

Lab File: VL034511.D

Acq: 30 Dec 2019 11:43

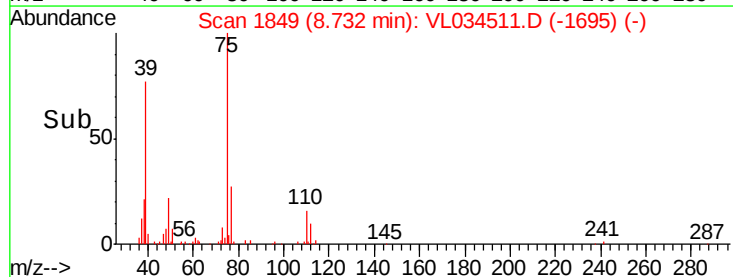
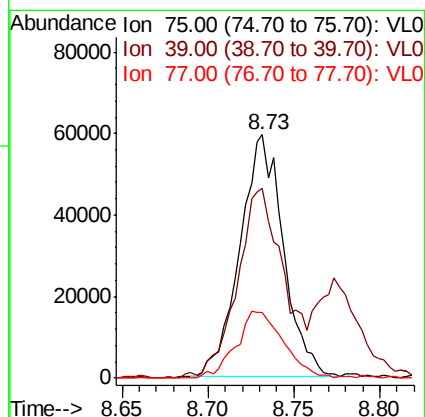
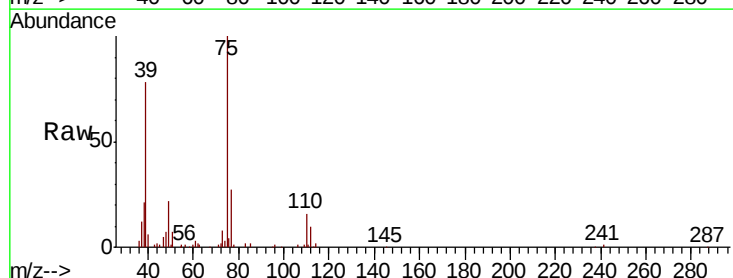
Tgt Ion: 75 Resp: 104775

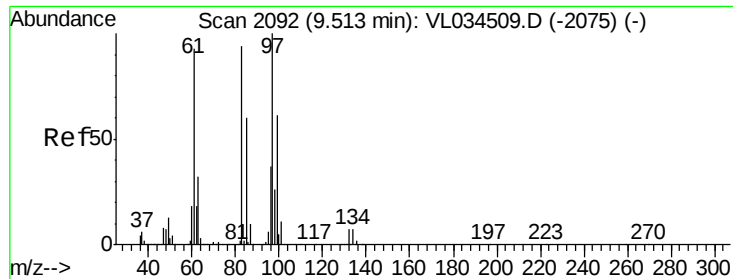
Ion Ratio Lower Upper

75 100

39 76.0 60.5 90.7

77 27.2 24.8 37.2





#47

1,1,2-Trichloroethane

Concen: 0.967 ppbv m

RT: 9.50 min Scan# 2089

Delta R.T. -0.01 min

Lab File: VL034511.D

Acq: 30 Dec 2019 11:43

Instrument :

MSVOA_L

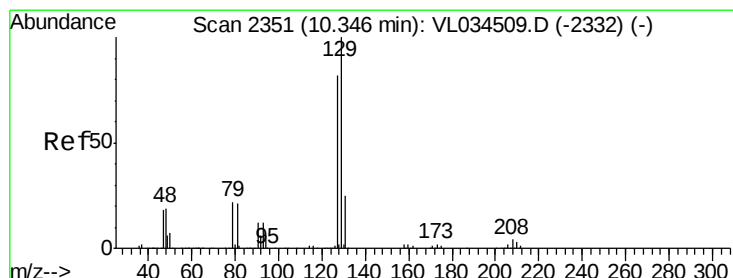
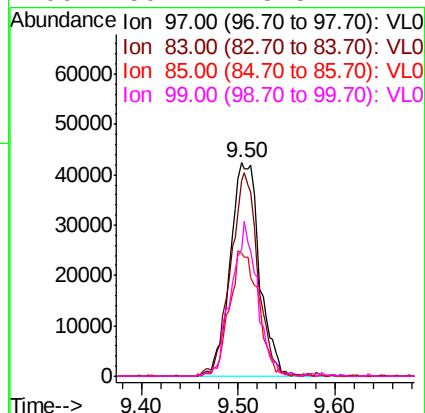
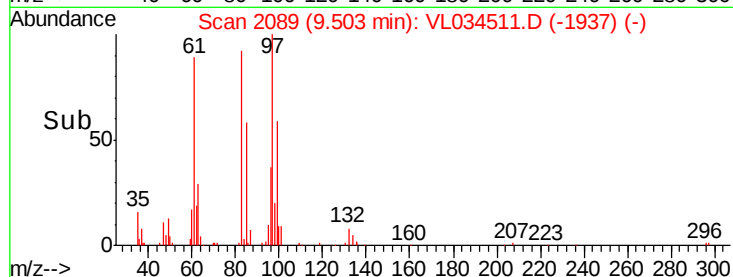
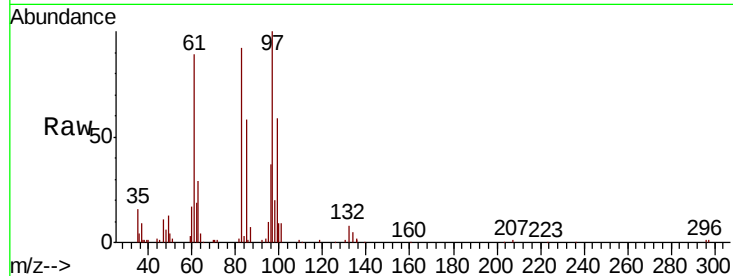
ClientSampleId :

VSTDIC001

Tot Ion:	97	Resp:	89497
Ion	Ratio	Lower	Upper
97	100		
83	91.8	75.0	112.4
85	57.5	48.2	72.4
99	59.4	48.5	72.7

Manual Integrations
APPROVED

apatel
1/2/2020 10:48:39 AM



#48

Dibromochloromethane

Concen: 0.952 ppbv

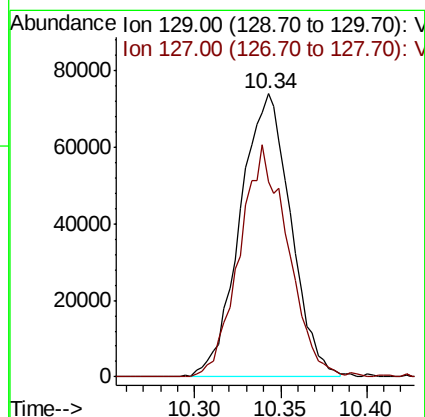
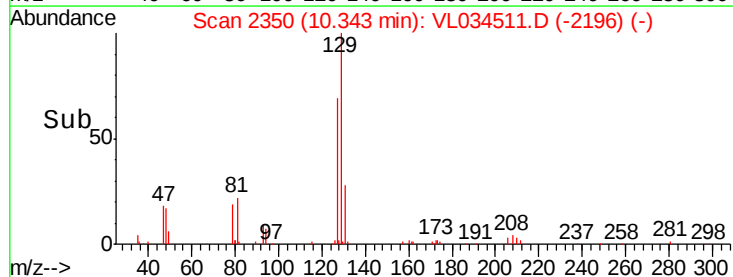
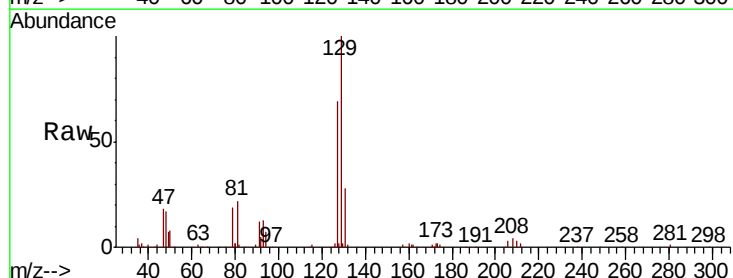
RT: 10.34 min Scan# 2350

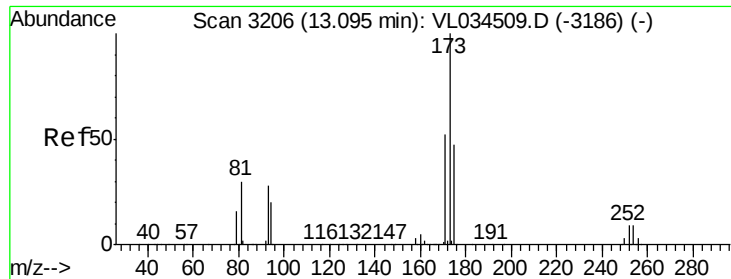
Delta R.T. -0.00 min

Lab File: VL034511.D

Acq: 30 Dec 2019 11:43

Tgt Ion:	129	Resp:	151371
Ion	Ratio	Lower	Upper
129	100		
127	78.6	39.4	118.2





#49

Bromoform

Concen: 0.959 ppbv m

RT: 13.09 min Scan# 3203

Delta R.T. -0.01 min

Lab File: VL034511.D

Acq: 30 Dec 2019 11:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion:173 Resp: 136022

Ion Ratio Lower Upper

173 100

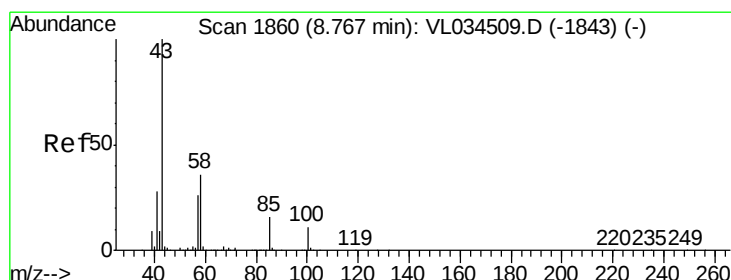
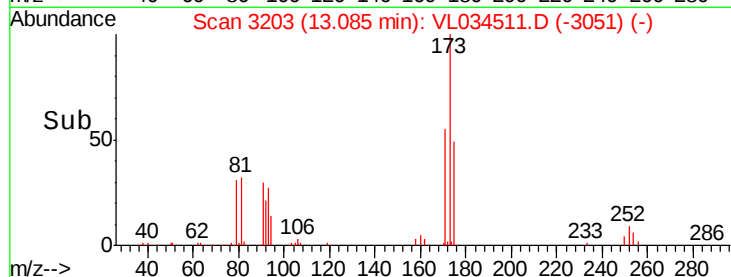
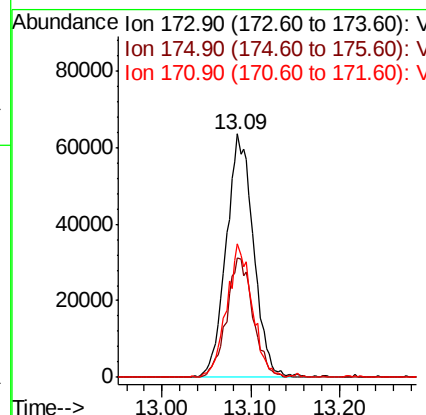
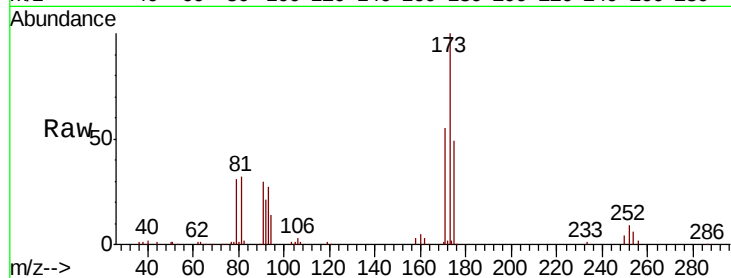
175 0.0 39.8 59.8#

171 0.0 42.1 63.1#

Manual Integrations
APPROVED

apatel

1/2/2020 10:48:39 AM



#50

4-Methyl-2-Pentanone

Concen: 0.915 ppbv

RT: 8.77 min Scan# 1862

Delta R.T. 0.01 min

Lab File: VL034511.D

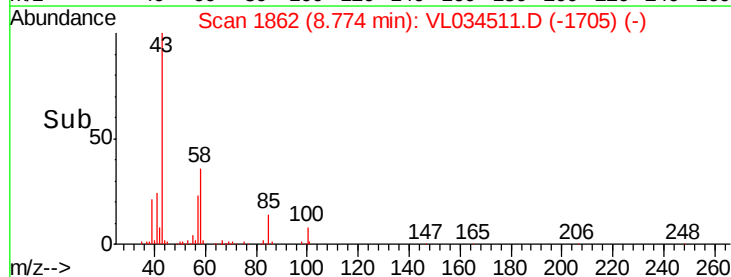
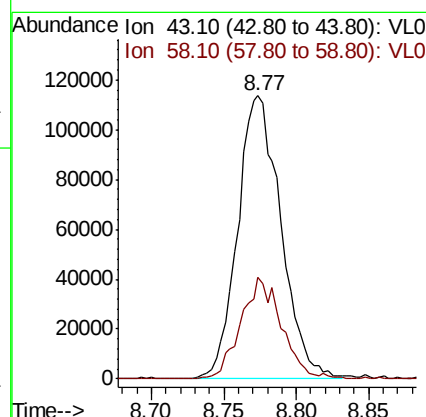
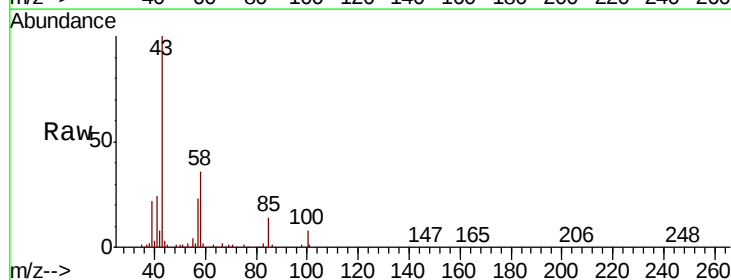
Acq: 30 Dec 2019 11:43

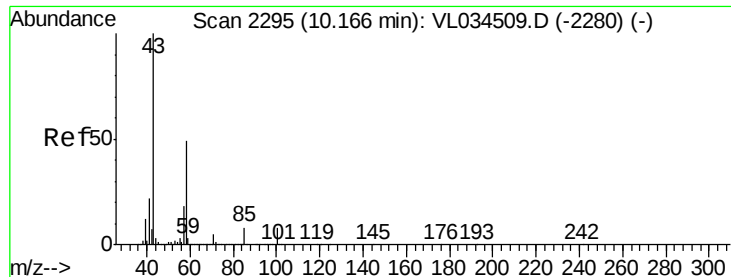
Tgt Ion: 43 Resp: 235337

Ion Ratio Lower Upper

43 100

58 34.0 28.2 42.2





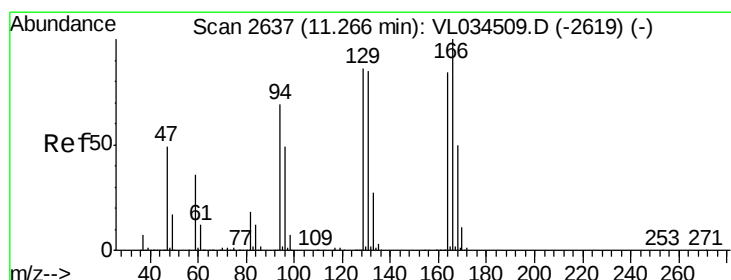
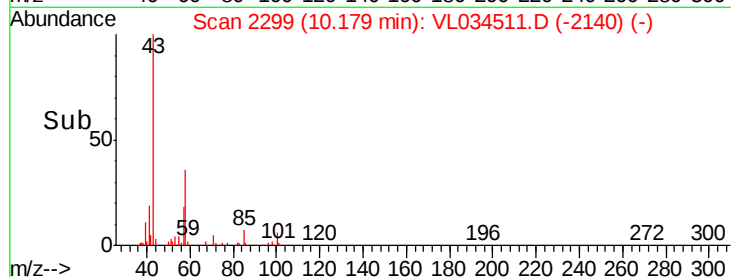
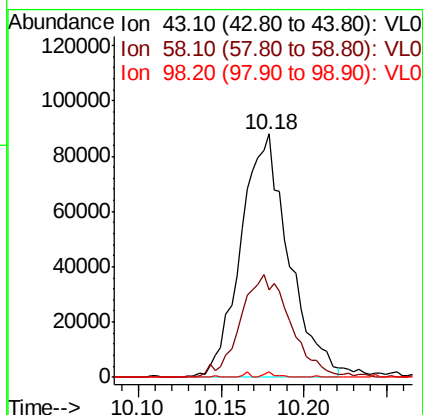
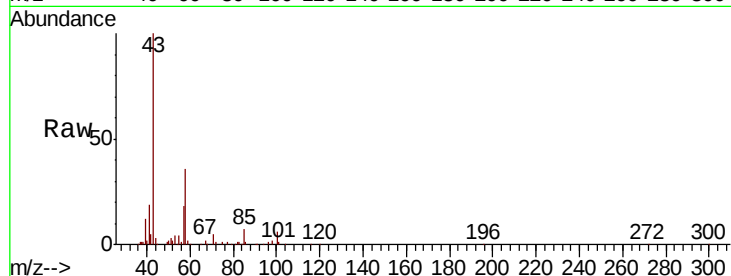
#51
2-Hexanone
Concen: 0.820 ppbv
RT: 10.18 min Scan# 2299
Delta R.T. 0.01 min
Lab File: VL034511.D
Acq: 30 Dec 2019 11:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
43	100		
58	45.0	37.4	56.0
98	0.5	0.2	0.2#

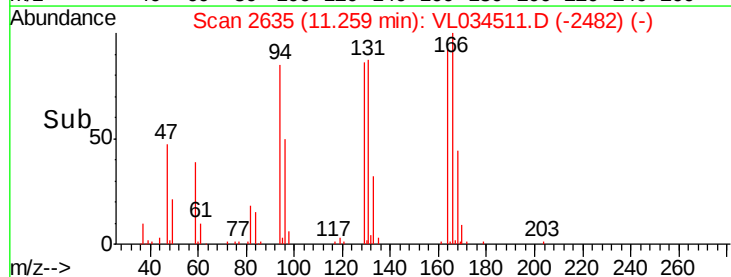
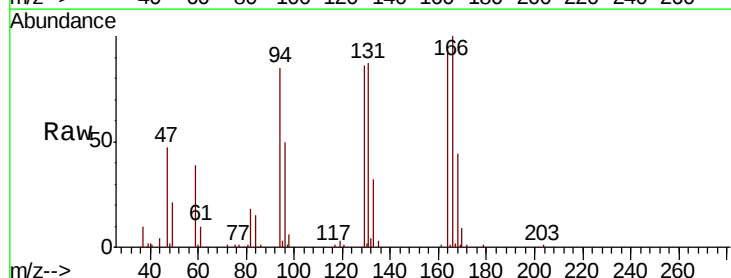
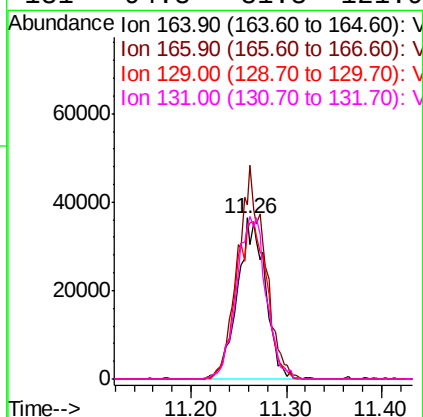
Manual Integrations
APPROVED

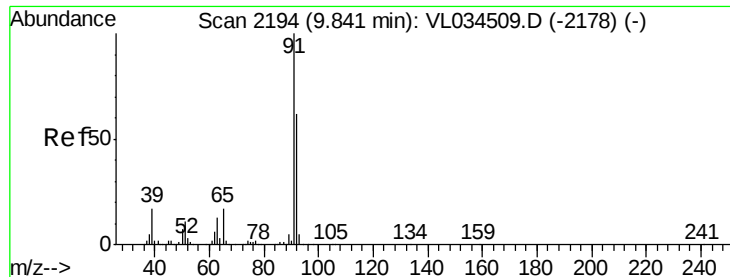
apatel
1/2/2020 10:48:39 AM



#52
Tetrachloroethene
Concen: 0.791 ppbv m
RT: 11.26 min Scan# 2635
Delta R.T. -0.01 min
Lab File: VL034511.D
Acq: 30 Dec 2019 11:43

Tgt Ion	Ratio	Lower	Upper
164	100		
166	108.6	95.7	143.5
129	93.4	82.2	123.2
131	94.8	81.3	121.9





#53

Toluene

Concen: 0.850 ppbv

RT: 9.84 min Scan# 2194

Delta R.T. -0.00 min

Lab File: VL034511.D

Acq: 30 Dec 2019 11:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 208637

Ion Ratio Lower Upper

91 100

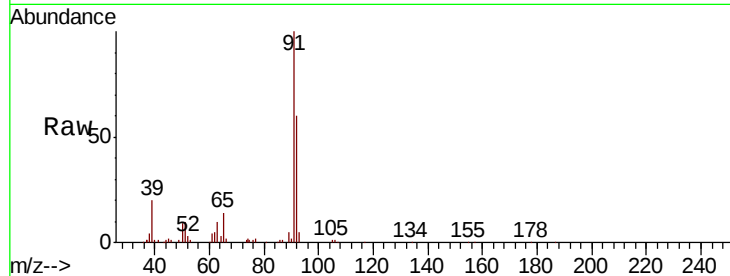
92 59.6 48.4 72.6

Manual Integrations

APPROVED

apatel

1/2/2020 10:48:39 AM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.84

120000

100000

80000

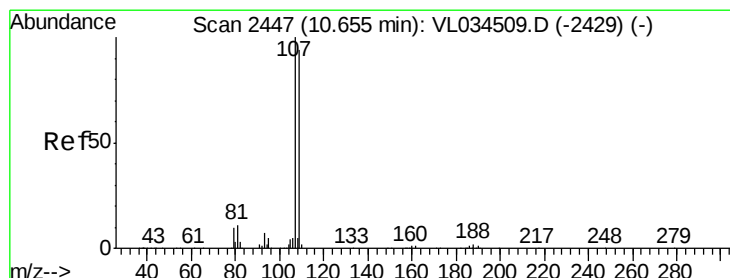
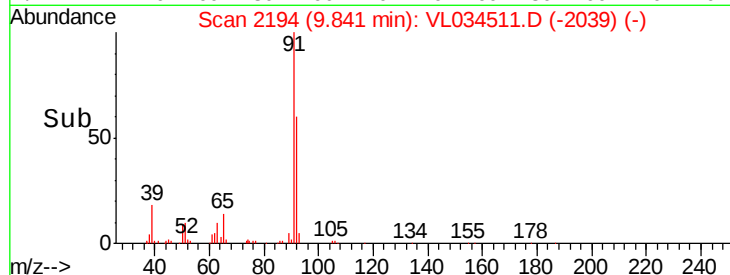
60000

40000

20000

0

Time-->



#54

1,2-Dibromoethane

Concen: 0.920 ppbv

RT: 10.64 min Scan# 2444

Delta R.T. -0.01 min

Lab File: VL034511.D

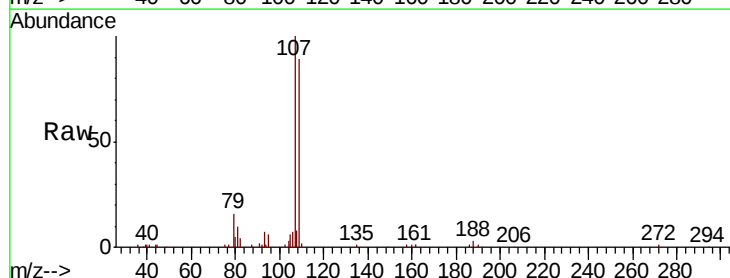
Acq: 30 Dec 2019 11:43

Tgt Ion: 107 Resp: 130619

Ion Ratio Lower Upper

107 100

109 88.8 75.5 113.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

80000

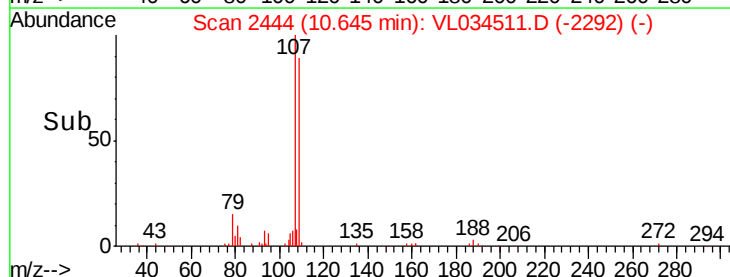
60000

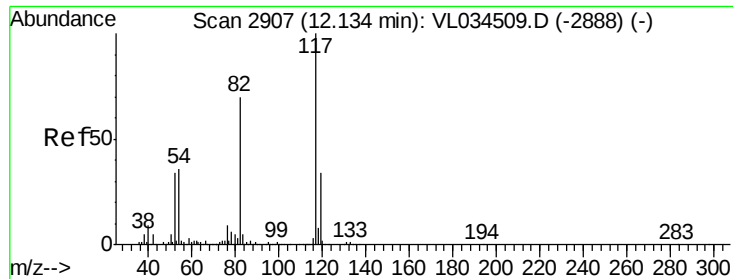
40000

20000

0

Time-->





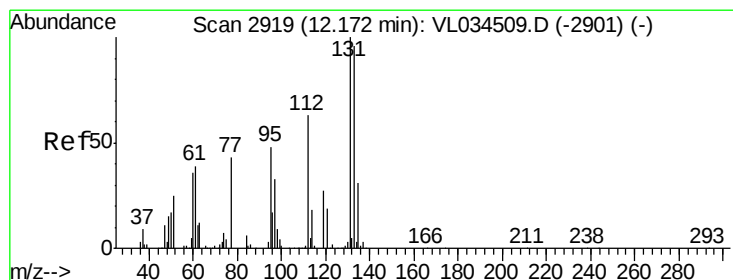
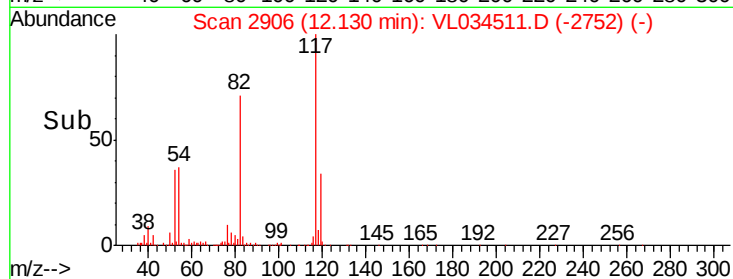
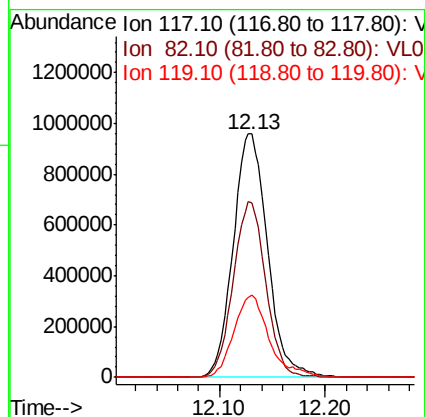
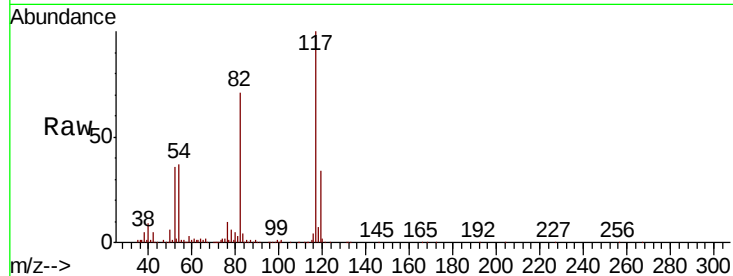
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.13 min Scan# 2906
Delta R.T. -0.00 min
Lab File: VL034511.D
Acq: 30 Dec 2019 11:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
117	100		
82	68.6	56.2	84.4
119	35.1	27.1	40.7

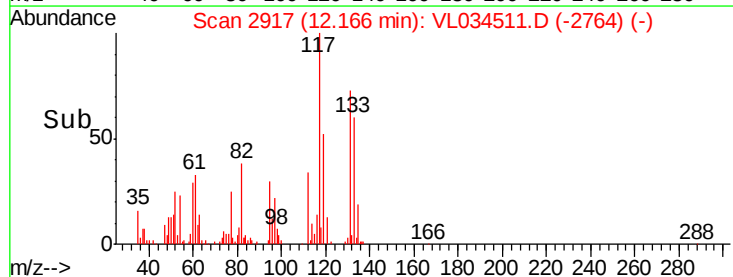
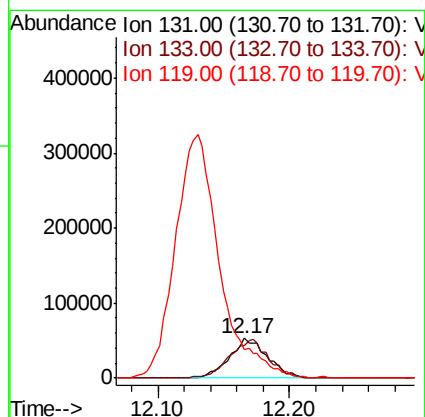
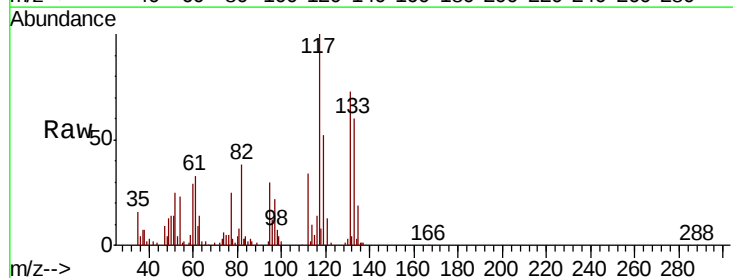
Manual Integrations
APPROVED

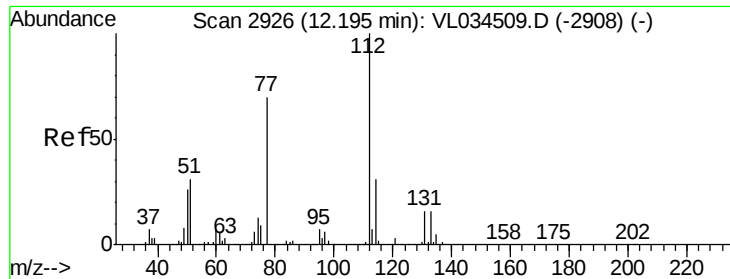
apatel
1/2/2020 10:48:39 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 1.001 ppbv m
RT: 12.17 min Scan# 2917
Delta R.T. -0.01 min
Lab File: VL034511.D
Acq: 30 Dec 2019 11:43

Tgt Ion	Ratio	Lower	Upper
131	100		
133	100.0	76.2	114.2
119	0.0	47.1	70.7#





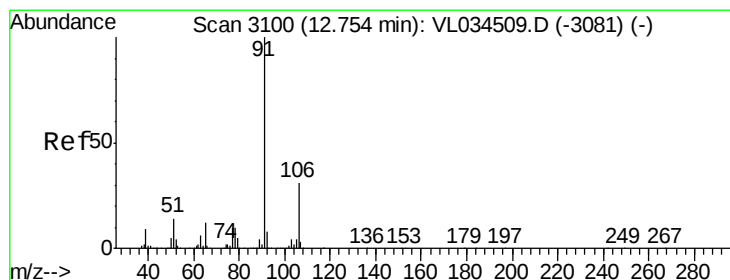
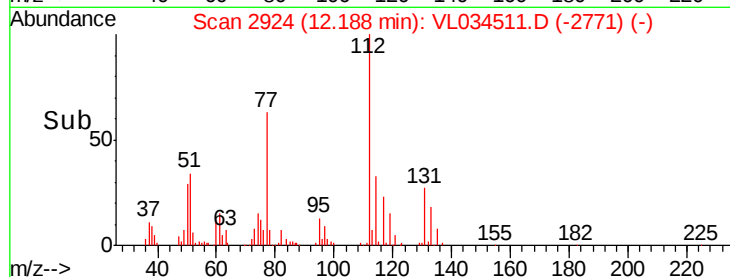
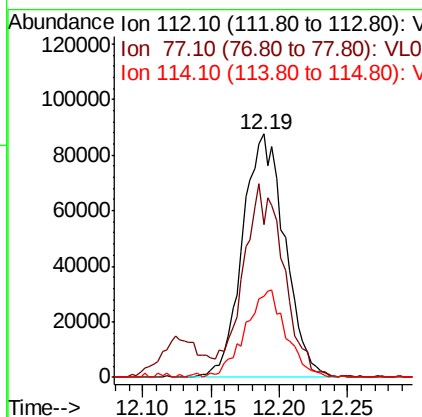
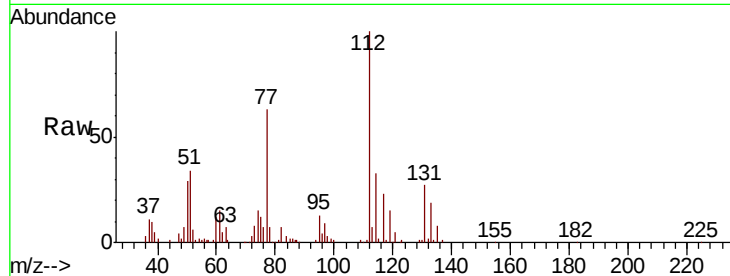
#57
Chlorobenzene
Concen: 0.962 ppbv
RT: 12.19 min Scan# 2924
Delta R.T. -0.01 min
Lab File: VL034511.D
Acq: 30 Dec 2019 11:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
112	100		
77	62.4	57.4	86.0
114	33.4	28.4	34.8

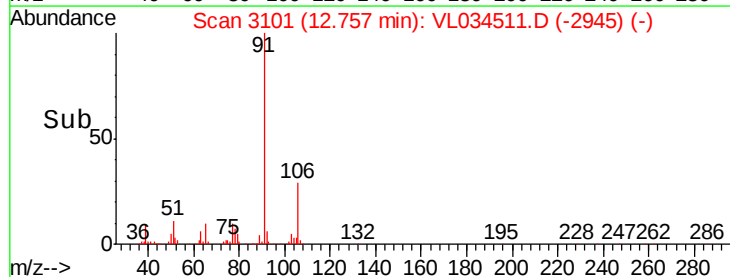
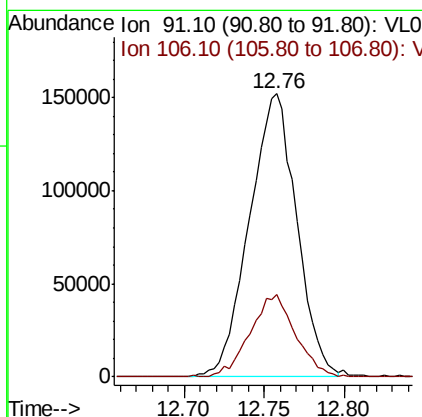
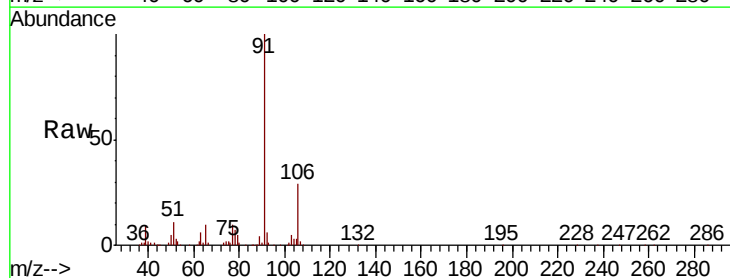
Manual Integrations
APPROVED

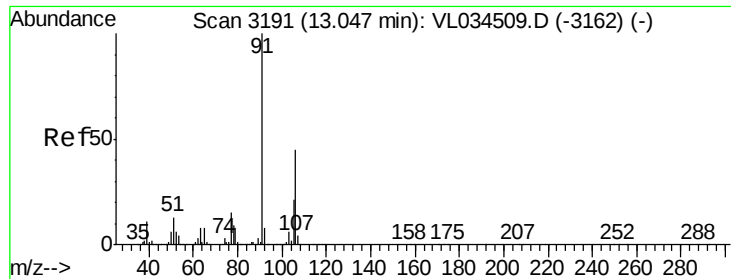
apatel
1/2/2020 10:48:39 AM



#58
Ethyl Benzene
Concen: 0.919 ppbv
RT: 12.76 min Scan# 3101
Delta R.T. 0.00 min
Lab File: VL034511.D
Acq: 30 Dec 2019 11:43

Tgt Ion	Ratio	Lower	Upper
91	100		
106	28.9	24.6	36.8





#59

m/p-Xylene

Concen: 1.856 ppbv m

RT: 13.03 min Scan# 3186

Delta R.T. -0.02 min

Lab File: VL034511.D

Acq: 30 Dec 2019 11:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 539516

Ion Ratio Lower Upper

91 100

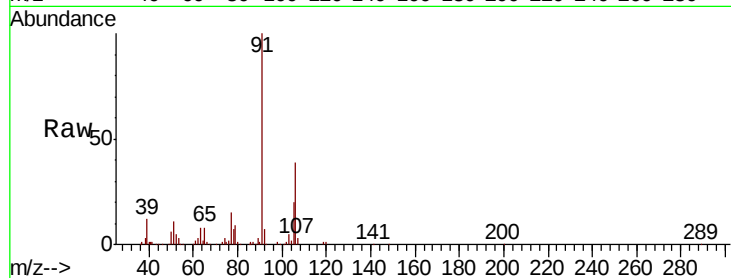
106 42.5 35.6 53.4

Manual Integrations

APPROVED

apatel

1/2/2020 10:48:39 AM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

150000

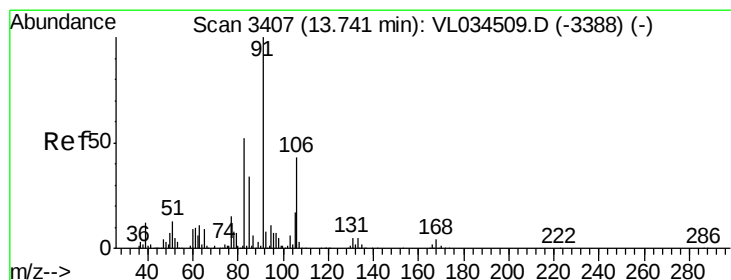
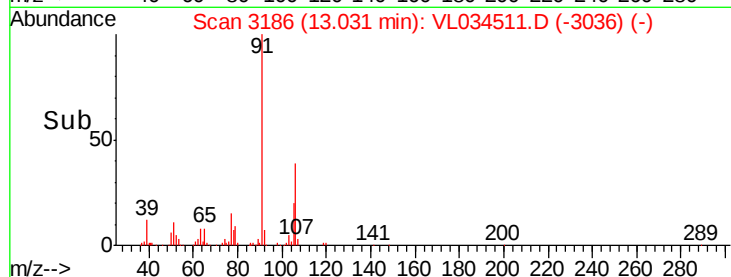
100000

50000

0

12.90 13.00 13.10

Time-->



#60

o-Xylene

Concen: 0.942 ppbv

RT: 13.74 min Scan# 3406

Delta R.T. -0.00 min

Lab File: VL034511.D

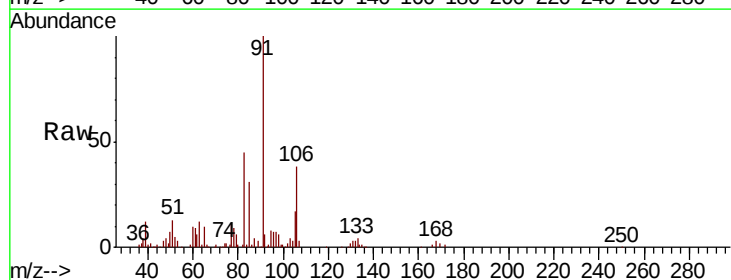
Acq: 30 Dec 2019 11:43

Tgt Ion: 91 Resp: 270656

Ion Ratio Lower Upper

91 100

106 40.4 21.4 64.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

150000

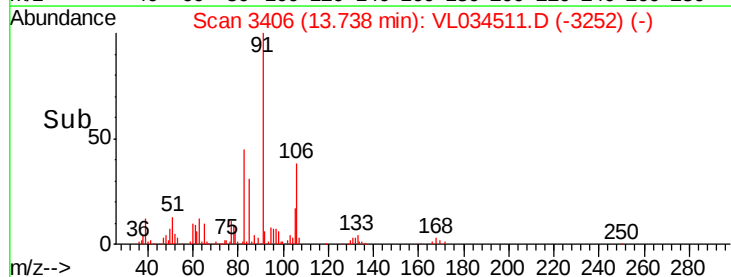
100000

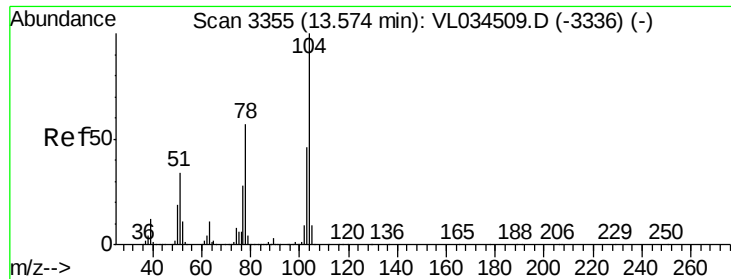
50000

0

13.65 13.70 13.75 13.80

Time-->





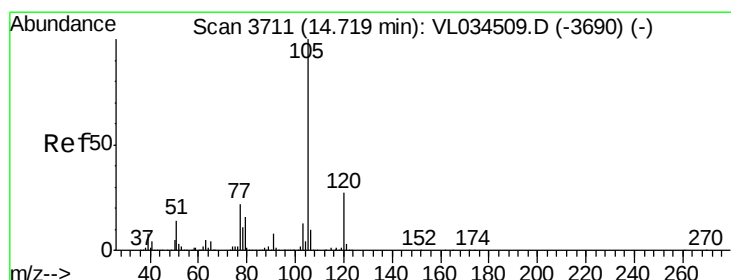
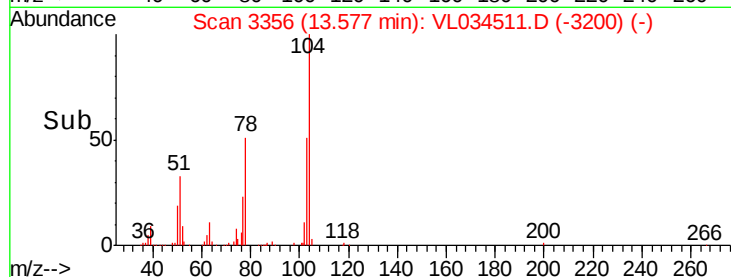
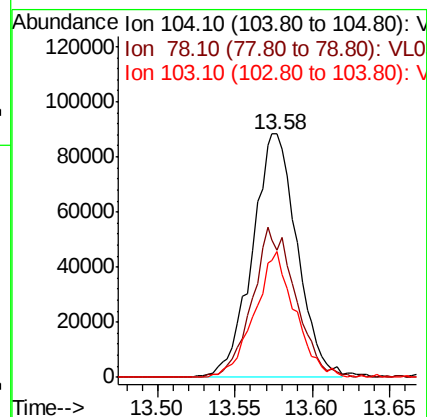
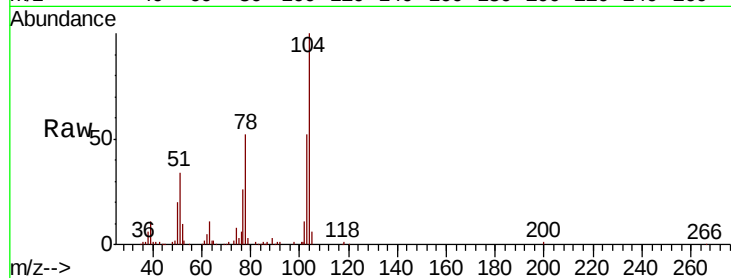
#61
Stvrene
Concen: 0.859 ppbv
RT: 13.58 min Scan# 3356
Delta R.T. 0.00 min
Lab File: VL034511.D
Acq: 30 Dec 2019 11:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
104	100		
78	59.7	47.7	71.5
103	46.9	38.6	58.0

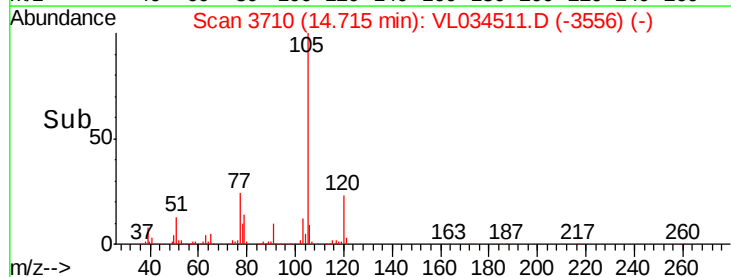
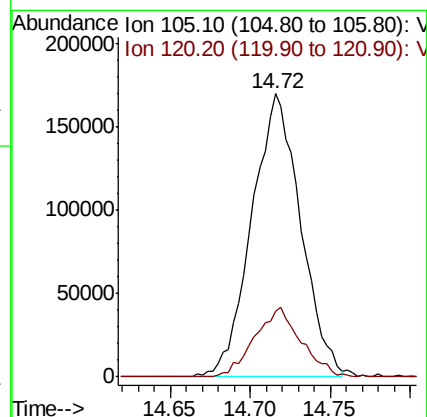
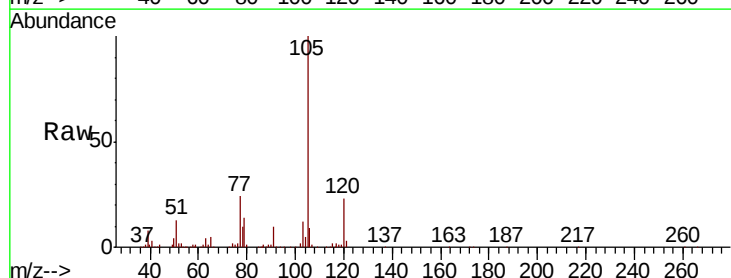
Manual Integrations
APPROVED

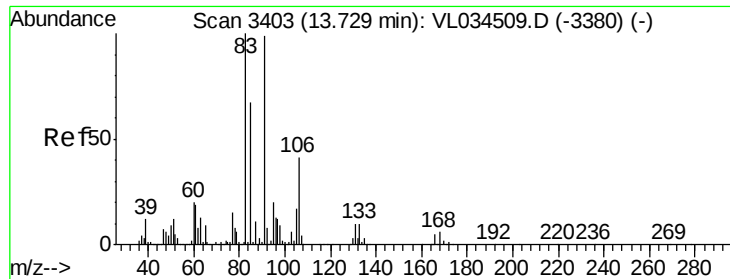
apatel
1/2/2020 10:48:39 AM



#62
Isopropylbenzene
Concen: 0.936 ppbv
RT: 14.72 min Scan# 3710
Delta R.T. -0.00 min
Lab File: VL034511.D
Acq: 30 Dec 2019 11:43

Tgt Ion	Ratio	Lower	Upper
105	100		
120	23.5	20.6	30.8





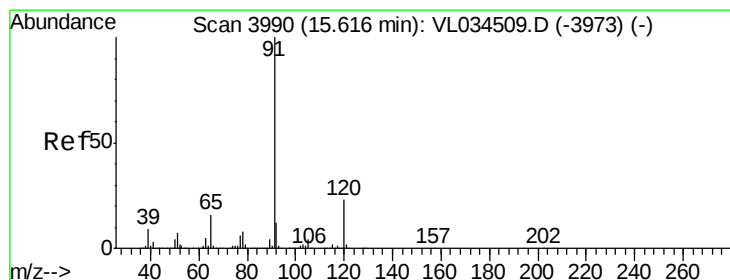
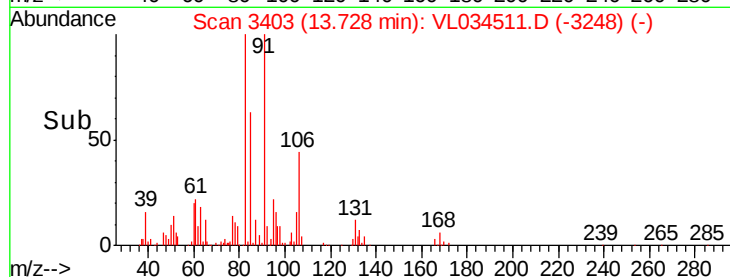
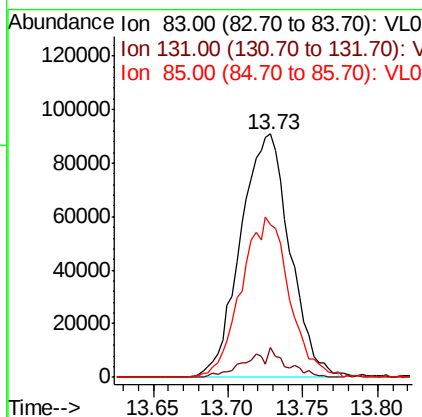
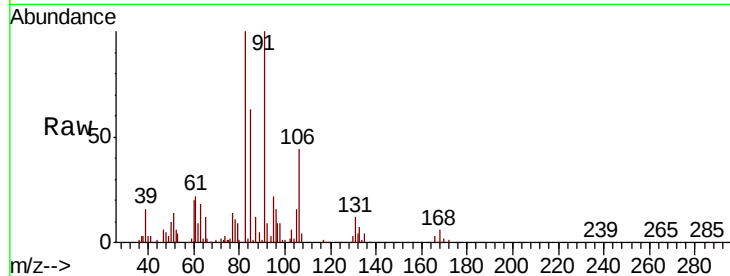
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.964 ppbv
 RT: 13.73 min Scan# 3403
 Delta R.T. -0.00 min
 Lab File: VL034511.D
 Acq: 30 Dec 2019 11:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
83	100		
131	9.7	4.8	14.4
85	64.6	32.5	97.4

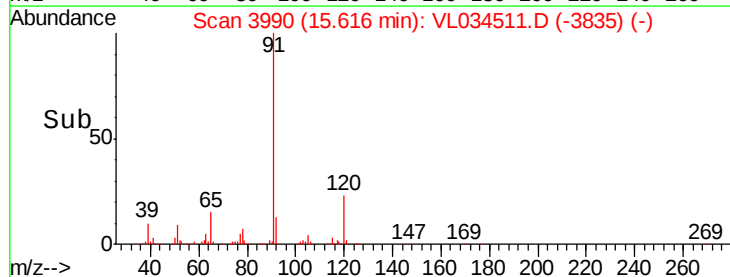
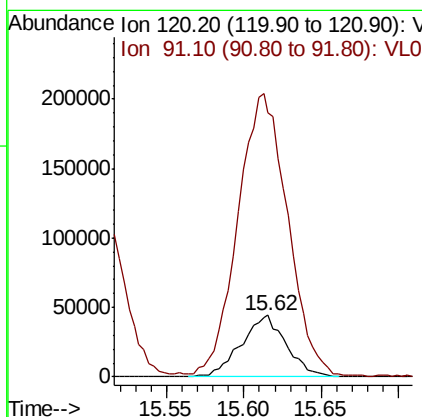
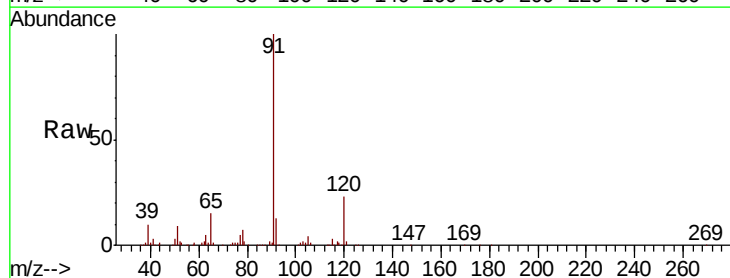
Manual Integrations
 APPROVED

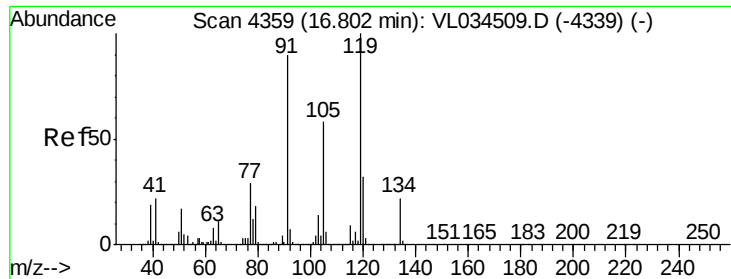
apatel
 1/2/2020 10:48:39 AM



#64
 n-propylbenzene
 Concen: 0.906 ppbv
 RT: 15.62 min Scan# 3990
 Delta R.T. -0.00 min
 Lab File: VL034511.D
 Acq: 30 Dec 2019 11:43

Tgt Ion	Ratio	Lower	Upper
120	100		
91	512.9	375.6	563.4





#65

tert-Butylbenzene

Concen: 0.923 ppbv

RT: 16.80 min Scan# 4357

Delta R.T. -0.01 min

Lab File: VL034511.D

Acq: 30 Dec 2019 11:43

Instrument :

MSVOA_L

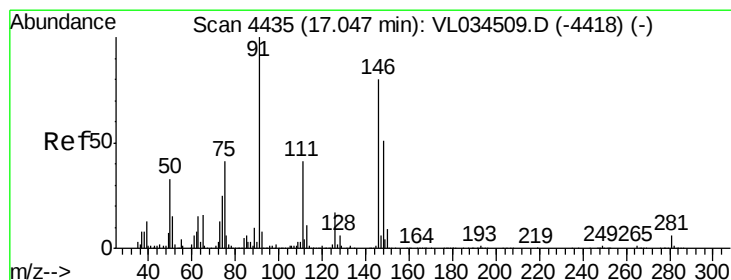
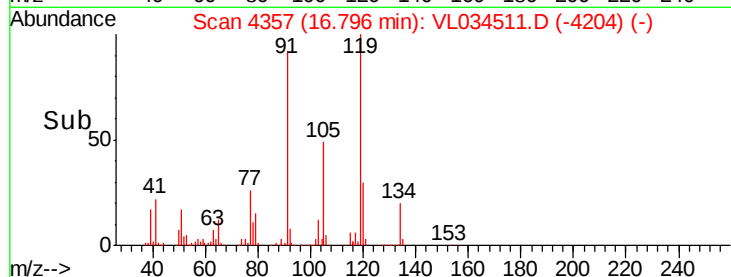
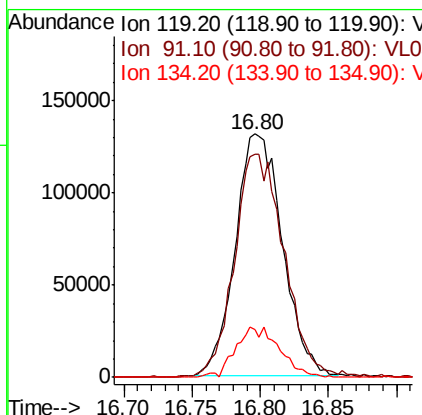
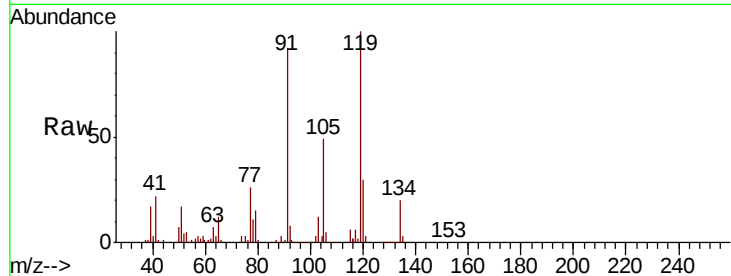
ClientSampleId :

VSTDIC001

Tot Ion:	119	Resp:	315213
Ion Ratio	Lower	Upper	
119	100		
91	98.0	72.0	108.0
134	19.5	16.1	24.1

Manual Integrations
APPROVED

apatel
1/2/2020 10:48:39 AM



#66

Benzyl Chloride

Concen: 0.900 ppbv m

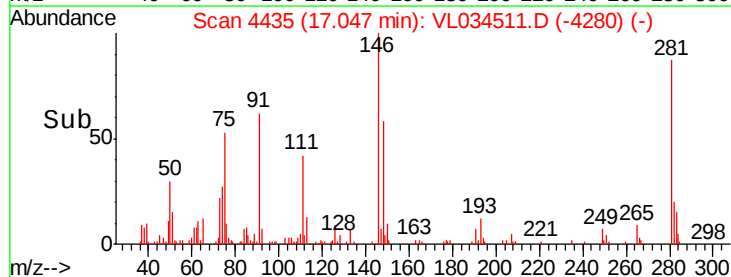
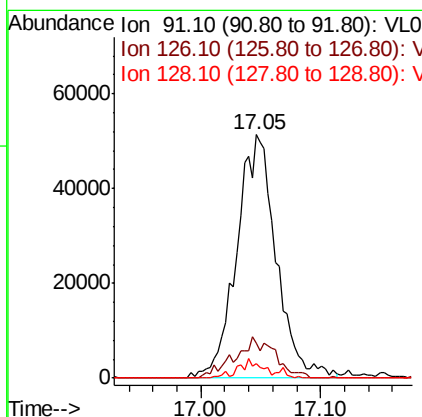
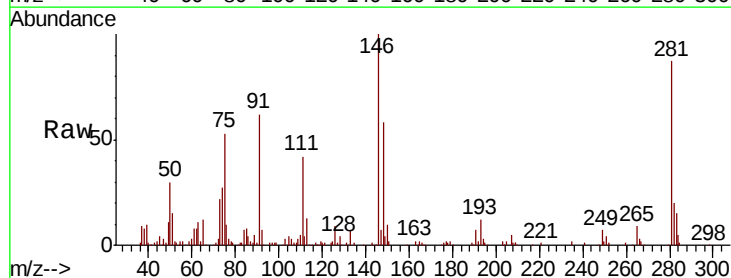
RT: 17.05 min Scan# 4435

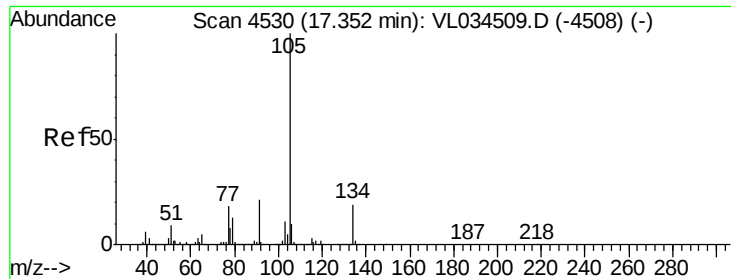
Delta R.T. -0.00 min

Lab File: VL034511.D

Acq: 30 Dec 2019 11:43

Tgt Ion:	91	Resp:	118215
Ion Ratio	Lower	Upper	
91	100		
126	0.0	13.1	19.7#
128	5.5	4.2	6.4





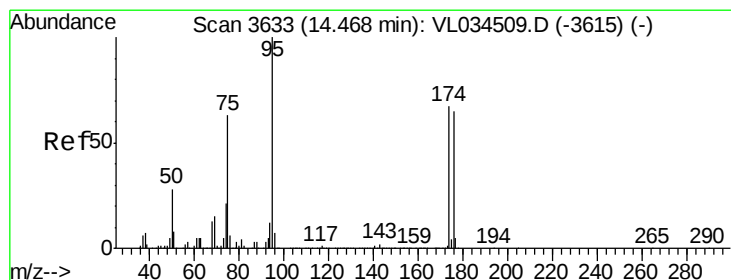
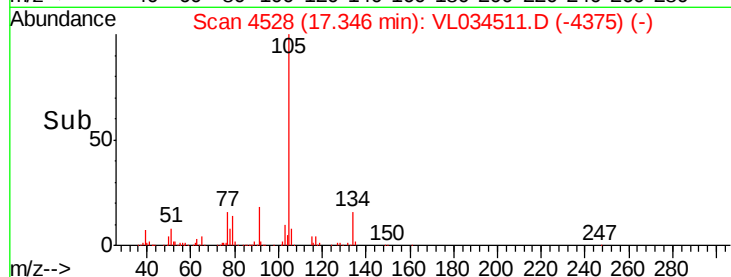
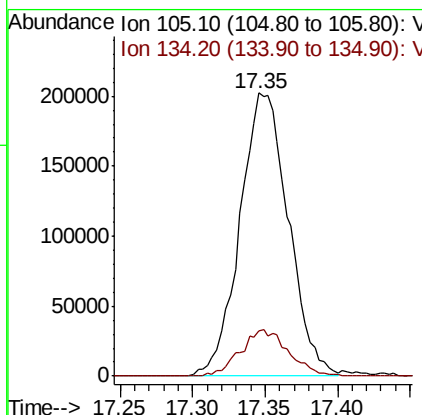
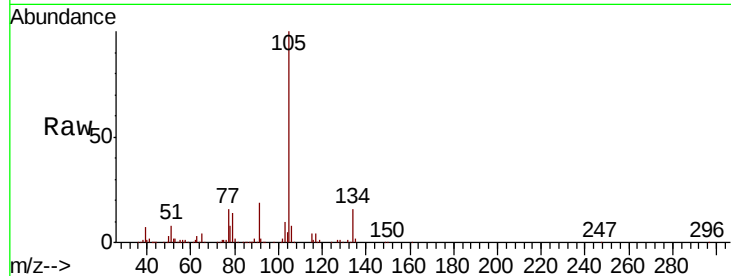
#67
 sec-Butylbenzene
 Concen: 0.975 ppbv
 RT: 17.35 min Scan# 4528
 Delta R.T. -0.01 min
 Lab File: VL034511.D
 Acq: 30 Dec 2019 11:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
105	100		
134	16.5	15.1	22.7

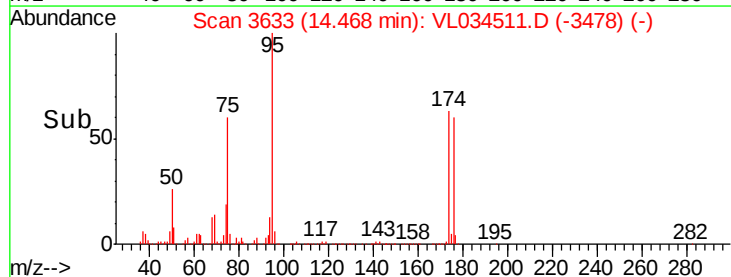
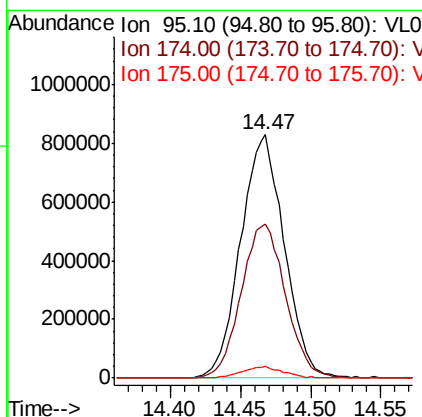
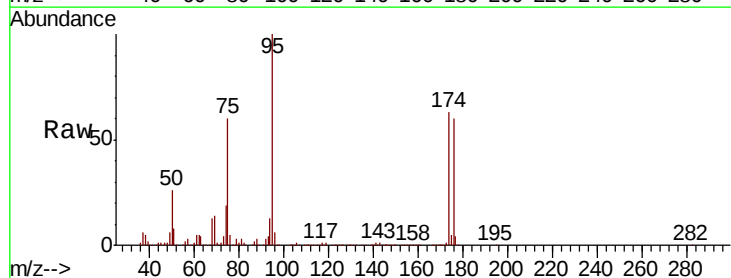
Manual Integrations
 APPROVED

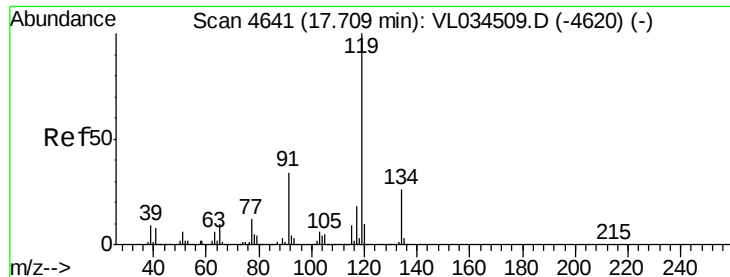
apatel
 1/2/2020 10:48:39 AM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.800 ppbv
 RT: 14.47 min Scan# 3633
 Delta R.T. -0.00 min
 Lab File: VL034511.D
 Acq: 30 Dec 2019 11:43

Tgt Ion	Ratio	Lower	Upper
95	100		
174	65.1	52.4	78.6
175	4.7	3.9	5.9





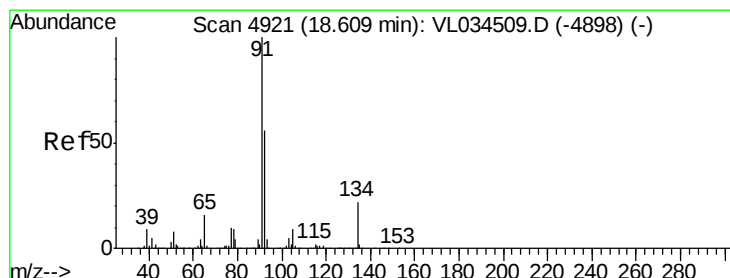
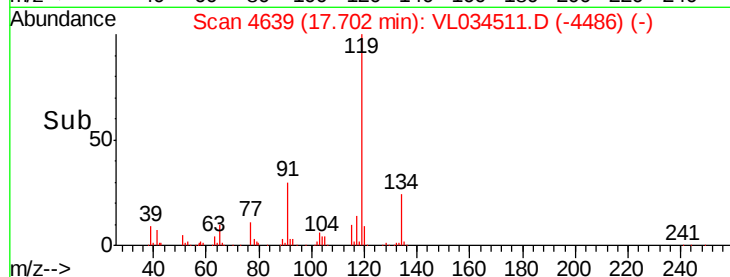
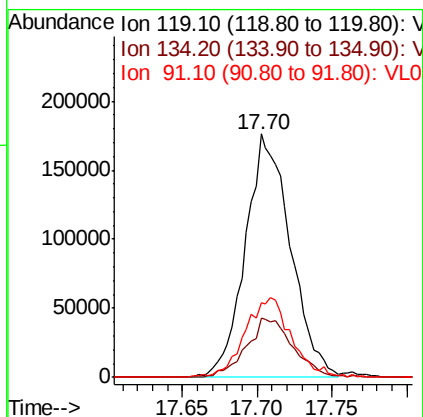
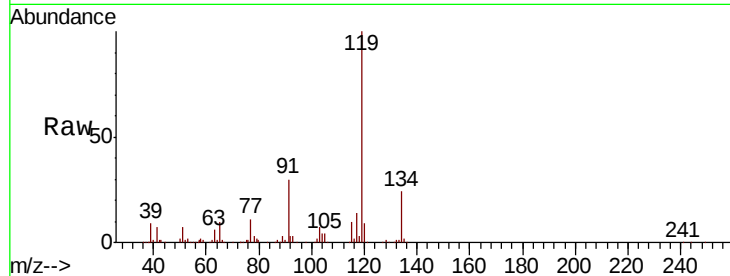
#69
 p-Isopropyltoluene
 Concen: 0.932 ppbv
 RT: 17.70 min Scan# 4639
 Delta R.T. -0.01 min
 Lab File: VL034511.D
 Acq: 30 Dec 2019 11:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.7	31.1
91	34.0	26.6	39.8

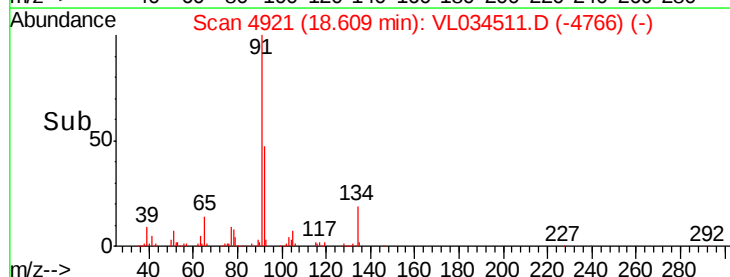
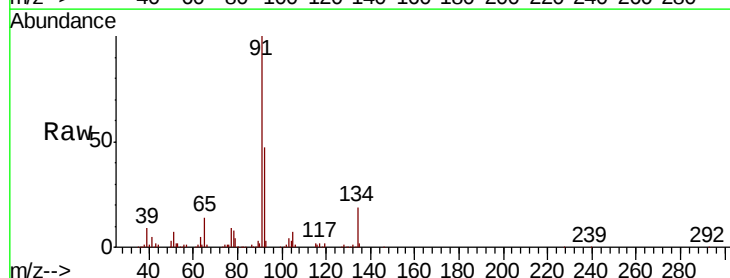
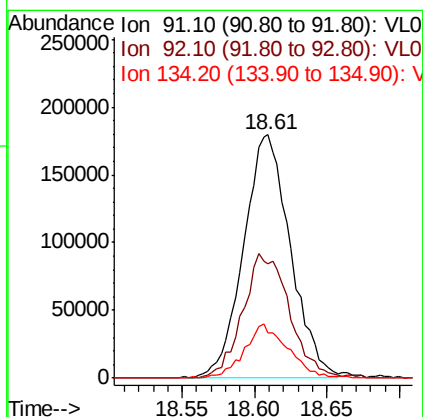
Manual Integrations
 APPROVED

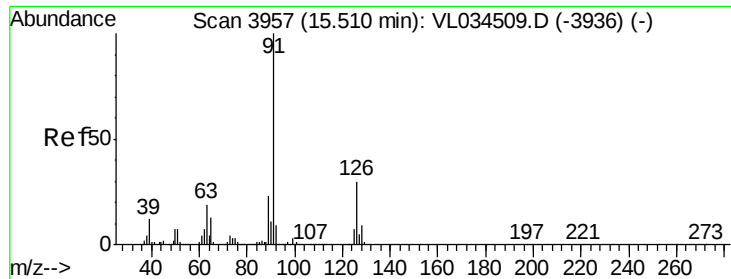
apatel
 1/2/2020 10:48:39 AM



#70
 n-Butylbenzene
 Concen: 0.938 ppbv
 RT: 18.61 min Scan# 4921
 Delta R.T. -0.00 min
 Lab File: VL034511.D
 Acq: 30 Dec 2019 11:43

Tgt Ion	Ratio	Lower	Upper
91	100		
92	51.9	43.8	65.6
134	20.8	18.0	27.0





#71

2-Chlorotoluene

Concen: 0.919 ppbv

RT: 15.51 min Scan# 3956

Delta R.T. -0.00 min

Lab File: VL034511.D

Acq: 30 Dec 2019 11:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 278437

Ion Ratio Lower Upper

91 100

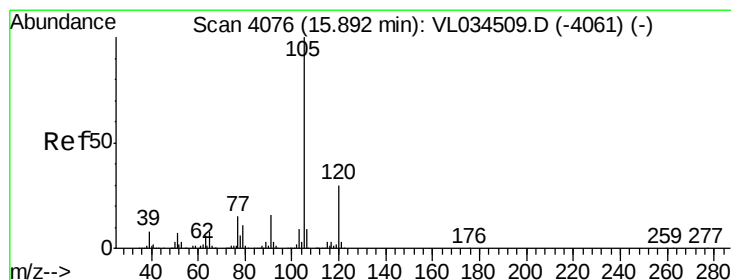
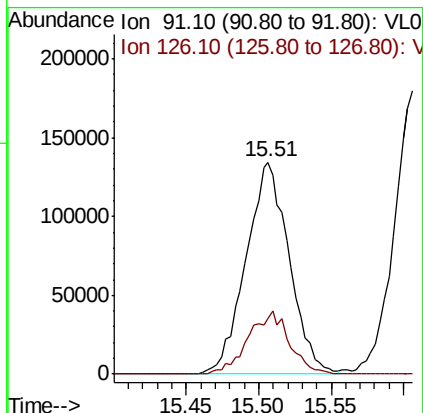
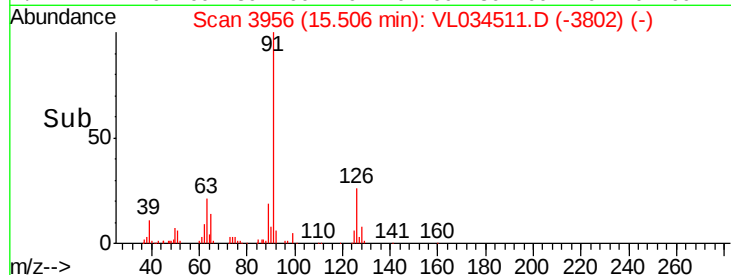
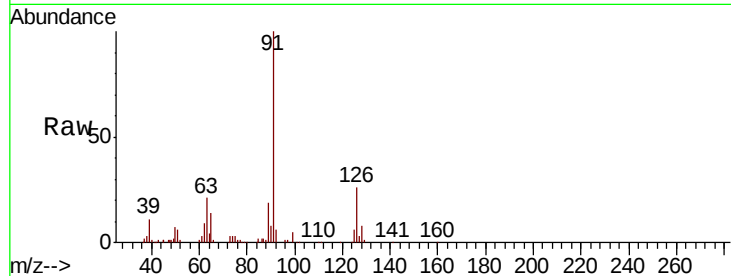
126 28.7 12.0 47.8

Manual Integrations

APPROVED

apatel

1/2/2020 10:48:39 AM



#72

4-Ethyltoluene

Concen: 0.884 ppbv

RT: 15.89 min Scan# 4075

Delta R.T. -0.00 min

Lab File: VL034511.D

Acq: 30 Dec 2019 11:43

Tgt Ion: 105 Resp: 293507

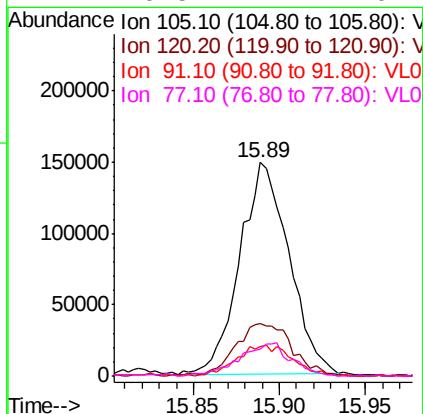
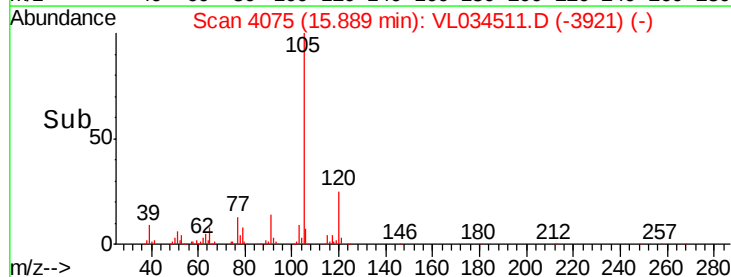
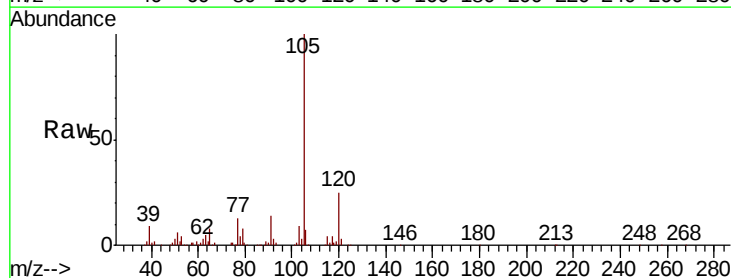
Ion Ratio Lower Upper

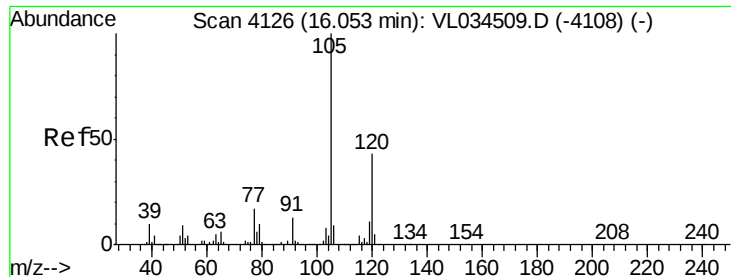
105 100

120 29.4 23.7 35.5

91 15.9 11.5 17.3

77 16.5 12.7 19.1





#73

1,3,5-Trimethylbenzene

Concen: 0.916 ppbv

RT: 16.05 min Scan# 4125

Delta R.T. -0.00 min

Lab File: VL034511.D

Acq: 30 Dec 2019 11:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion:105 Resp: 297815

Ion Ratio Lower Upper

105 100

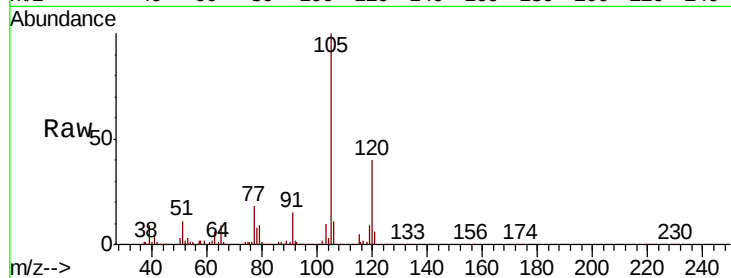
120 40.1 34.6 52.0

Manual Integrations

APPROVED

apatel

1/2/2020 10:48:39 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

150000

100000

50000

0

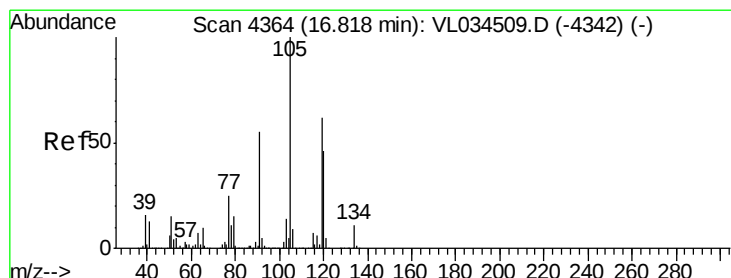
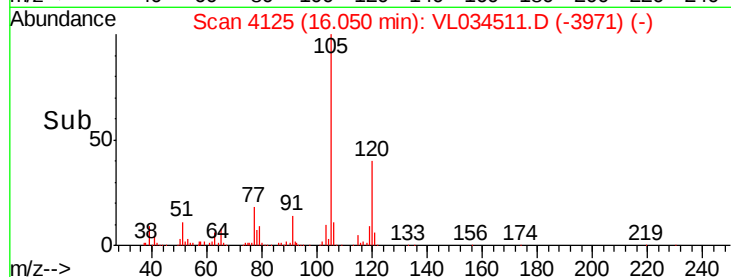
16.05

16.00

16.05

16.10

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 0.938 ppbv

RT: 16.82 min Scan# 4364

Delta R.T. -0.00 min

Lab File: VL034511.D

Acq: 30 Dec 2019 11:43

Tgt Ion:105 Resp: 324018

Ion Ratio Lower Upper

105 100

120 40.1 36.7 55.1

91 42.9 44.0 66.0#

77 20.4 19.9 29.9

Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

200000

150000

100000

50000

0

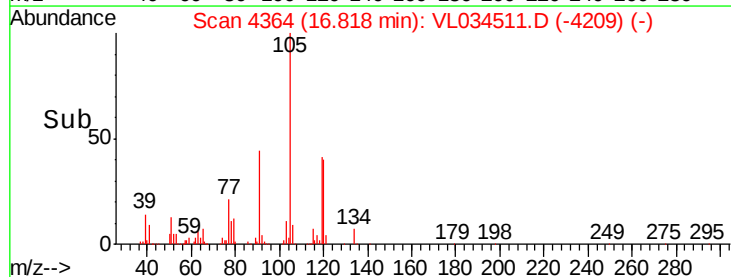
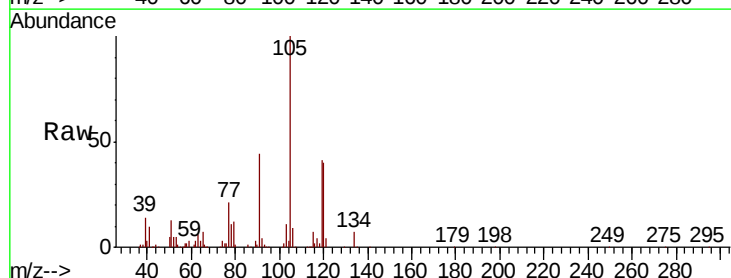
16.82

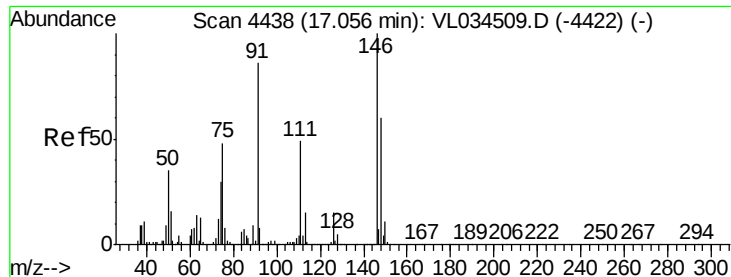
16.75

16.80

16.85

Time-->





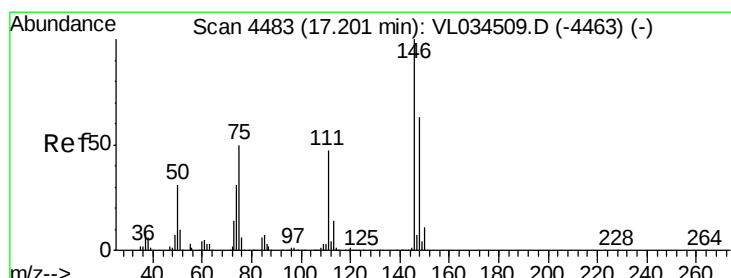
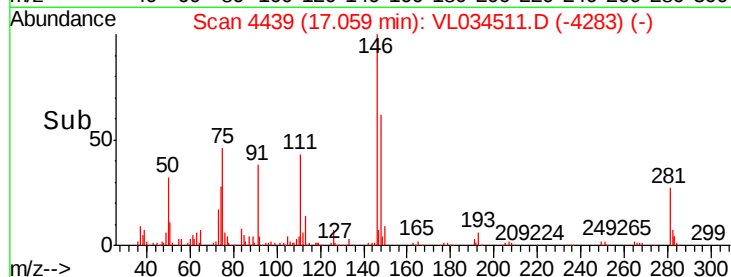
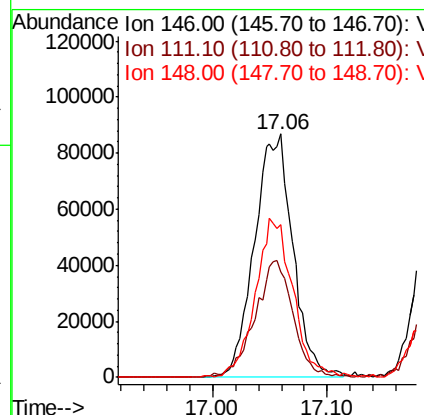
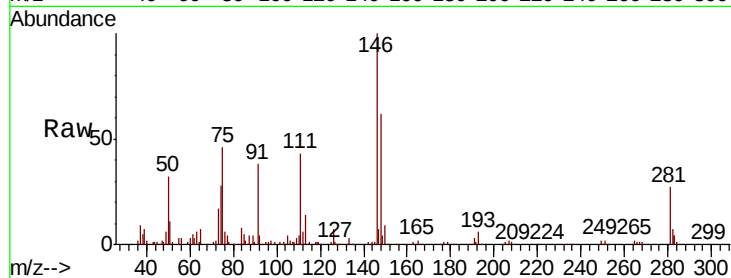
#75
 1,3-Dichlorobenzene
 Concen: 1.016 ppbv m
 RT: 17.06 min Scan# 4439
 Delta R.T. 0.00 min
 Lab File: VL034511.D
 Acq: 30 Dec 2019 11:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	25.1	75.3#
148	64.0	33.0	99.0

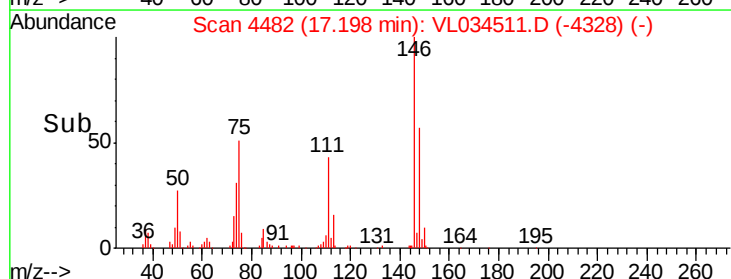
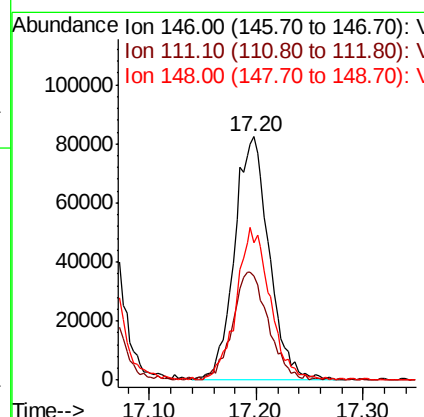
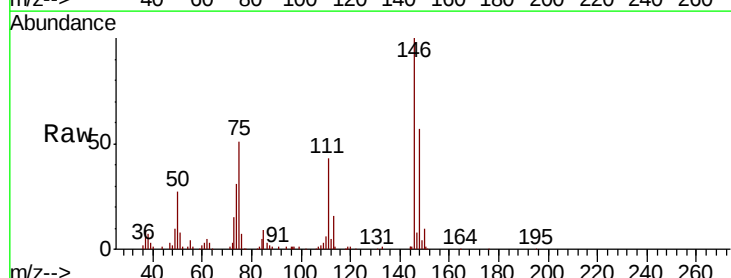
Manual Integrations
 APPROVED

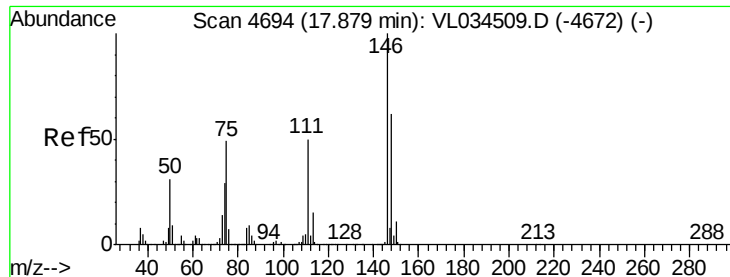
apatel
 1/2/2020 10:48:39 AM



#76
 1,4-Dichlorobenzene
 Concen: 0.968 ppbv m
 RT: 17.20 min Scan# 4482
 Delta R.T. -0.00 min
 Lab File: VL034511.D
 Acq: 30 Dec 2019 11:43

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.3	23.5	70.6
148	61.9	32.1	96.3





#77

1,2-Dichlorobenzene

Concen: 0.928 ppbv

RT: 17.88 min Scan# 4693

Delta R.T. -0.00 min

Lab File: VL034511.D

Acq: 30 Dec 2019 11:43

Instrument :

MSVOA_L

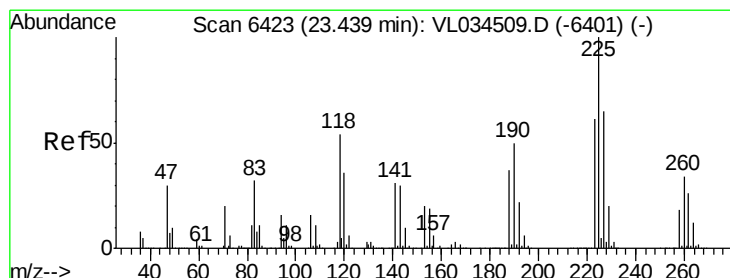
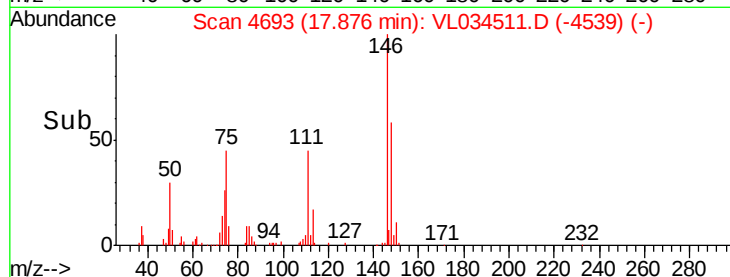
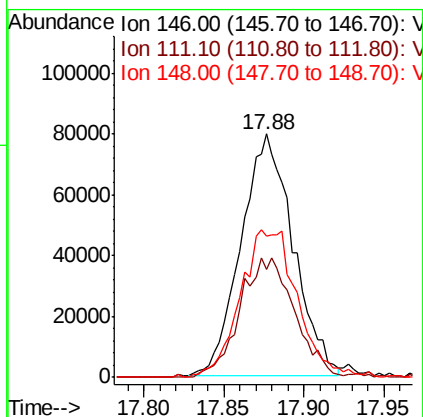
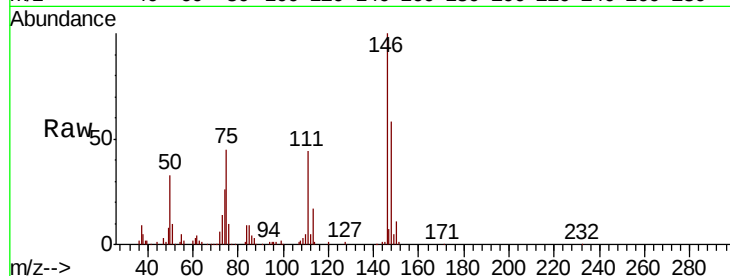
ClientSampleId :

VSTDIC001

Tot Ion:	146	Resp:	177924
Ion Ratio	Lower	Upper	
146	100		
111	52.4	25.3	75.8
148	66.9	32.1	96.3

Manual Integrations
APPROVED

apatel
1/2/2020 10:48:39 AM



#78

Hexachloro-1,3-Butadiene

Concen: 1.059 ppbv

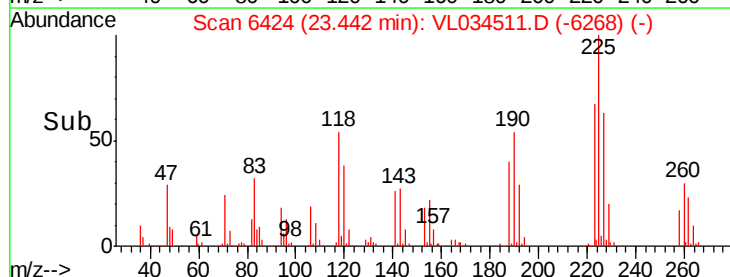
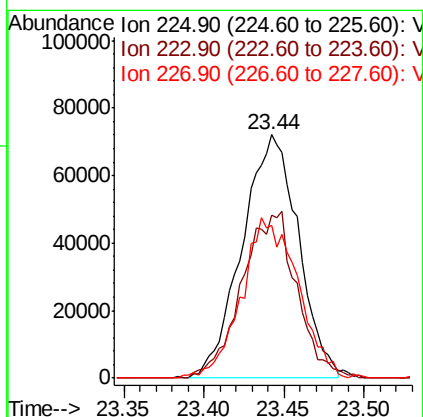
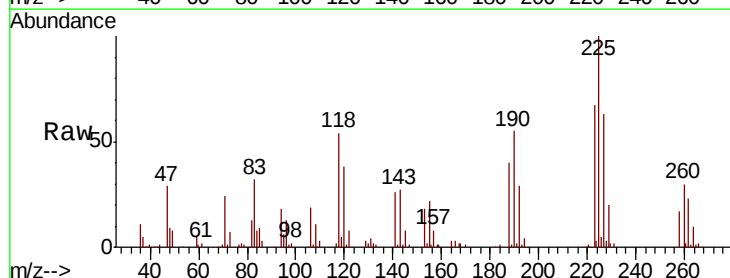
RT: 23.44 min Scan# 6424

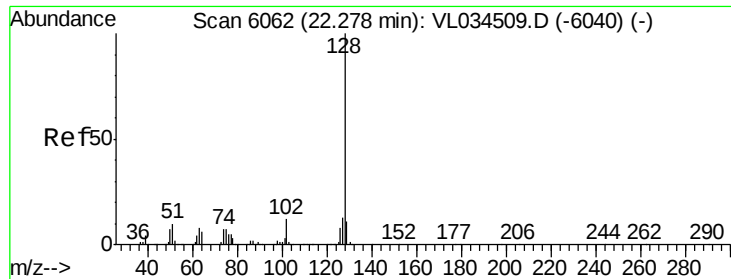
Delta R.T. 0.00 min

Lab File: VL034511.D

Acq: 30 Dec 2019 11:43

Tgt Ion:	225	Resp:	174388
Ion Ratio	Lower	Upper	
225	100		
223	66.8	51.0	76.6
227	66.1	51.8	77.6





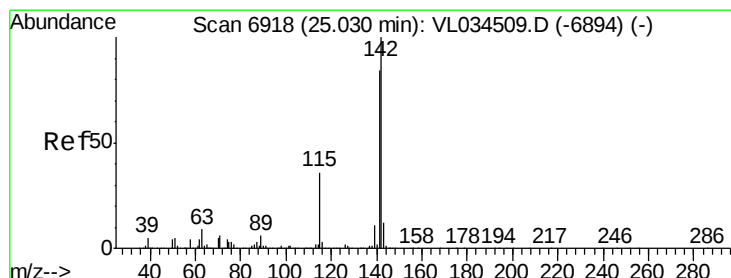
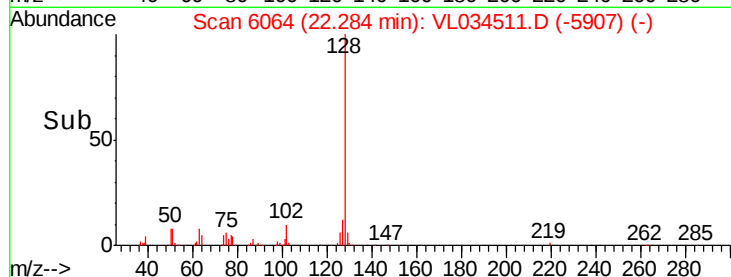
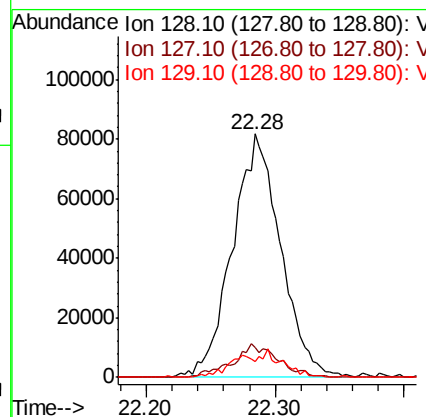
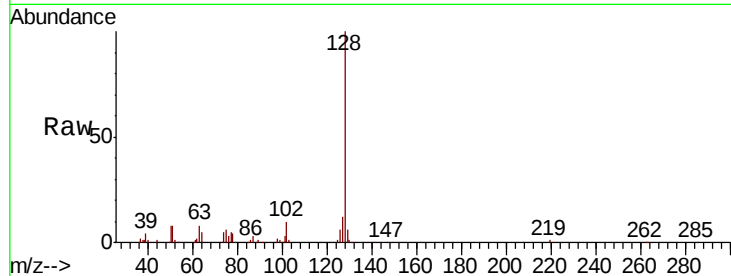
#79
Naphthalene
Concen: 0.702 ppbv
RT: 22.28 min Scan# 6064
Delta R.T. 0.01 min
Lab File: VL034511.D
Acq: 30 Dec 2019 11:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
128	100	210278		
127	12.4	10.6	15.8	
129	6.3	8.7	13.1	

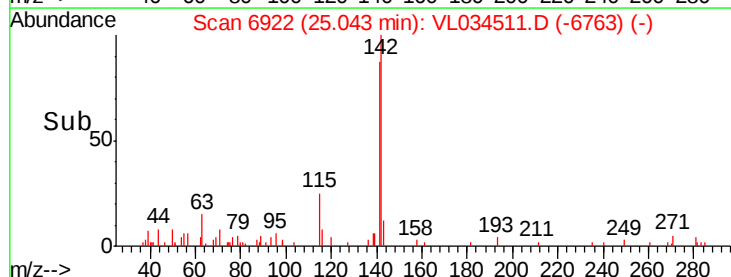
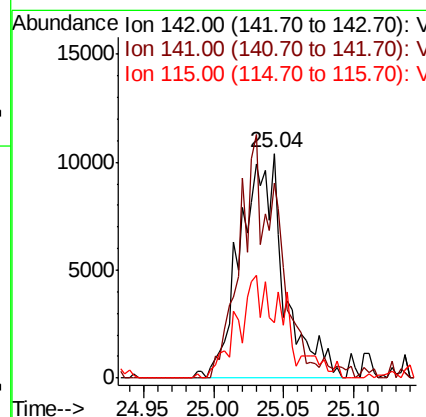
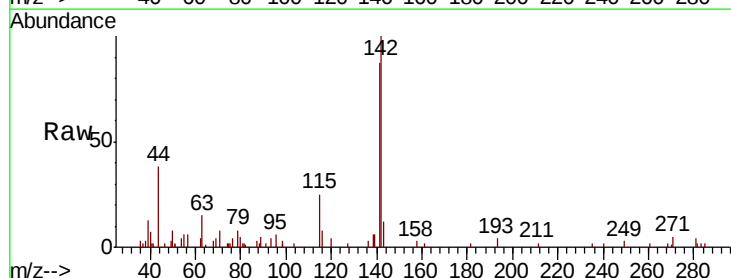
Manual Integrations
APPROVED

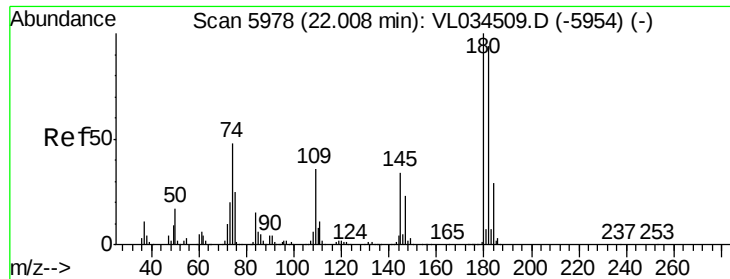
apatel
1/2/2020 10:48:39 AM



#80
Naphthalene, 2-methyl-
Concen: 0.167 ppbv
RT: 25.04 min Scan# 6922
Delta R.T. 0.01 min
Lab File: VL034511.D
Acq: 30 Dec 2019 11:43

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	22509		
141	98.0	65.8	98.8	
115	48.9	30.4	45.6	





#81
 1,2,4-Trichlorobenzene
 Concen: 0.787 ppbv m
 RT: 22.01 min Scan# 5980
 Delta R.T. 0.01 min
 Lab File: VL034511.D
 Acq: 30 Dec 2019 11:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	77.8	116.8#
184	30.7	25.2	37.8

Manual Integrations
 APPROVED

apatel
 1/2/2020 10:48:39 AM

