

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL083118\
 Data File : VL032433.D
 Acq On : 31 Aug 2018 1:49
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

apatel
 9/4/2018 8:25:28 AM

Quant Time: Aug 31 21:24:05 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL083118AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31

QLast Update : Fri Aug 31 04:25:10 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.81	49	2080711	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.34	114	4190563	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.30	117	4074396	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.63	95	3025609	9.96	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.11	85	310201	1.66	ppbv	98
3) Chlorodifluoromethane	3.04	51	204997	1.14	ppbv	97
4) Chloromethane	3.20	50	118370	1.07	ppbv	99
5) Vinyl Chloride	3.33	62	111103	1.14	ppbv	98
6) Bromomethane	3.55	94	63048	1.06	ppbv	99
7) Chloroethane	3.64	64	40074	1.04	ppbv	89
8) Dichlorotetrafluoroethane	3.25	85	257484	1.12	ppbv	100
9) Propene	3.07	41	73571	1.03	ppbv	98
10) Heptane	8.30	43	273154	1.06	ppbv	97
11) Trichlorofluoromethane	4.04	101	267431	1.15	ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.59	101	176622	1.13	ppbv	96
13) Ethanol	3.70	45	30317m	1.32	ppbv	
14) Bromoethene	3.83	108	72388	1.07	ppbv	98
15) Acetone	3.95	43	210032	1.06	ppbv	99
16) 1,3-Butadiene	3.40	39	89001	1.08	ppbv	95
17) tert-Butyl alcohol	4.42	59	30329m	0.93	ppbv	
18) 1,1-Dichloroethene	4.40	96	75807	1.06	ppbv	89
19) Isopropyl Alcohol	4.08	45	133362	1.07	ppbv #	95
20) Methylene Chloride	4.45	84	77682	1.05	ppbv	96
21) Allyl Chloride	4.52	41	129986	1.04	ppbv	98
22) trans-1,2-Dichloroethene	5.01	96	87263	1.13	ppbv	92
23) Vinyl Acetate	5.20	43	318364	1.04	ppbv #	98
24) 1,1-Dichloroethane	5.13	63	278668	1.14	ppbv	100
25) Ethyl Acetate	5.82	43	464202	1.11	ppbv	99
26) Hexane	5.83	57	204305	1.09	ppbv	91
27) Carbon Disulfide	4.67	76	183702	1.02	ppbv #	89
28) Methyl tert-Butyl Ether	5.17	73	248033	1.07	ppbv	100
29) Chloroform	5.89	83	316748	1.09	ppbv	98
30) Cyclohexane	7.31	84	135830	0.98	ppbv	96
31) cis-1,2-Dichloroethene	5.68	61	176567	1.03	ppbv	89
32) 1,1,1-Trichloroethane	6.67	97	293097	1.17	ppbv	98
34) 2-Butanone	5.38	43	297214	1.11	ppbv	97
35) Carbon Tetrachloride	7.18	117	283756	1.09	ppbv	99
36) Benzene	7.05	78	369721	1.07	ppbv	95
37) 1,2-Dichloroethane	6.46	62	231771	1.08	ppbv	100
38) Trichloroethene	8.01	130	145807	1.26	ppbv	92
39) 1,2-Dichloropropane	7.78	63	156142	1.07	ppbv	94
40) 1,4-Dioxane	8.04	88	54620m	1.26	ppbv	
41) Tetrahydrofuran	6.22	42	149221	1.05	ppbv	97
42) Bromodichloromethane	7.96	83	320131	1.09	ppbv	98
43) Methyl Methacrylate	8.19	69	145894	1.02	ppbv	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL083118\
 Data File : VL032433.D
 Acq On : 31 Aug 2018 1:49
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

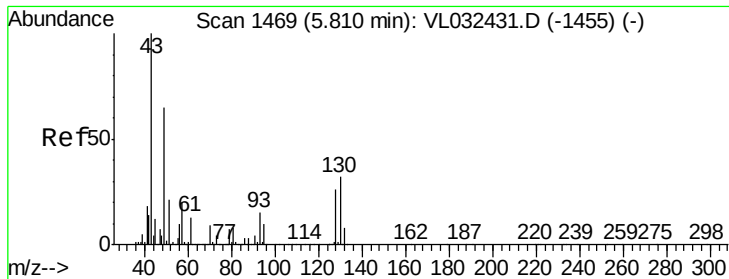
Manual Integrations
 APPROVED

apatel
 9/4/2018 8:25:28 AM

Quant Time: Aug 31 21:24:05 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL083118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31 2018
 QLast Update : Fri Aug 31 04:25:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.04	57	777653	1.20	ppbv	97
45) t-1,3-Dichloropropene	9.47	75	137503m	0.81	ppbv	
46) cis-1,3-Dichloropropene	8.89	75	191549	0.92	ppbv	99
47) 1,1,2-Trichloroethane	9.66	97	178752m	1.15	ppbv	
48) Dibromochloromethane	10.50	129	232312	1.06	ppbv	98
49) Bromoform	13.25	173	200073	1.04	ppbv	98
50) 4-Methyl-2-Pentanone	8.94	43	425786	1.03	ppbv	97
51) 2-Hexanone	10.34	43	258022	0.94	ppbv #	93
52) Tetrachloroethene	11.42	164	114440	1.15	ppbv	91
53) Toluene	10.00	91	339205	0.93	ppbv	96
54) 1,2-Dibromoethane	10.81	107	231153m	1.03	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.33	131	203549	1.16	ppbv #	1
57) Chlorobenzene	12.35	112	358077	1.15	ppbv	98
58) Ethyl Benzene	12.92	91	479945	1.03	ppbv	97
59) m/p-Xylene	13.21	91	915404m	2.21	ppbv	
60) o-Xylene	13.91	91	462412	1.16	ppbv	98
61) Styrene	13.74	104	260666	0.98	ppbv	99
62) Isopropylbenzene	14.88	105	630666	1.12	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.89	83	416369	1.20	ppbv	99
64) n-propylbenzene	15.78	120	164073	1.11	ppbv	87
65) tert-Butylbenzene	16.96	119	560183	1.16	ppbv	96
66) Benzyl Chloride	17.21	91	276897	0.92	ppbv	98
67) sec-Butylbenzene	17.51	105	846392	1.18	ppbv	100
69) p-Isopropyltoluene	17.86	119	640270	1.16	ppbv	98
70) n-Butylbenzene	18.77	91	746794	1.22	ppbv	97
71) 2-Chlorotoluene	15.67	91	467381	1.09	ppbv	99
72) 4-Ethyltoluene	16.05	105	478827	1.11	ppbv	98
73) 1,3,5-Trimethylbenzene	16.21	105	490154	1.18	ppbv	95
74) 1,2,4-Trimethylbenzene	16.98	105	565434	1.27	ppbv #	88
75) 1,3-Dichlorobenzene	17.21	146	336809	1.18	ppbv	99
76) 1,4-Dichlorobenzene	17.36	146	304992m	1.16	ppbv	
77) 1,2-Dichlorobenzene	18.04	146	322183	1.18	ppbv	99
78) Hexachloro-1,3-Butadiene	23.59	225	121030m	1.02	ppbv	
79) Naphthalene	22.48	128	409152	1.38	ppbv	97
80) Naphthalene, 2-methyl-	25.16	142	65609	0.84	ppbv	97
81) 1,2,4-Trichlorobenzene	22.20	180	209424	1.30	ppbv	98

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.81 min Scan# 1468

Delta R.T. -0.00 min

Lab File: VL032433.D

Acq: 31 Aug 2018 1:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 49 Resp: 2080711

Ion Ratio Lower Upper

49 100

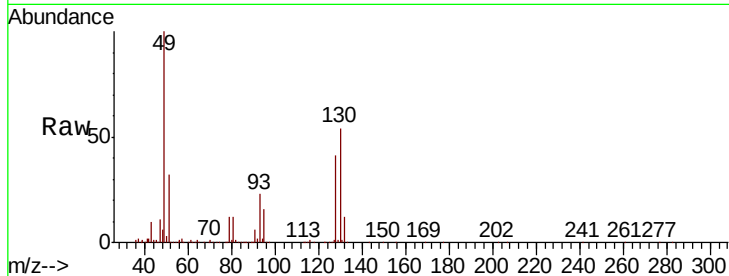
128 40.9 20.7 62.1

130 52.9 26.7 80.0

Manual Integrations
APPROVED

apatel

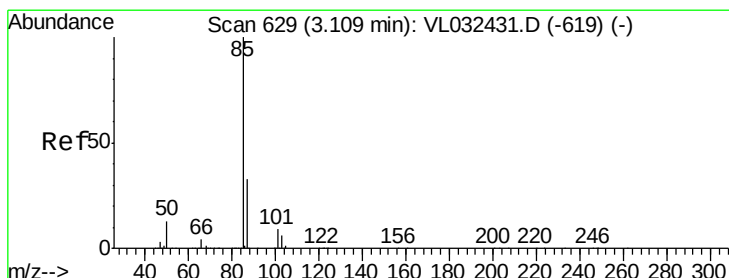
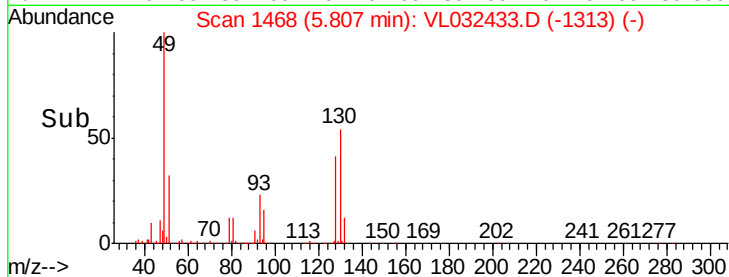
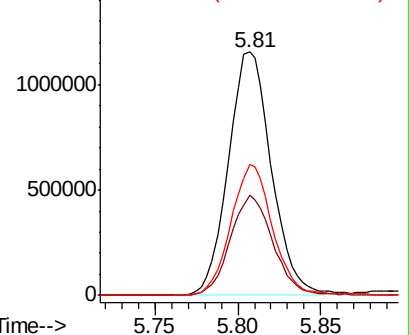
9/4/2018 8:25:28 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 1.66 ppbv

RT: 3.11 min Scan# 629

Delta R.T. 0.00 min

Lab File: VL032433.D

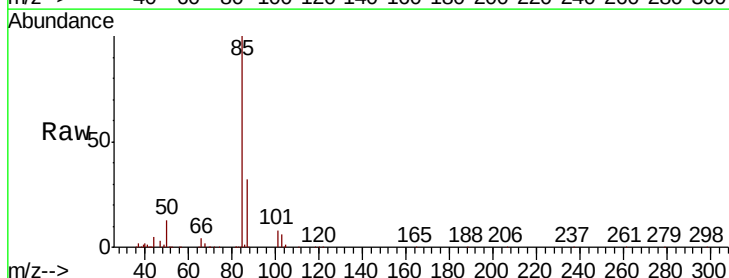
Acq: 31 Aug 2018 1:49

Tgt Ion: 85 Resp: 310201

Ion Ratio Lower Upper

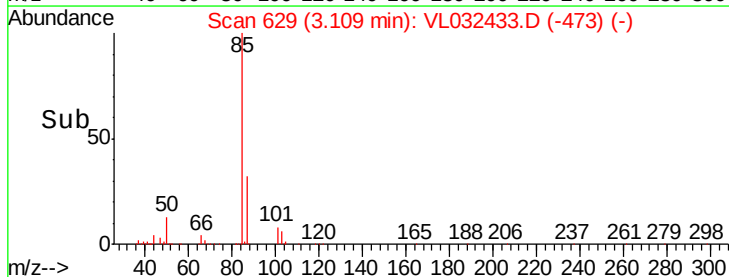
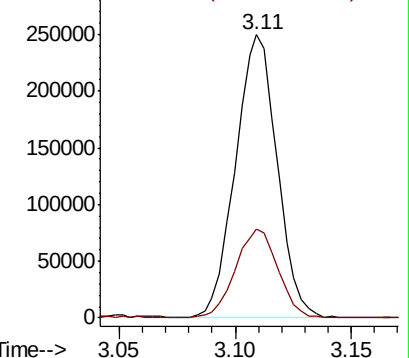
85 100

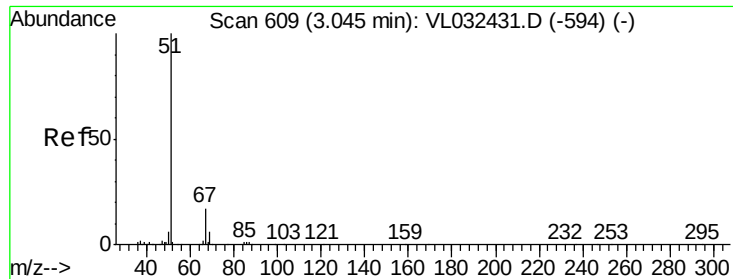
87 31.5 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.14 ppbv

RT: 3.04 min Scan# 609

Delta R.T. 0.00 min

Lab File: VL032433.D

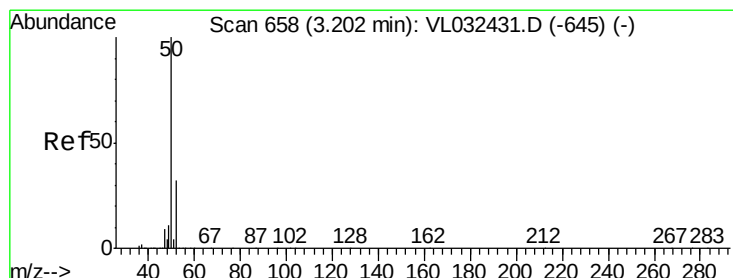
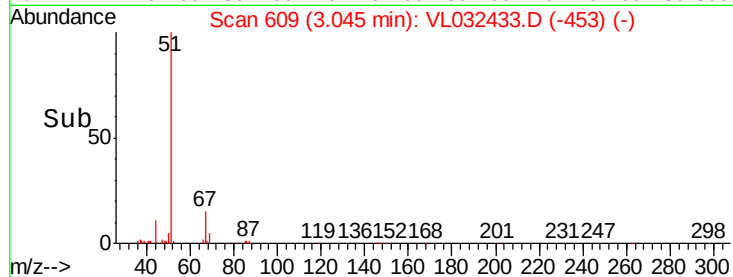
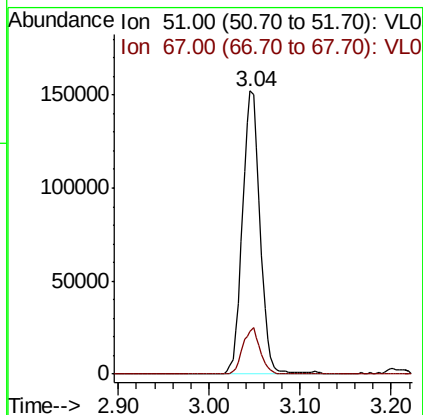
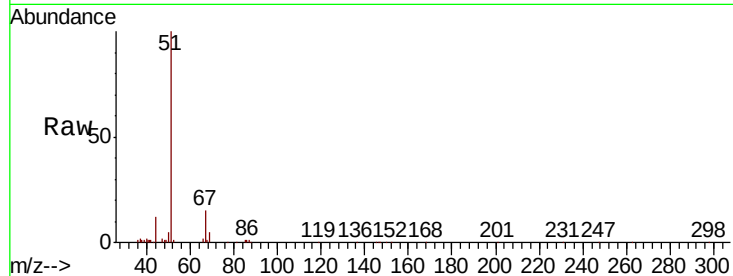
Acq: 31 Aug 2018 1:49

Tot Ion	Ratio	Lower	Upper
51	100		
67	16.0	13.8	20.8

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Manual Integrations
APPROVED

apatel
9/4/2018 8:25:28 AM



#4

Chloromethane

Concen: 1.07 ppbv

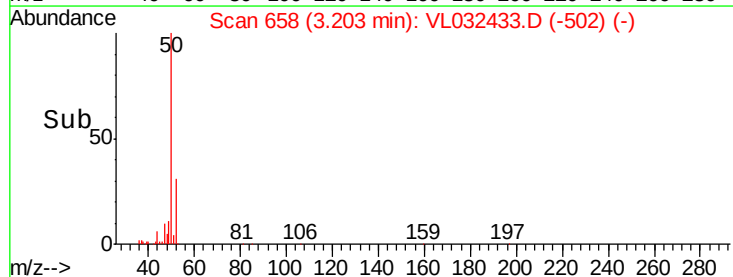
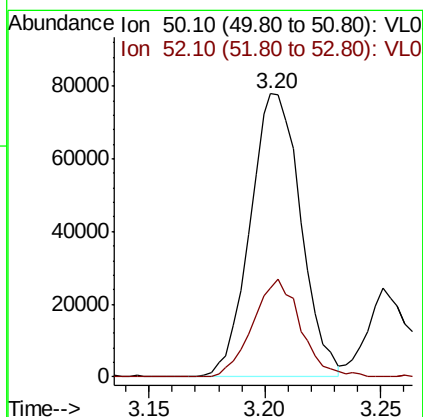
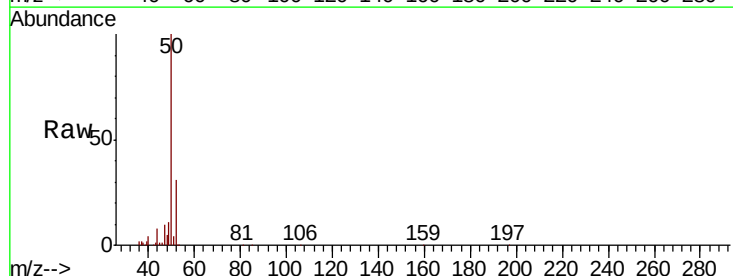
RT: 3.20 min Scan# 658

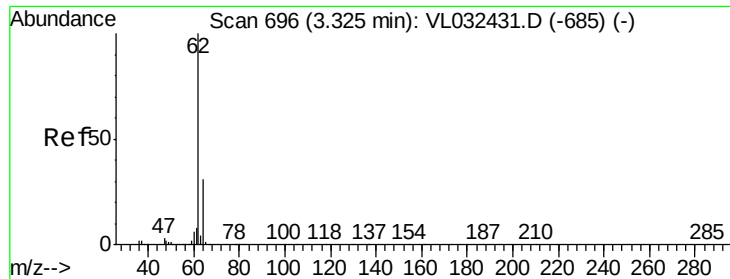
Delta R.T. 0.00 min

Lab File: VL032433.D

Acq: 31 Aug 2018 1:49

Tgt Ion	Ratio	Lower	Upper
50	100		
52	31.6	25.6	38.4





#5

Vinyl Chloride

Concen: 1.14 ppbv

RT: 3.33 min Scan# 697

Delta R.T. 0.00 min

Lab File: VL032433.D

Acq: 31 Aug 2018 1:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 62 Resp: 111103

Ion Ratio Lower Upper

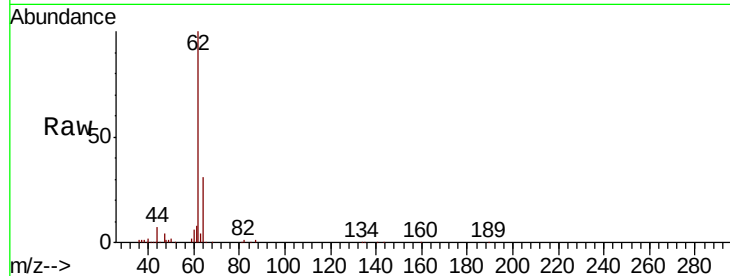
62 100

64 30.3 25.0 37.6

Manual Integrations
APPROVED

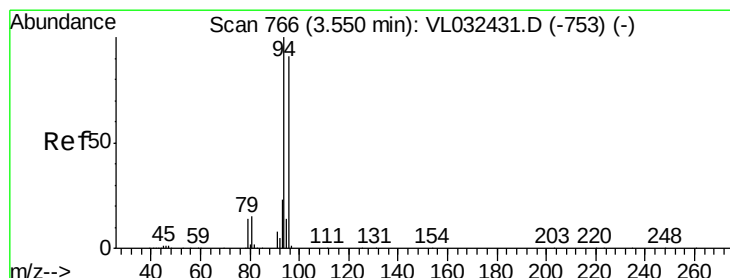
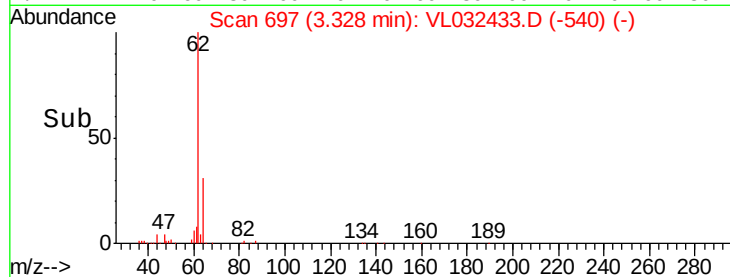
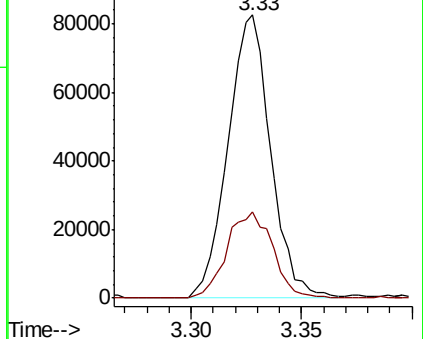
apatel

9/4/2018 8:25:28 AM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 1.06 ppbv

RT: 3.55 min Scan# 767

Delta R.T. 0.00 min

Lab File: VL032433.D

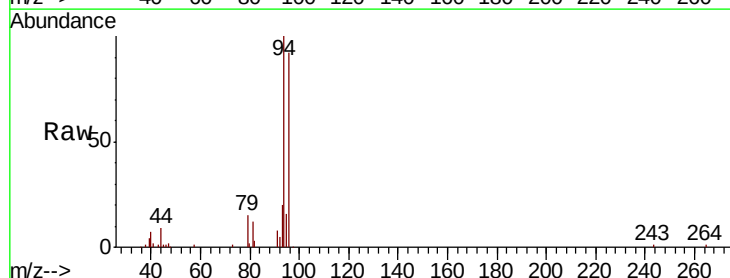
Acq: 31 Aug 2018 1:49

Tgt Ion: 94 Resp: 63048

Ion Ratio Lower Upper

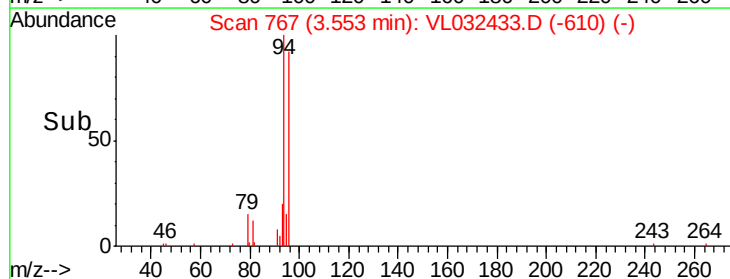
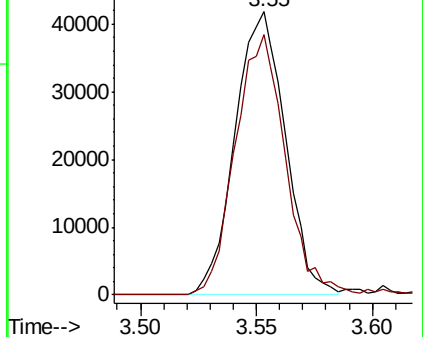
94 100

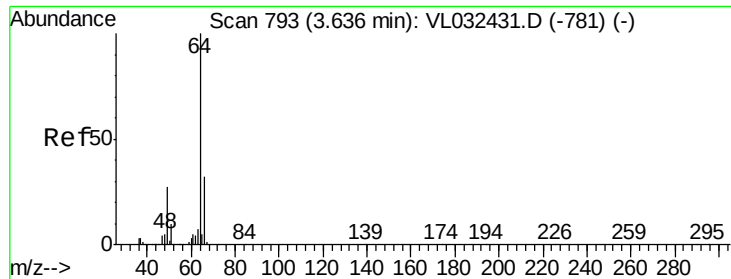
96 92.1 72.8 109.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 1.04 ppbv

RT: 3.64 min Scan# 794

Delta R.T. 0.00 min

Lab File: VL032433.D

Acq: 31 Aug 2018 1:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 64 Resp: 40074

Ion Ratio Lower Upper

64 100

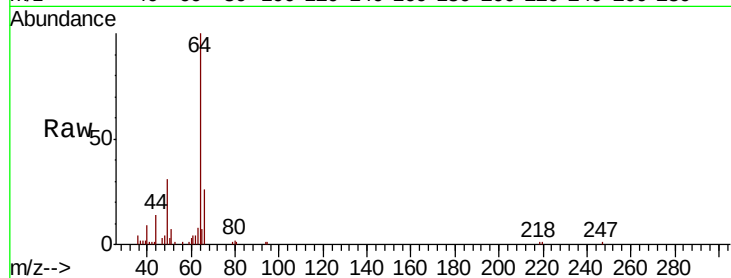
66 26.2 25.8 38.6

Manual Integrations

APPROVED

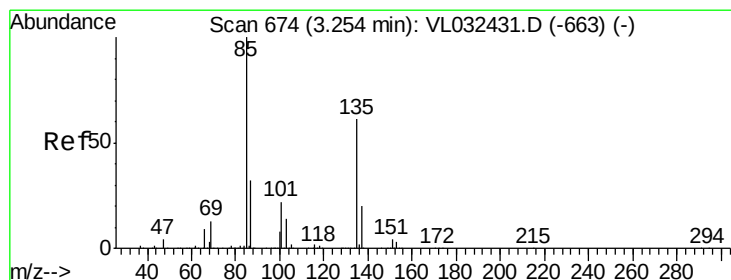
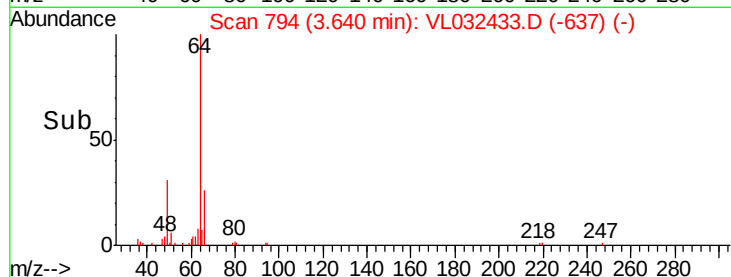
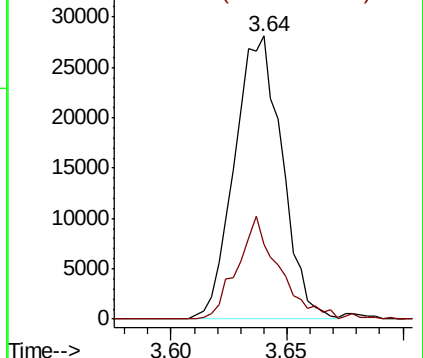
apatel

9/4/2018 8:25:28 AM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 1.12 ppbv

RT: 3.25 min Scan# 673

Delta R.T. -0.00 min

Lab File: VL032433.D

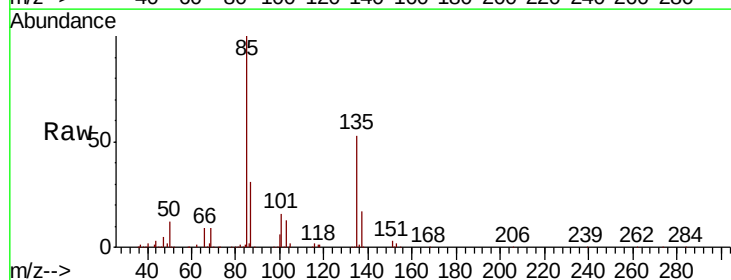
Acq: 31 Aug 2018 1:49

Tgt Ion: 85 Resp: 257484

Ion Ratio Lower Upper

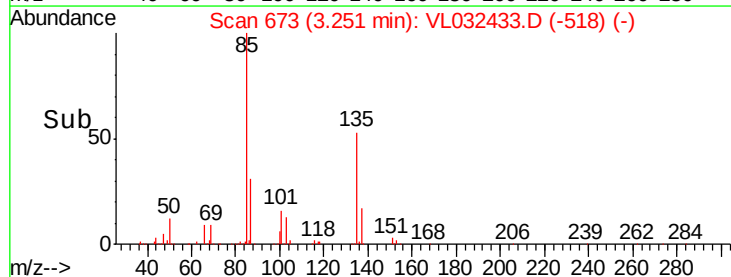
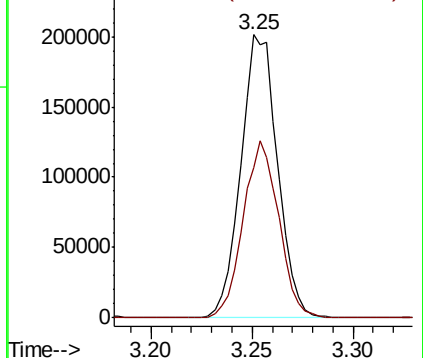
85 100

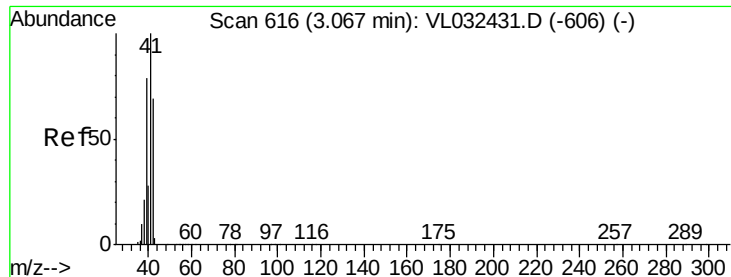
135 60.7 48.6 72.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 1.03 ppbv

RT: 3.07 min Scan# 616

Delta R.T. 0.00 min

Lab File: VL032433.D

Acq: 31 Aug 2018 1:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 41 Resp: 73571

Ion Ratio Lower Upper

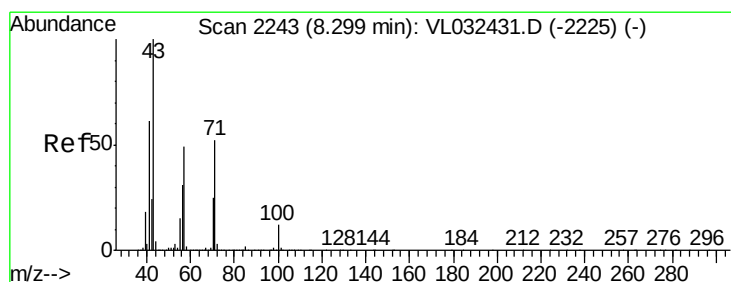
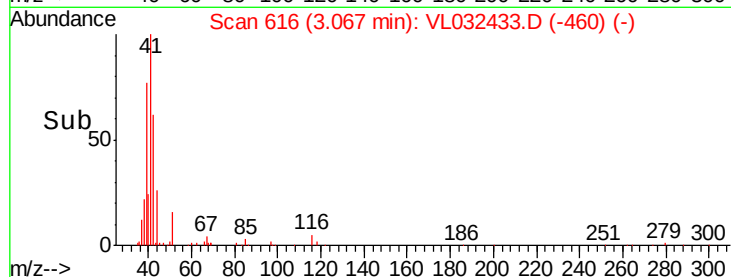
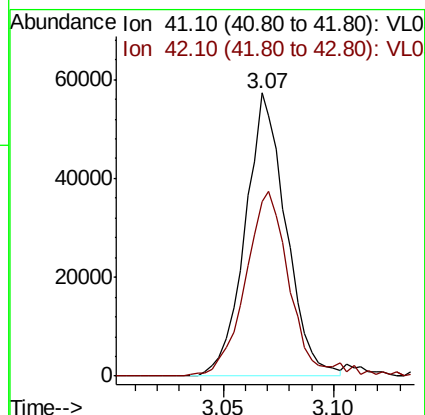
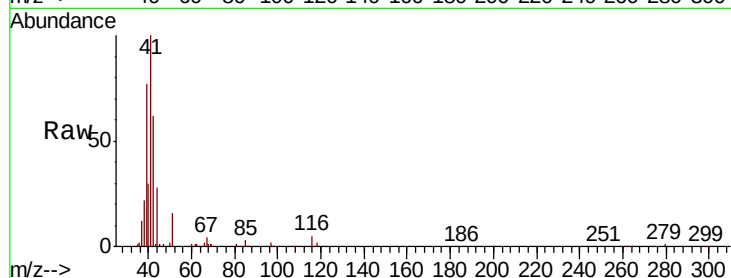
41 100

42 72.4 56.6 84.8

Manual Integrations
APPROVED

apatel

9/4/2018 8:25:28 AM



#10

Heptane

Concen: 1.06 ppbv

RT: 8.30 min Scan# 2244

Delta R.T. 0.00 min

Lab File: VL032433.D

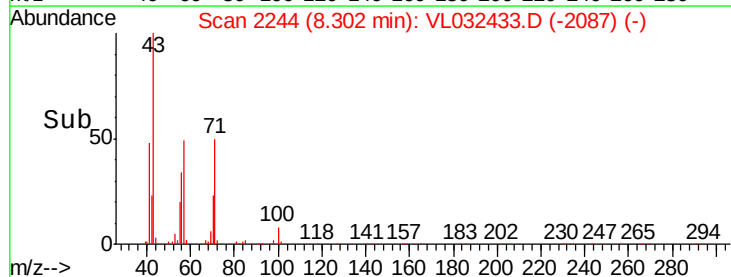
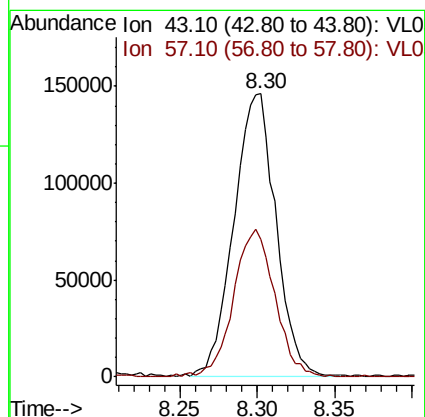
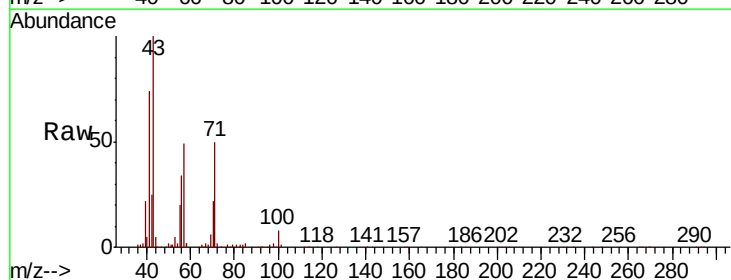
Acq: 31 Aug 2018 1:49

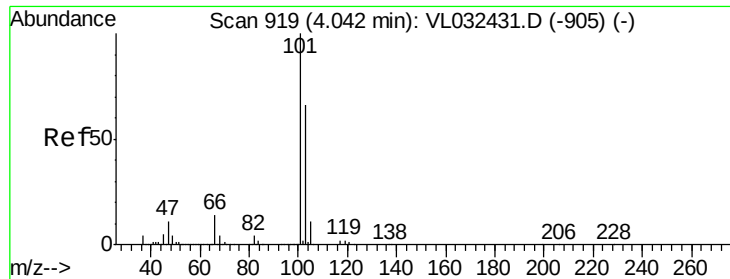
Tgt Ion: 43 Resp: 273154

Ion Ratio Lower Upper

43 100

57 52.1 39.8 59.6





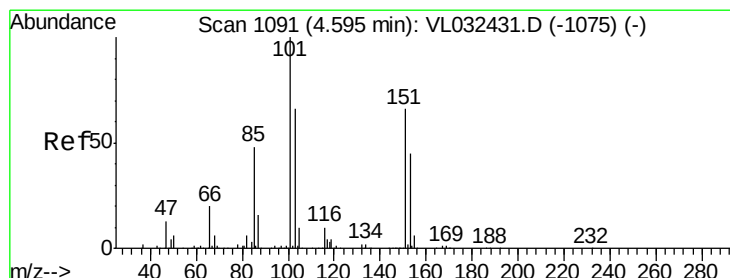
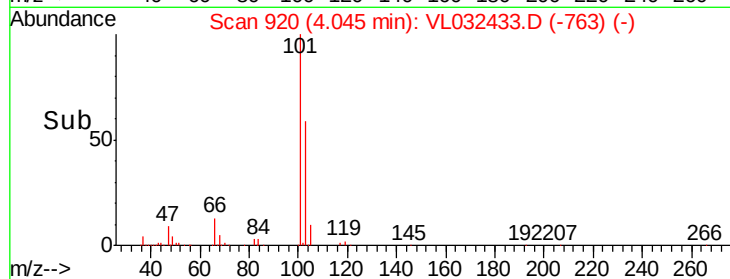
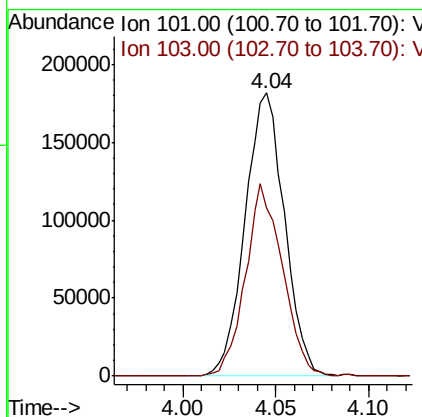
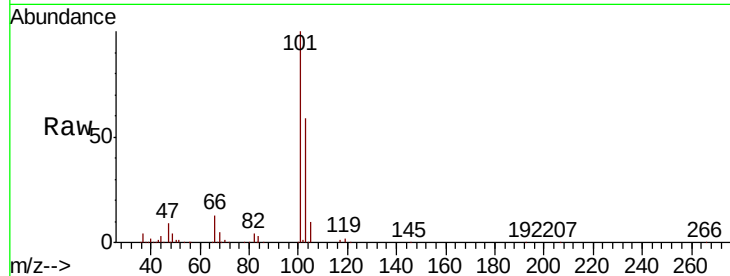
#11
 Trichlorofluoromethane
 Concen: 1.15 ppbv
 RT: 4.04 min Scan# 920
 Delta R.T. 0.00 min
 Lab File: VL032433.D
 Acq: 31 Aug 2018 1:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
101	100		
103	59.4	52.8	79.2

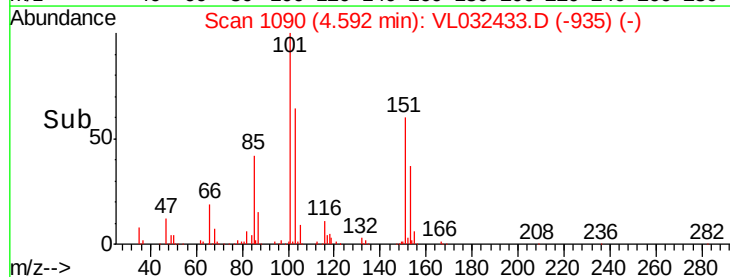
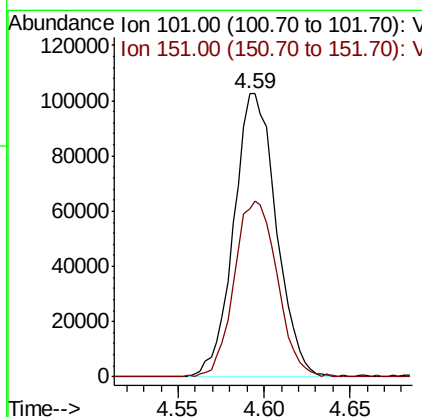
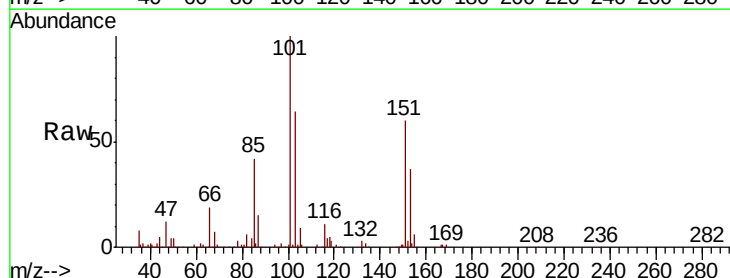
Manual Integrations
 APPROVED

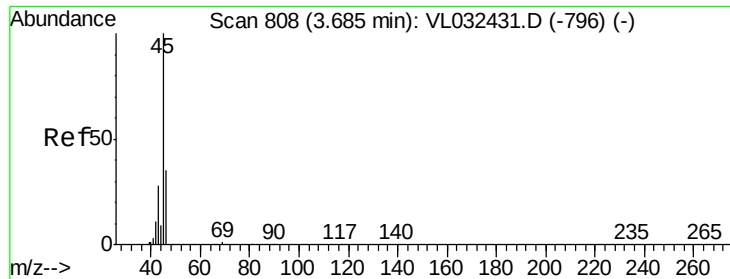
apatel
 9/4/2018 8:25:28 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.13 ppbv
 RT: 4.59 min Scan# 1090
 Delta R.T. -0.00 min
 Lab File: VL032433.D
 Acq: 31 Aug 2018 1:49

Tgt Ion	Ratio	Lower	Upper
101	100		
151	62.7	52.6	78.8





#13

Ethanol

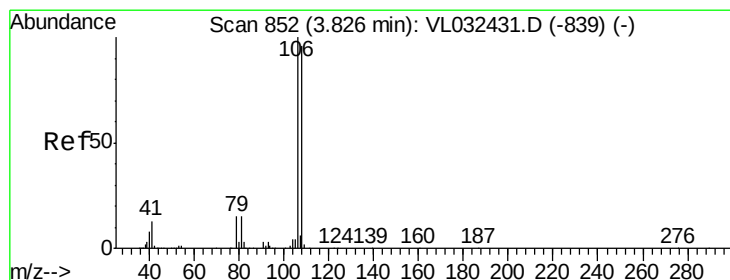
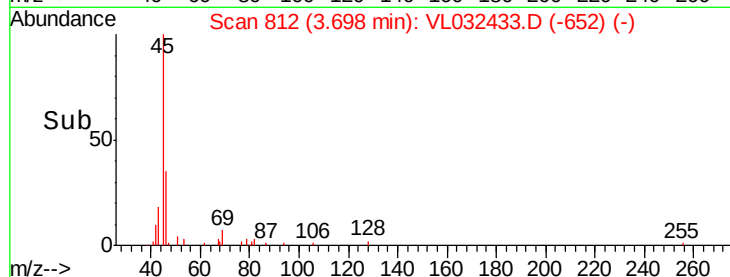
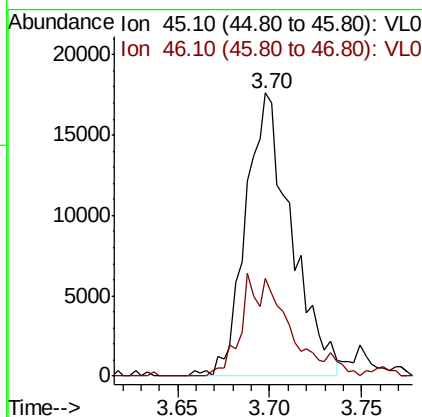
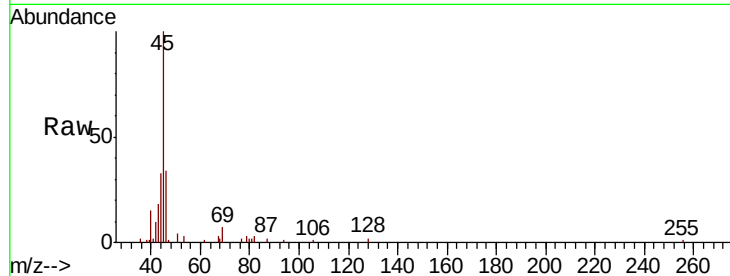
Concen: 1.32 ppbv m
 RT: 3.70 min Scan# 812
 Delta R.T. 0.01 min
 Lab File: VL032433.D
 Acq: 31 Aug 2018 1:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	45	Resp	30317
Ion Ratio	100	Lower	Upper
45	100		
46	37.5	13.9	55.7

Manual Integrations
 APPROVED

apatel
 9/4/2018 8:25:28 AM

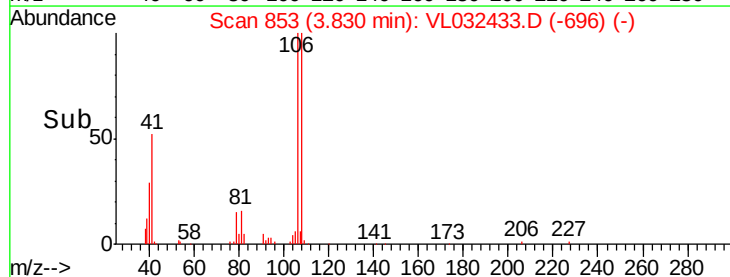
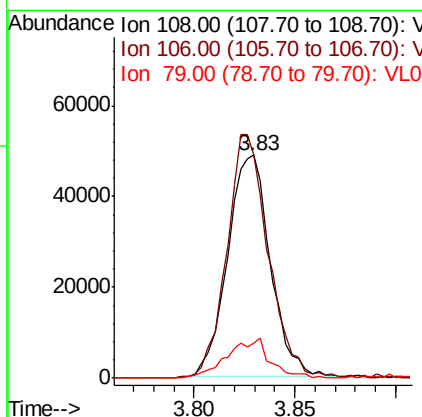
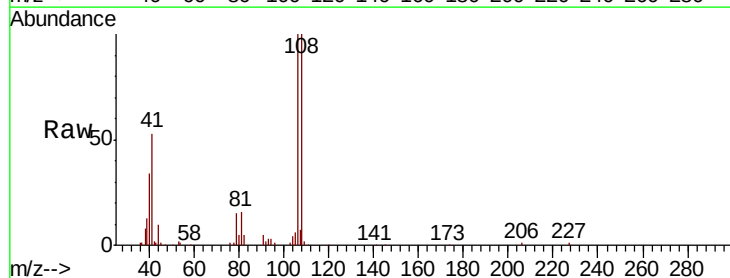


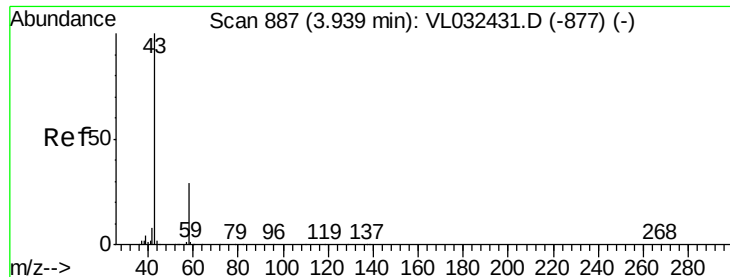
#14

Bromoethene

Concen: 1.07 ppbv
 RT: 3.83 min Scan# 853
 Delta R.T. 0.00 min
 Lab File: VL032433.D
 Acq: 31 Aug 2018 1:49

Tgt Ion	108	Resp	72388
Ion Ratio	100	Lower	Upper
108	100		
106	108.2	85.5	128.3
79	18.2	13.0	19.6





#15

Acetone

Concen: 1.06 ppbv

RT: 3.95 min Scan# 890

Delta R.T. 0.01 min

Lab File: VL032433.D

Acq: 31 Aug 2018 1:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 43 Resp: 210032

Ion Ratio Lower Upper

43 100

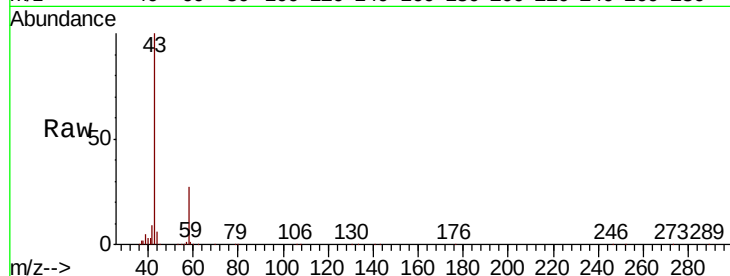
58 28.9 22.6 33.8

Manual Integrations

APPROVED

apatel

9/4/2018 8:25:28 AM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

150000

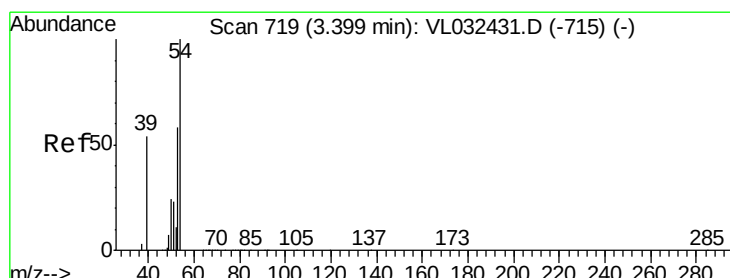
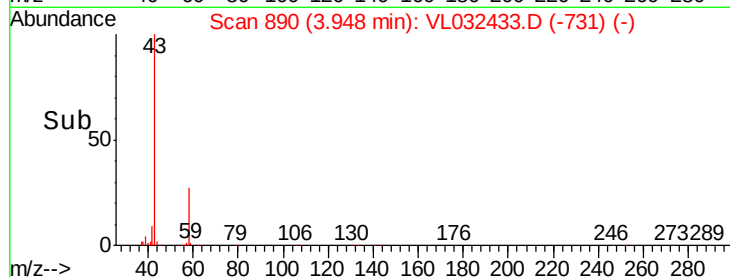
100000

50000

0

3.90 3.95 4.00

Time-->



#16

1,3-Butadiene

Concen: 1.08 ppbv

RT: 3.40 min Scan# 719

Delta R.T. 0.00 min

Lab File: VL032433.D

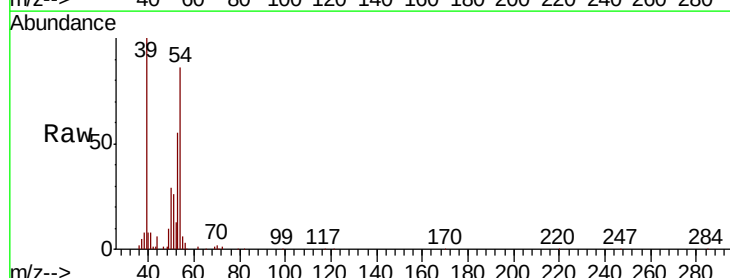
Acq: 31 Aug 2018 1:49

Tgt Ion: 39 Resp: 89001

Ion Ratio Lower Upper

39 100

54 95.5 80.8 121.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

80000

60000

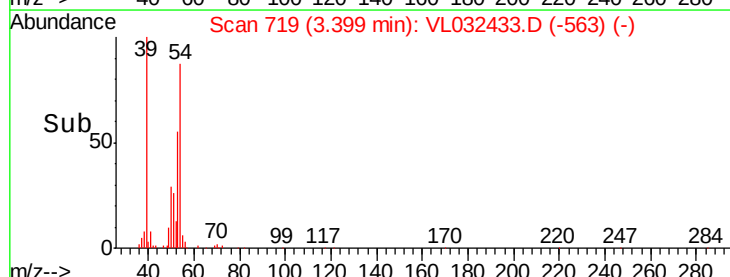
40000

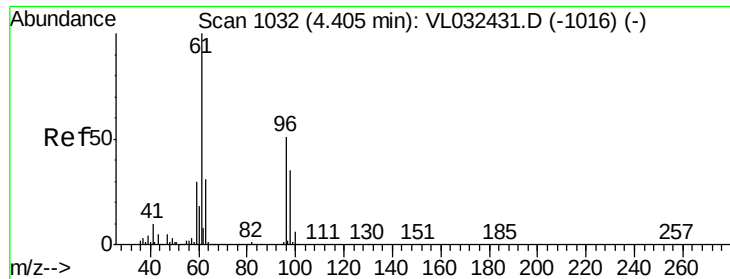
20000

0

3.38 3.40 3.42 3.44

Time-->





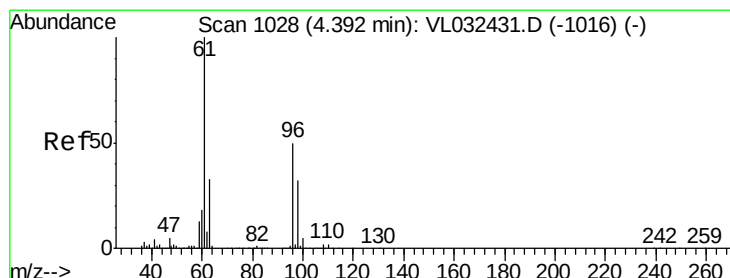
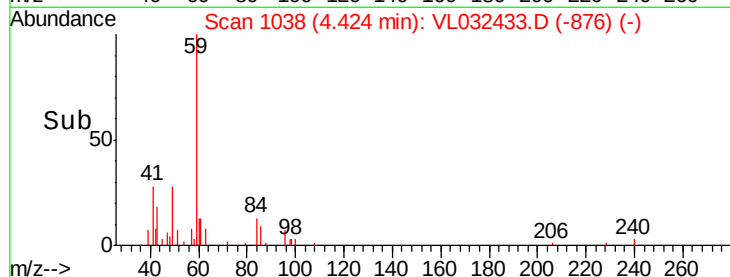
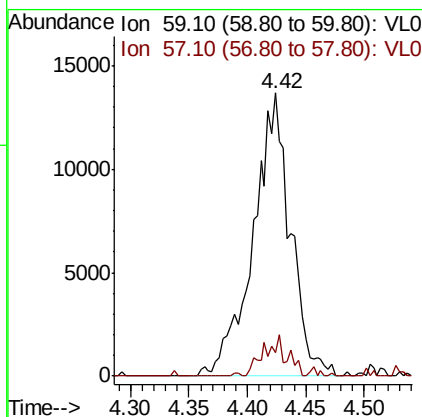
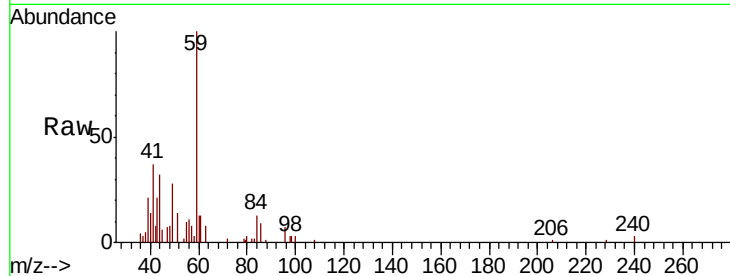
#17
 tert-Butyl alcohol
 Concen: 0.93 ppbv m
 RT: 4.42 min Scan# 1038
 Delta R.T. 0.02 min
 Lab File: VL032433.D
 Acq: 31 Aug 2018 1:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion: 59 Resp: 30329
 Ion Ratio Lower Upper
 59 100
 57 0.3 7.0 10.4#

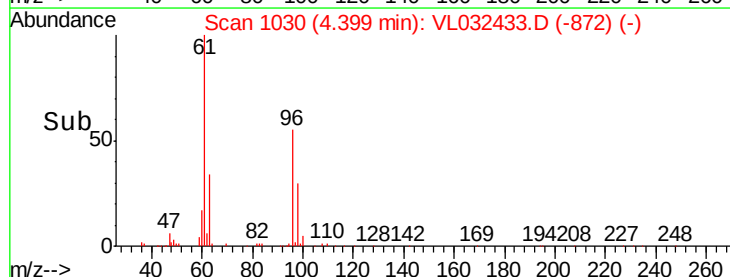
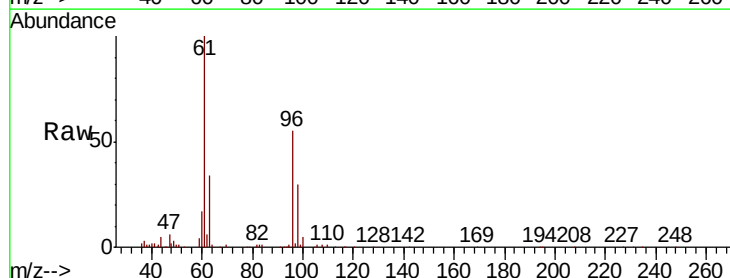
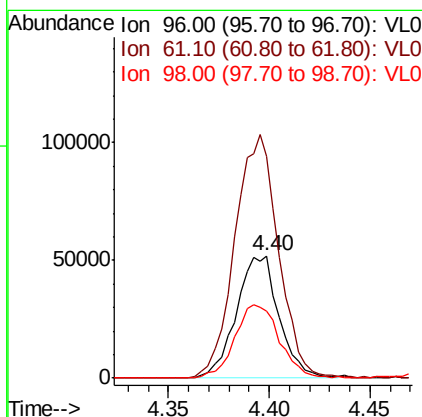
Manual Integrations
 APPROVED

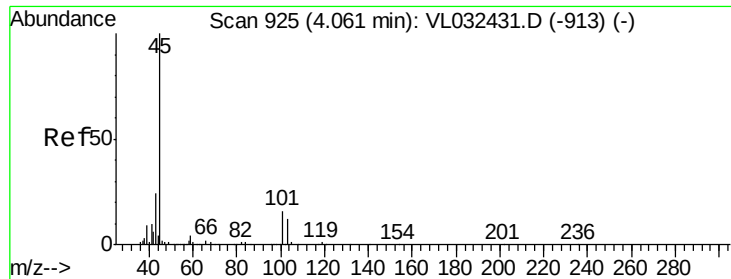
apatel
 9/4/2018 8:25:28 AM



#18
 1,1-Dichloroethene
 Concen: 1.06 ppbv
 RT: 4.40 min Scan# 1030
 Delta R.T. 0.01 min
 Lab File: VL032433.D
 Acq: 31 Aug 2018 1:49

Tgt Ion: 96 Resp: 75807
 Ion Ratio Lower Upper
 96 100
 61 181.7 159.2 238.8
 98 54.7 51.0 76.4





#19

Isopropyl Alcohol

Concen: 1.07 ppbv

RT: 4.08 min Scan# 930

Delta R.T. 0.02 min

Lab File: VL032433.D

Acq: 31 Aug 2018 1:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 45 Resp: 133362

Ion Ratio Lower Upper

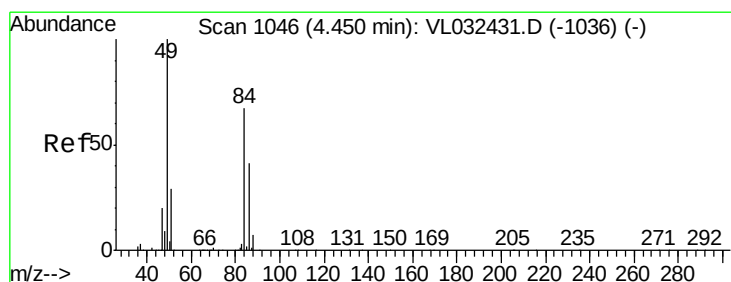
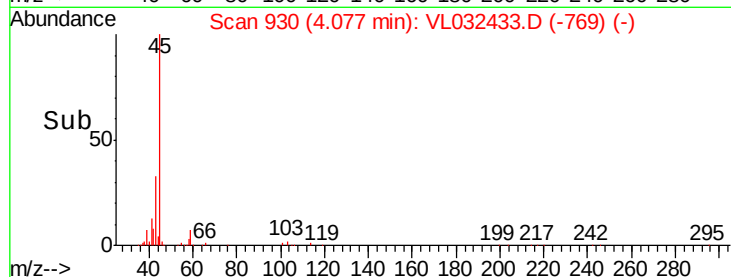
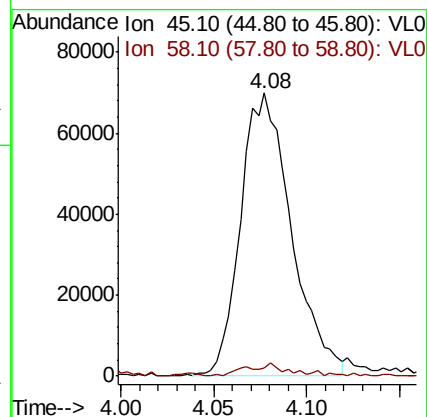
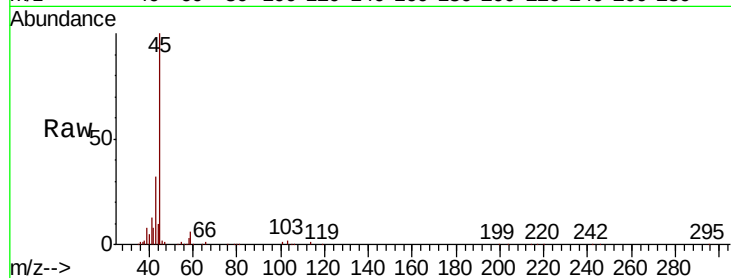
45 100

58 4.1 2.0 3.0#

Manual Integrations
APPROVED

apatel

9/4/2018 8:25:28 AM



#20

Methylene Chloride

Concen: 1.05 ppbv

RT: 4.45 min Scan# 1047

Delta R.T. 0.00 min

Lab File: VL032433.D

Acq: 31 Aug 2018 1:49

Tgt Ion: 84 Resp: 77682

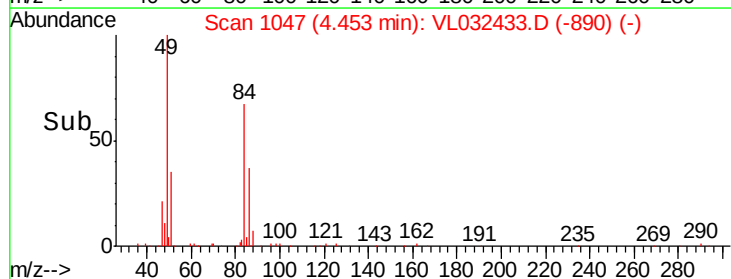
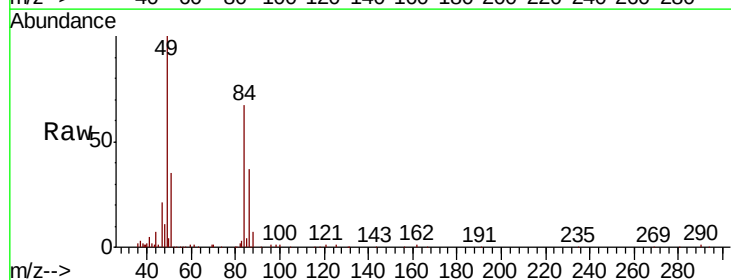
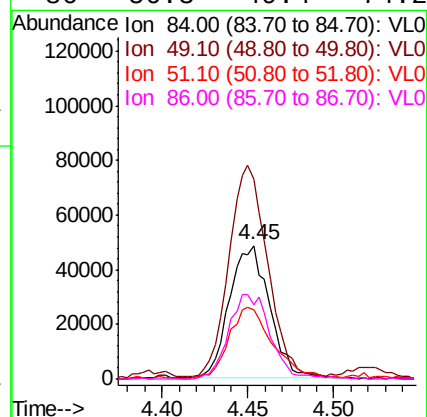
Ion Ratio Lower Upper

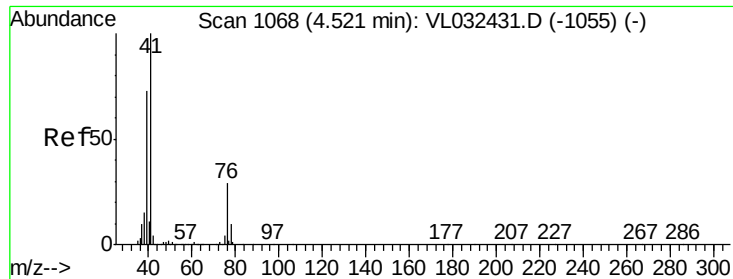
84 100

49 149.4 119.1 178.7

51 51.5 35.2 52.8

86 56.3 49.4 74.2





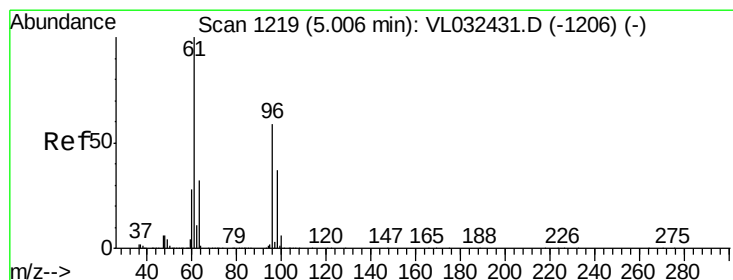
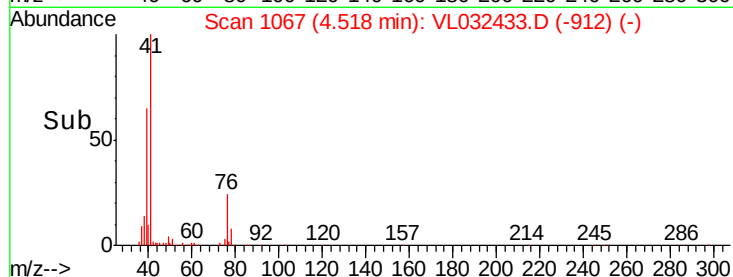
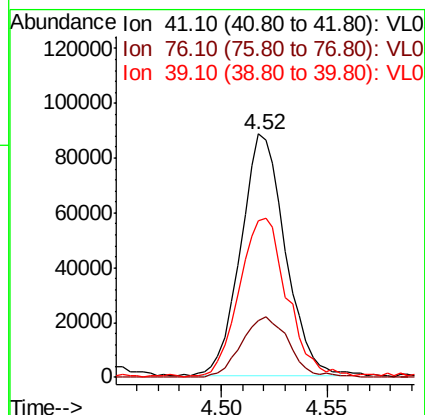
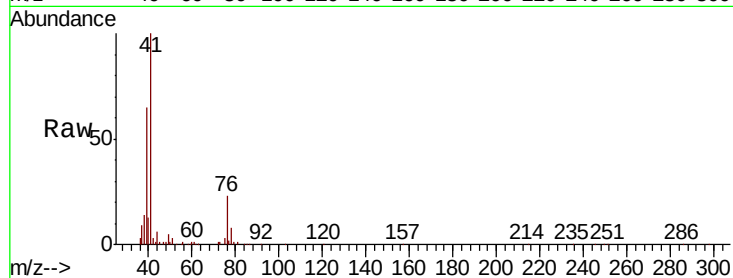
#21
Allvl Chloride
Concen: 1.04 ppbv
RT: 4.52 min Scan# 1067
Delta R.T. -0.00 min
Lab File: VL032433.D
Acq: 31 Aug 2018 1:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
41	100		
76	26.9	23.6	35.4
39	73.3	57.7	86.5

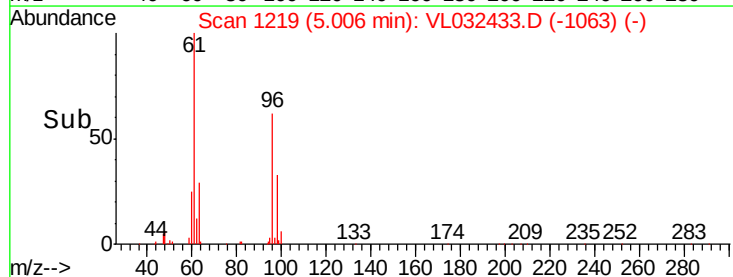
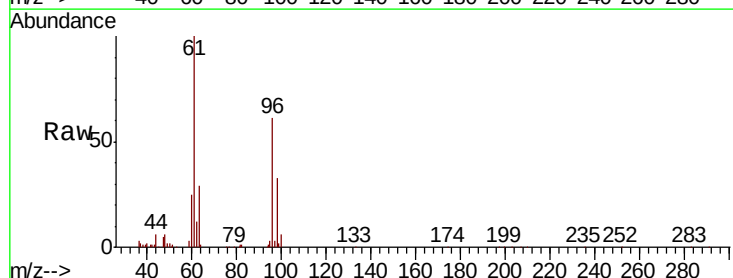
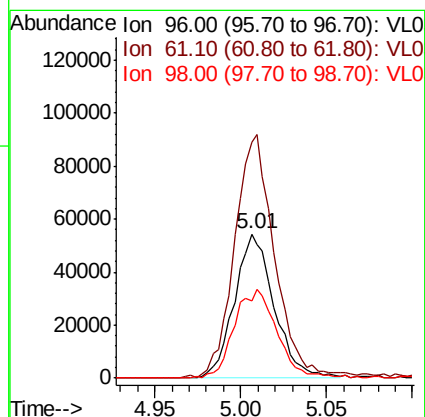
Manual Integrations
APPROVED

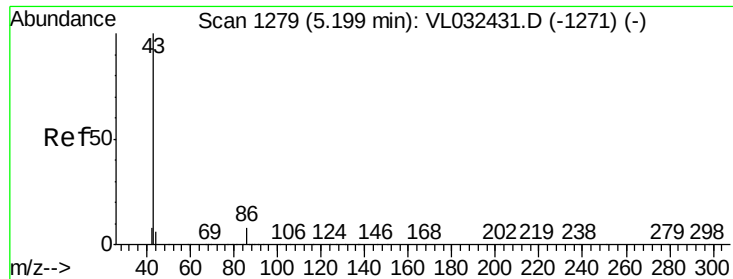
apatel
9/4/2018 8:25:28 AM



#22
trans-1,2-Dichloroethene
Concen: 1.13 ppbv
RT: 5.01 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VL032433.D
Acq: 31 Aug 2018 1:49

Tgt Ion	Ratio	Lower	Upper
96	100		
61	160.9	136.2	204.4
98	53.4	50.4	75.6





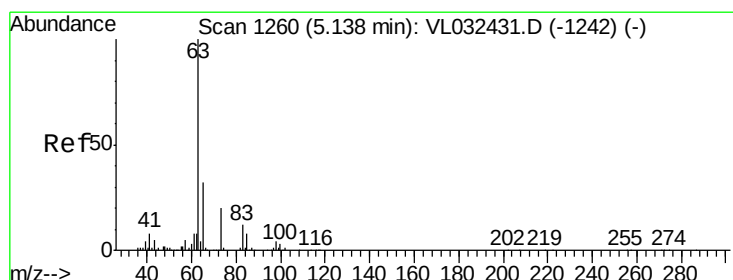
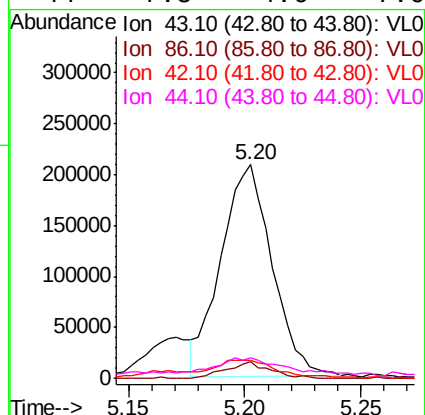
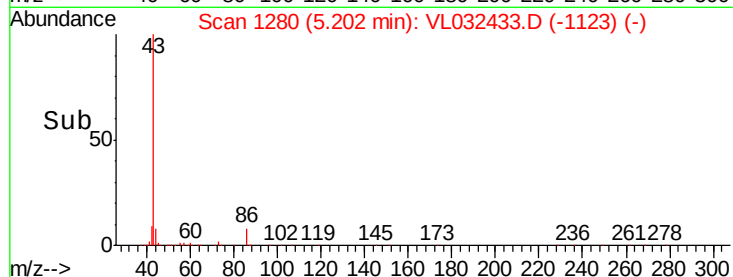
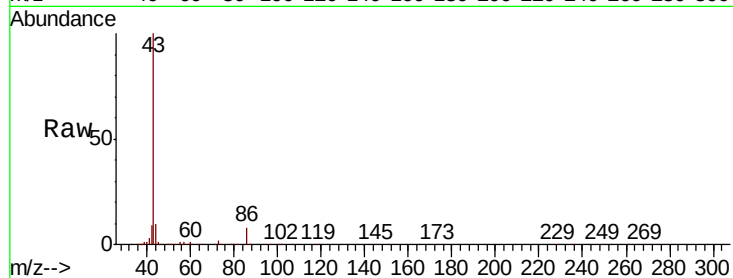
#23
 Vinyl Acetate
 Concen: 1.04 ppbv
 RT: 5.20 min Scan# 1280
 Delta R.T. 0.00 min
 Lab File: VL032433.D
 Acq: 31 Aug 2018 1:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
43	100		
86	7.9	5.9	8.9
42	8.2	6.9	10.3
44	7.5	4.6	7.0#

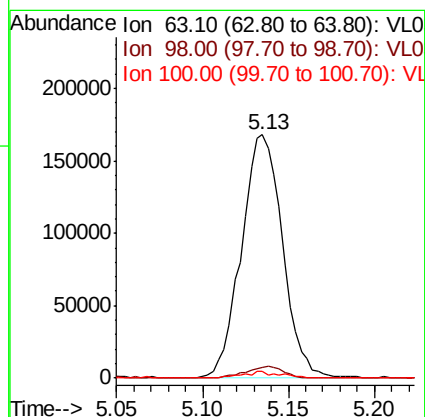
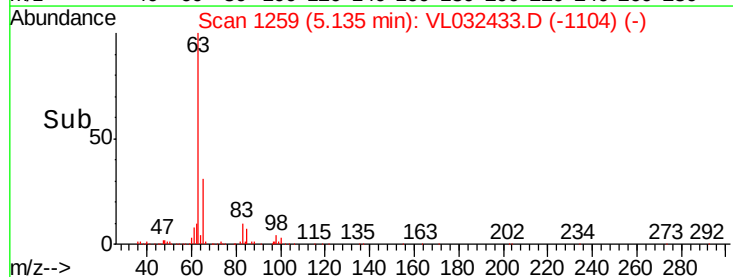
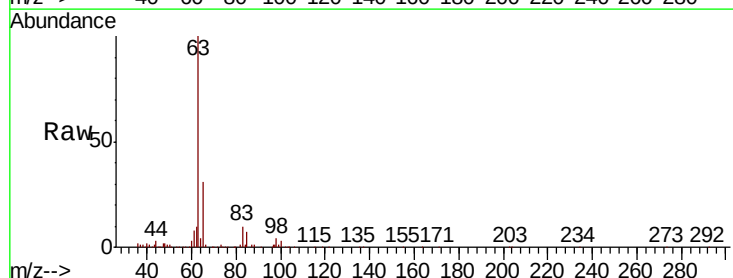
Manual Integrations
 APPROVED

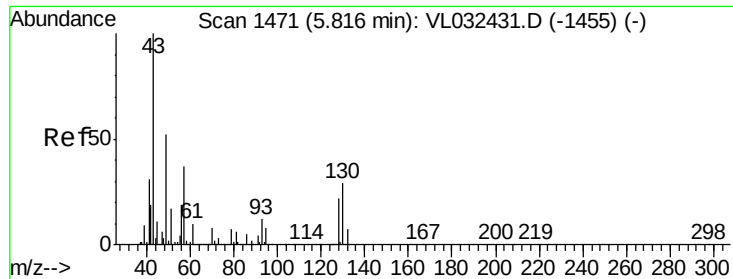
apatel
 9/4/2018 8:25:28 AM



#24
 1,1-Dichloroethane
 Concen: 1.14 ppbv
 RT: 5.13 min Scan# 1259
 Delta R.T. -0.00 min
 Lab File: VL032433.D
 Acq: 31 Aug 2018 1:49

Tgt Ion	Ratio	Lower	Upper
63	100		
98	4.2	2.1	6.5
100	3.0	1.5	4.4





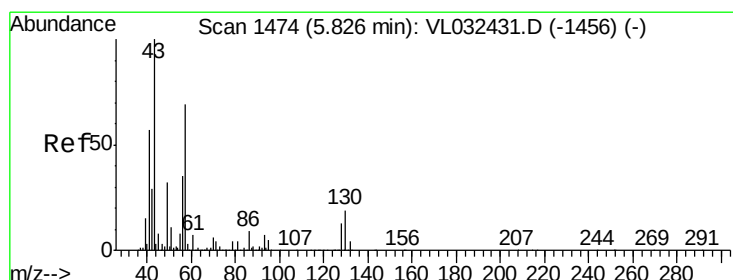
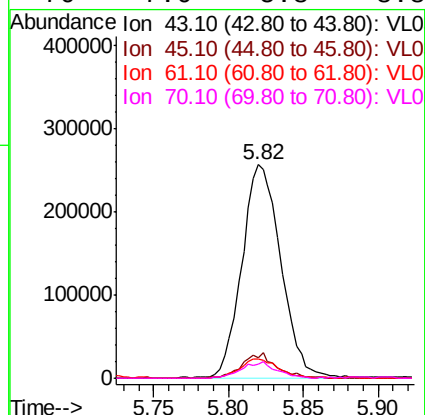
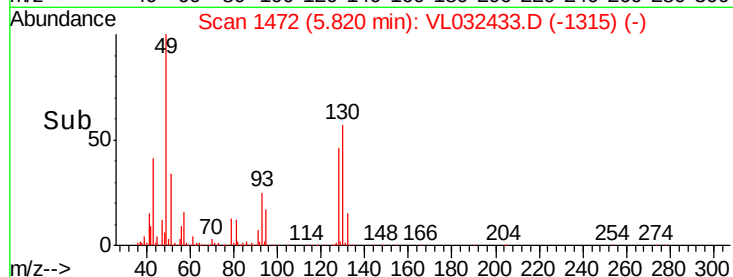
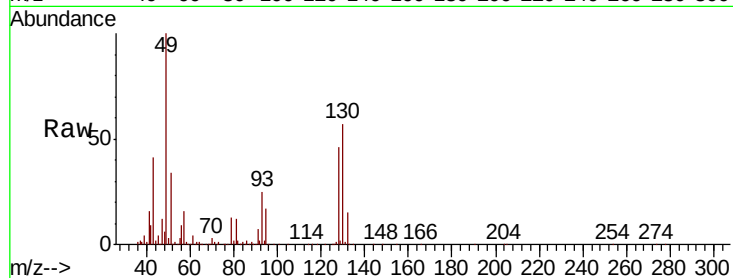
#25
Ethyl Acetate
Concen: 1.11 ppbv
RT: 5.82 min Scan# 1472
Delta R.T. 0.00 min
Lab File: VL032433.D
Acq: 31 Aug 2018 1:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100				
45	10.6	8.0	12.0		
61	9.3	7.6	11.4		
70	7.0	5.8	8.8		

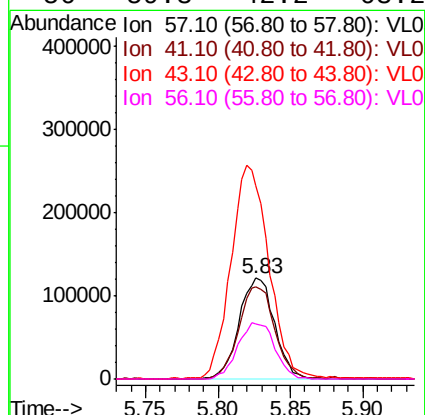
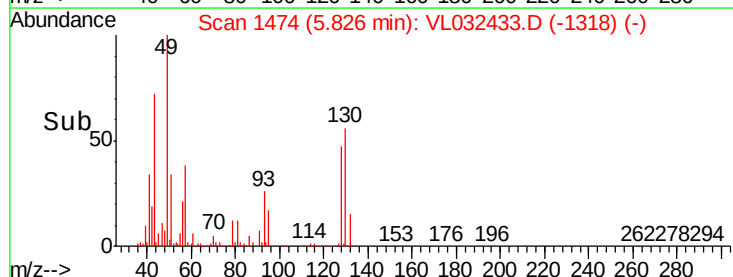
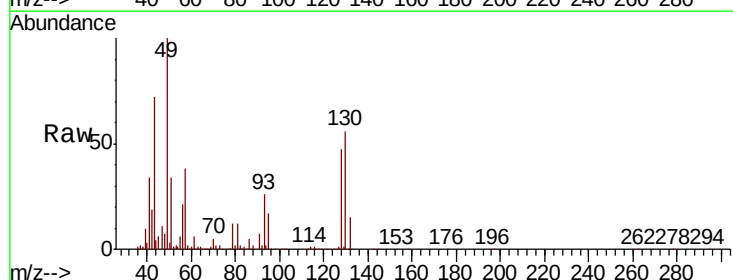
Manual Integrations
APPROVED

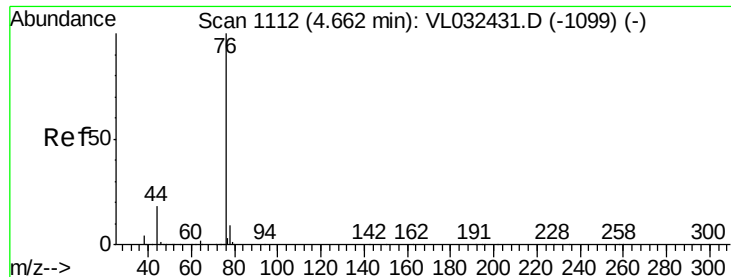
apatel
9/4/2018 8:25:28 AM



#26
Hexane
Concen: 1.09 ppbv
RT: 5.83 min Scan# 1474
Delta R.T. 0.00 min
Lab File: VL032433.D
Acq: 31 Aug 2018 1:49

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	94.6	68.4	102.6		
43	228.7	172.6	258.8		
56	59.3	42.2	63.2		





#27

Carbon Disulfide

Concen: 1.02 ppbv

RT: 4.67 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VL032433.D

Acq: 31 Aug 2018 1:49

Instrument :

MSVOA_L

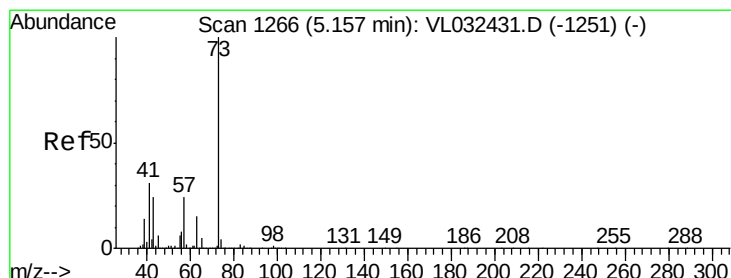
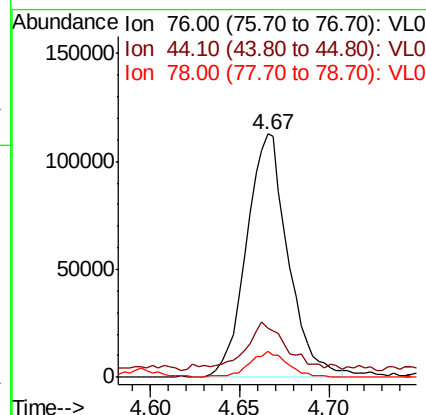
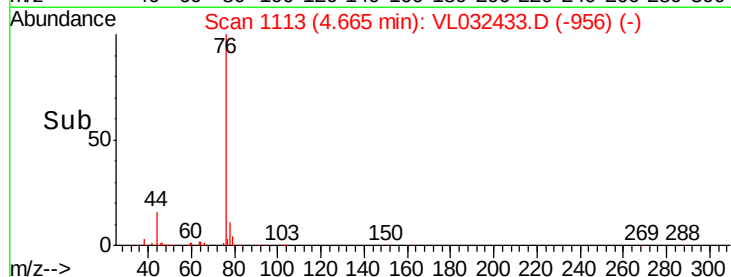
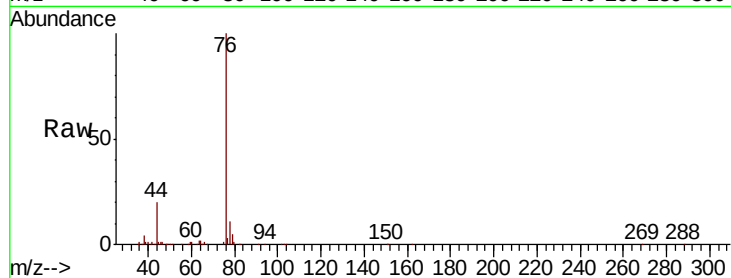
ClientSampleId :

VSTDIC001

Tot Ion:	76	Resp:	183702
Ion Ratio	Lower	Upper	
76	100		
44	24.5	14.0	21.0#
78	10.2	7.5	11.3

Manual Integrations
APPROVED

apatel
9/4/2018 8:25:28 AM



#28

Methyl tert-Butyl Ether

Concen: 1.07 ppbv

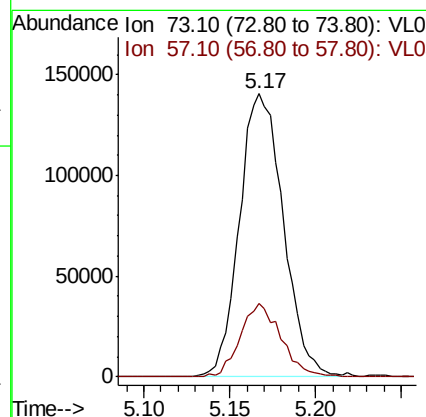
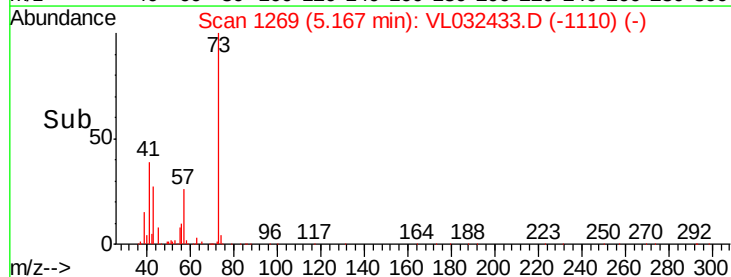
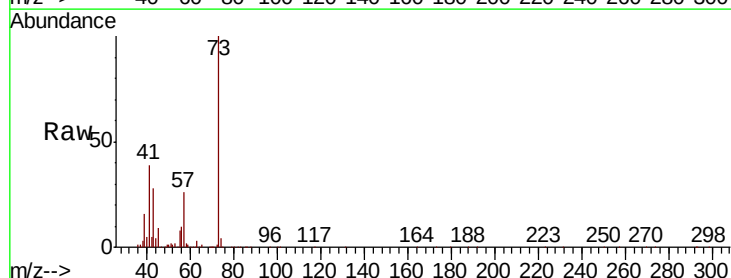
RT: 5.17 min Scan# 1269

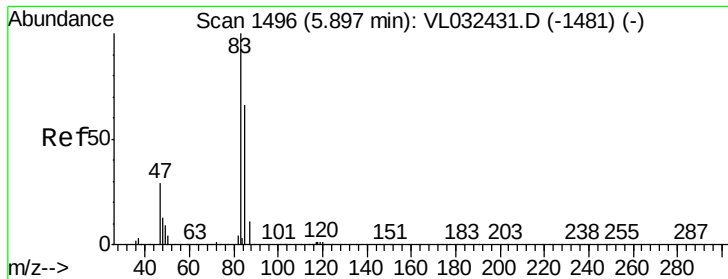
Delta R.T. 0.01 min

Lab File: VL032433.D

Acq: 31 Aug 2018 1:49

Tgt Ion:	73	Resp:	248033
Ion Ratio	Lower	Upper	
73	100		
57	24.2	19.3	28.9





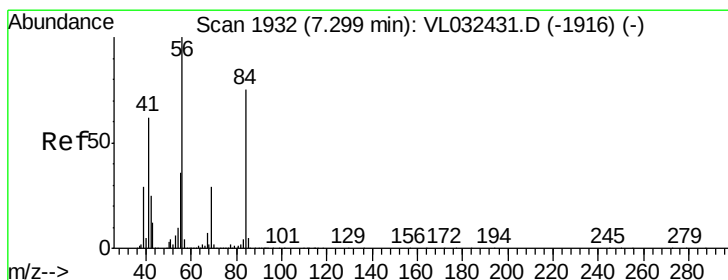
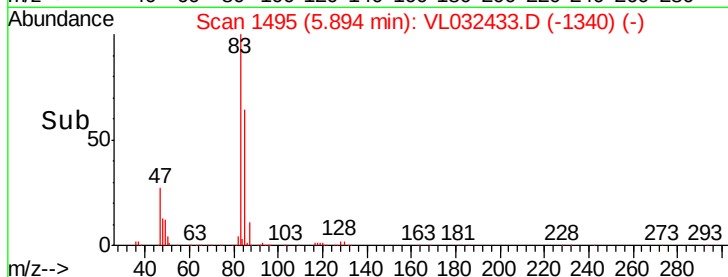
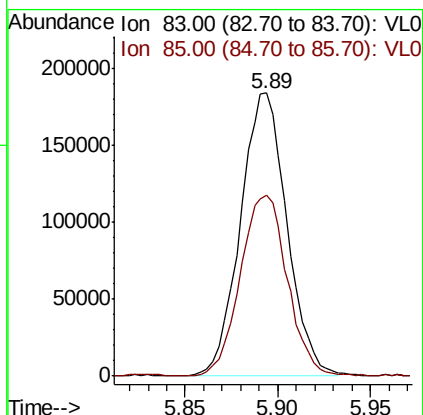
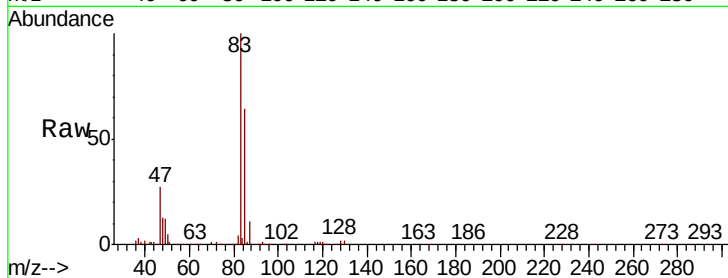
#29
Chloroform
Concen: 1.09 ppbv
RT: 5.89 min Scan# 1495
Delta R.T. -0.00 min
Lab File: VL032433.D
Acq: 31 Aug 2018 1:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	83	Resp	316748
Ion Ratio	100	Lower	Upper
83	100		
85	63.9	52.5	78.7

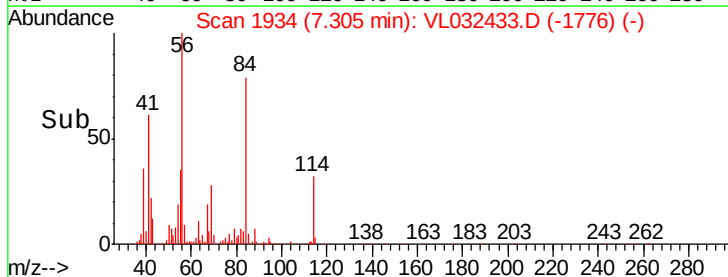
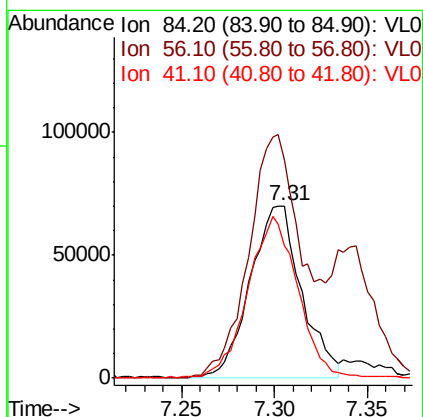
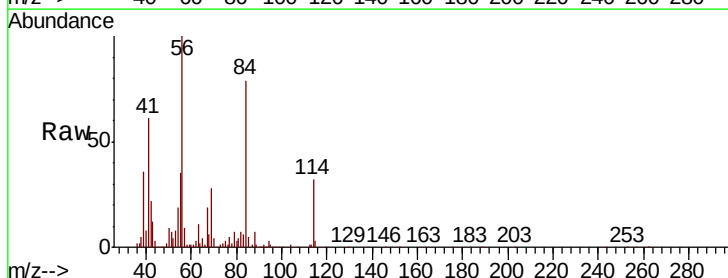
Manual Integrations
APPROVED

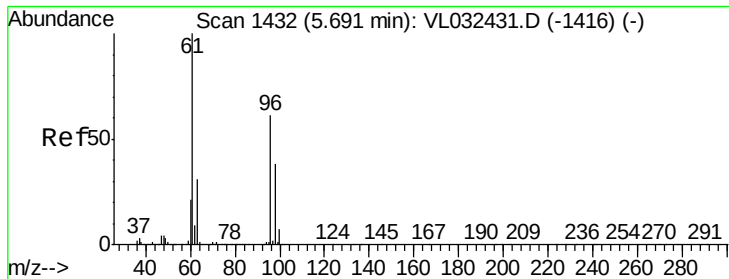
apatel
9/4/2018 8:25:28 AM



#30
Cyclohexane
Concen: 0.98 ppbv
RT: 7.31 min Scan# 1934
Delta R.T. 0.01 min
Lab File: VL032433.D
Acq: 31 Aug 2018 1:49

Tgt Ion	84	Resp	135830
Ion Ratio	100	Lower	Upper
84	100		
56	143.2	113.5	170.3
41	92.2	68.0	102.0





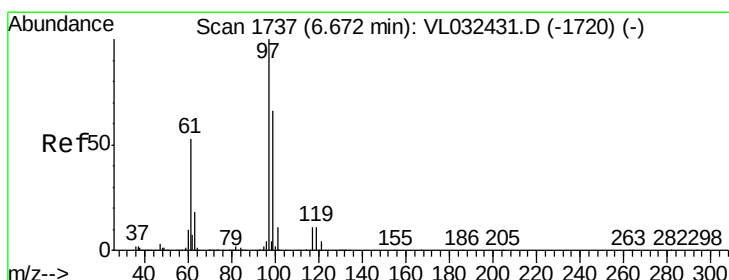
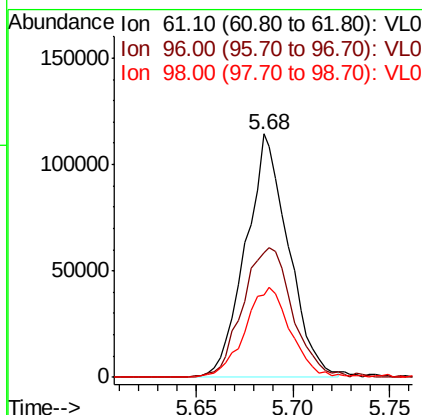
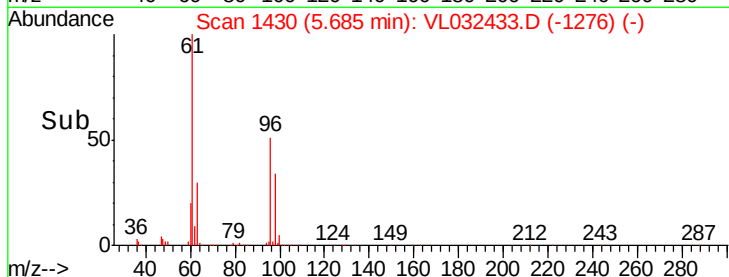
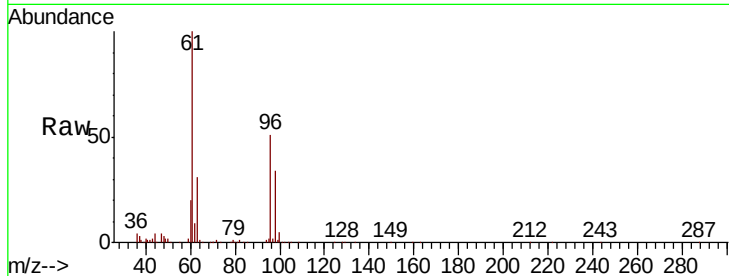
#31
 cis-1,2-Dichloroethene
 Concen: 1.03 ppbv
 RT: 5.68 min Scan# 1430
 Delta R.T. -0.01 min
 Lab File: VL032433.D
 Acq: 31 Aug 2018 1:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
61	100		
96	51.1	49.2	73.8
98	34.0	30.7	46.1

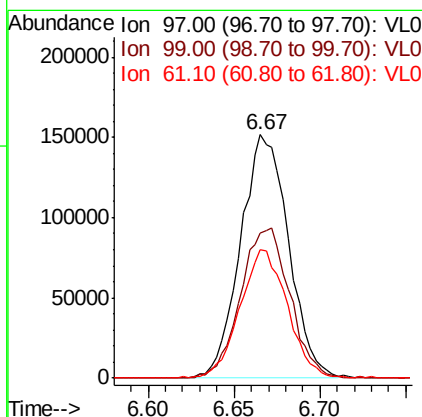
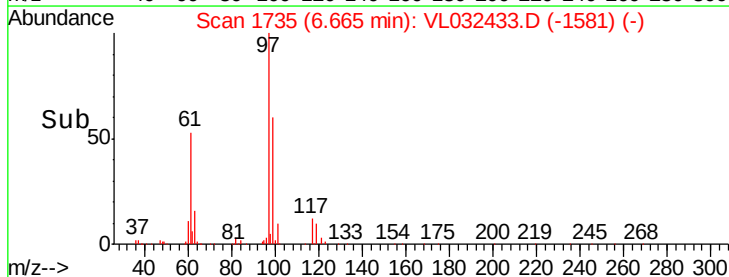
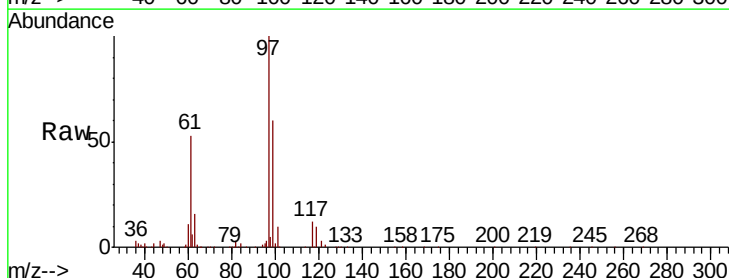
Manual Integrations
 APPROVED

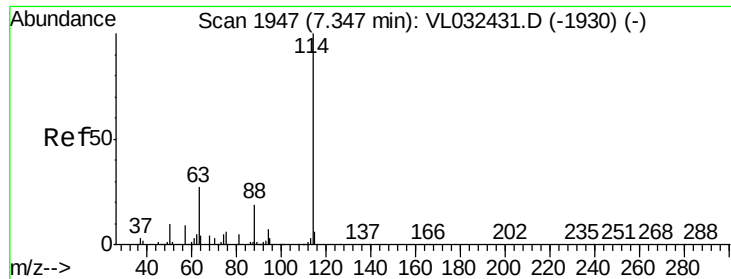
apatel
 9/4/2018 8:25:28 AM



#32
 1,1,1-Trichloroethane
 Concen: 1.17 ppbv
 RT: 6.67 min Scan# 1735
 Delta R.T. -0.01 min
 Lab File: VL032433.D
 Acq: 31 Aug 2018 1:49

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.1	52.1	78.1
61	52.4	42.6	64.0





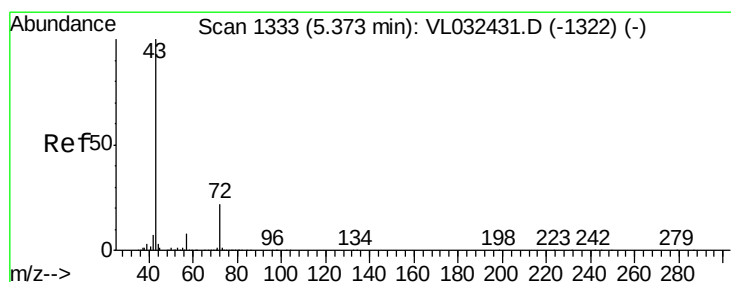
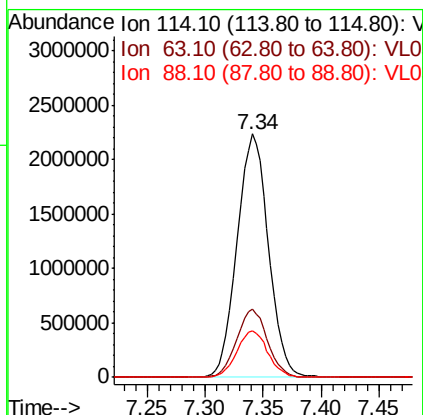
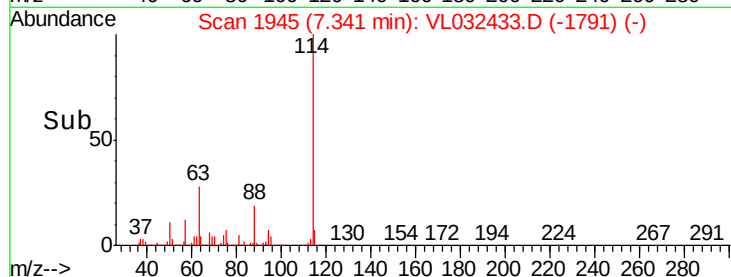
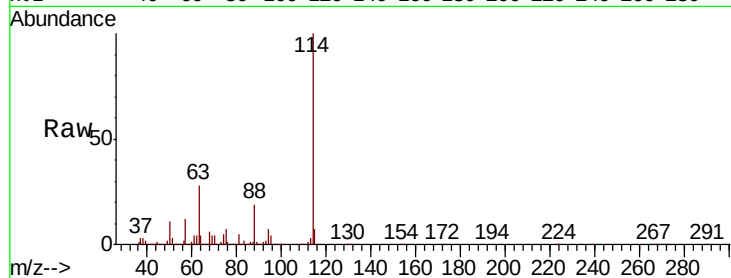
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.34 min Scan# 1945
 Delta R.T. -0.01 min
 Lab File: VL032433.D
 Acq: 31 Aug 2018 1:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.7	22.1	33.1
88	18.9	15.0	22.6

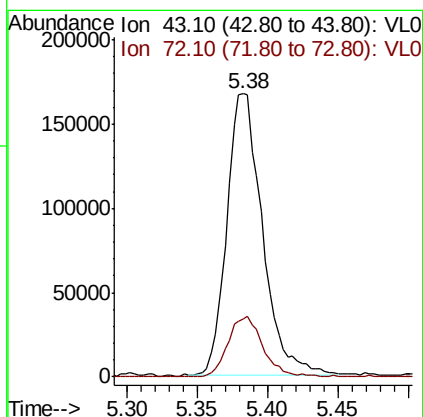
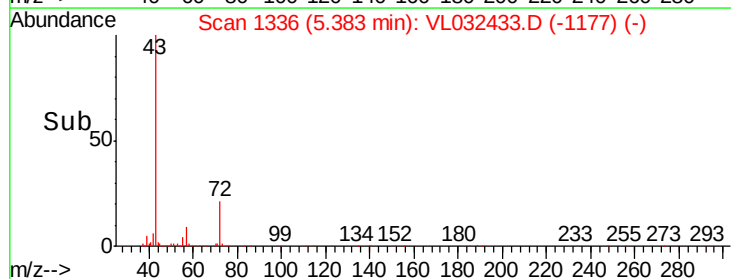
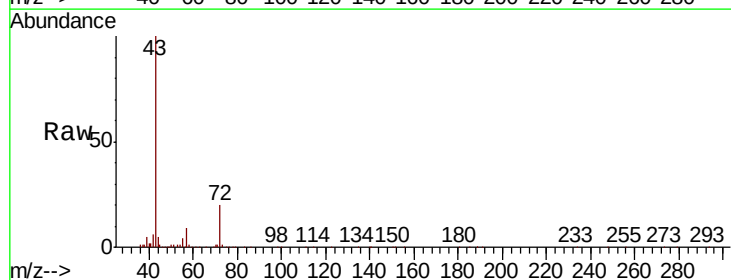
Manual Integrations
 APPROVED

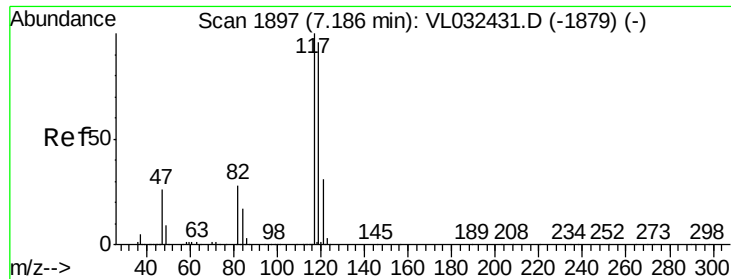
apatel
 9/4/2018 8:25:28 AM



#34
 2-Butanone
 Concen: 1.11 ppbv
 RT: 5.38 min Scan# 1336
 Delta R.T. 0.01 min
 Lab File: VL032433.D
 Acq: 31 Aug 2018 1:49

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.0	17.8	26.6





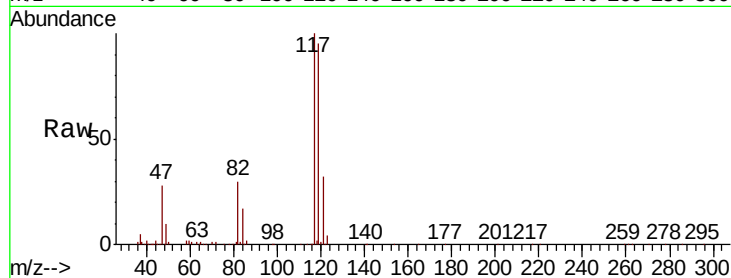
#35
Carbon Tetrachloride
Concen: 1.09 ppbv
RT: 7.18 min Scan# 1896
Delta R.T. -0.00 min
Lab File: VL032433.D
Acq: 31 Aug 2018 1:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
117	100	283756		
119	94.6	76.6	115.0	
121	31.5	24.6	36.8	

Manual Integrations
APPROVED

apatel
9/4/2018 8:25:28 AM

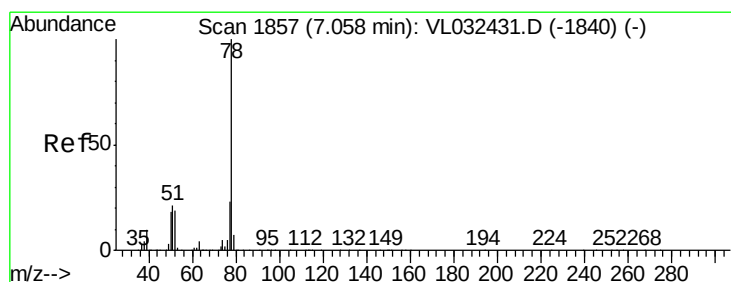
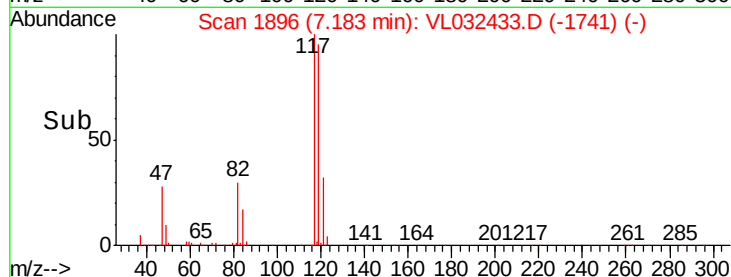
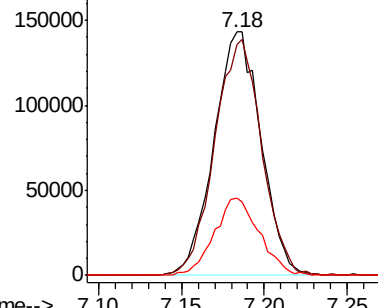


Abundance

Ion 117.00 (116.70 to 117.70): V

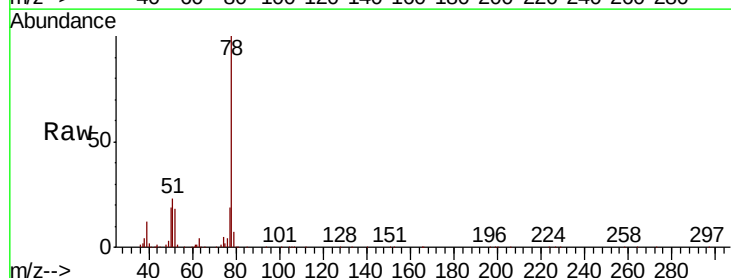
Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36
Benzene
Concen: 1.07 ppbv
RT: 7.05 min Scan# 1856
Delta R.T. -0.00 min
Lab File: VL032433.D
Acq: 31 Aug 2018 1:49

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	369721		
77	19.2	18.4	27.6	
50	18.8	14.4	21.6	

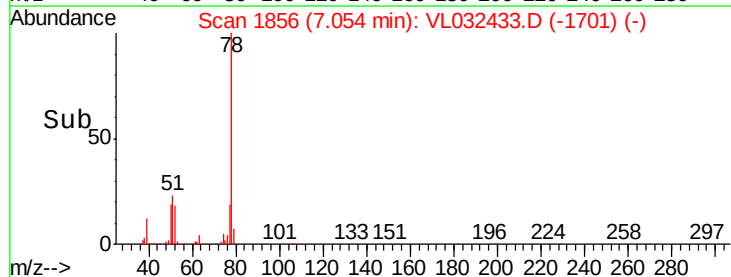
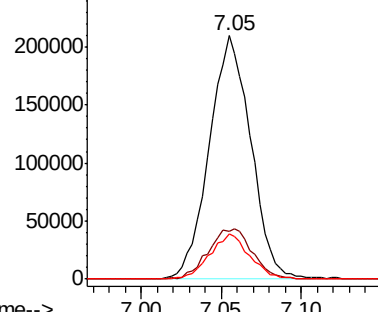


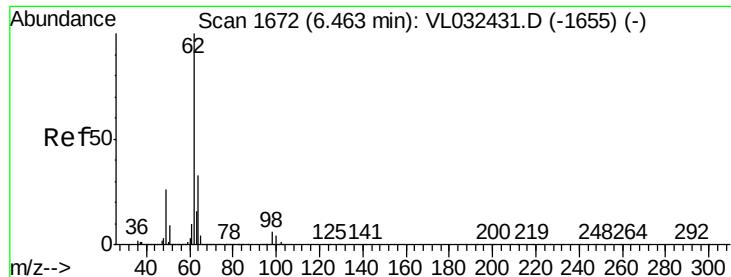
Abundance

Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





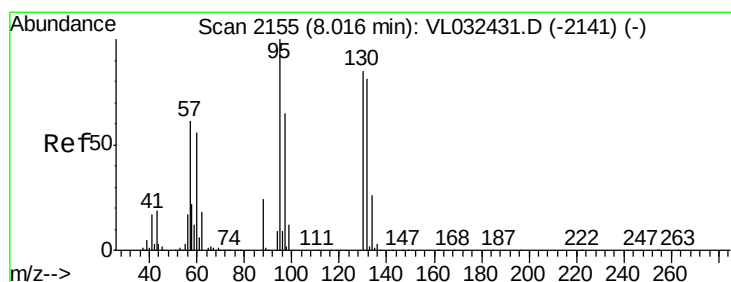
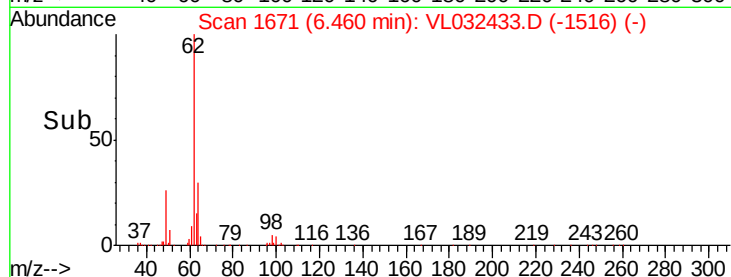
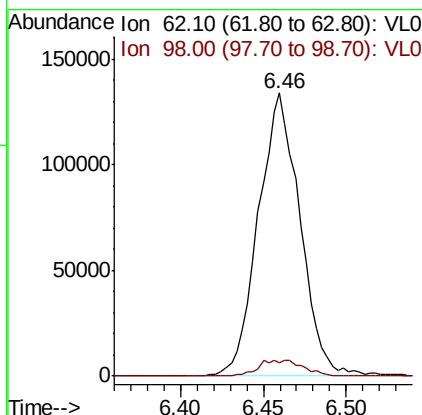
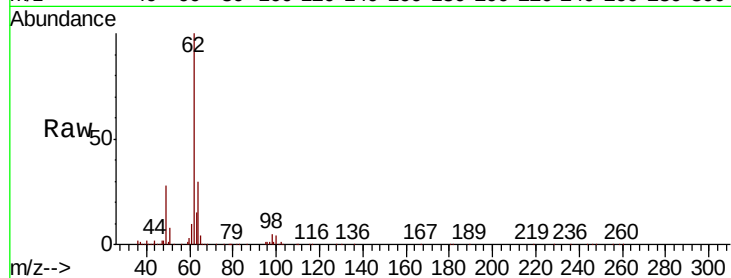
#37
 1,2-Dichloroethane
 Concen: 1.08 ppbv
 RT: 6.46 min Scan# 1671
 Delta R.T. -0.00 min
 Lab File: VL032433.D
 Acq: 31 Aug 2018 1:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
62	100	231771		
98	6.4	5.0	7.6	

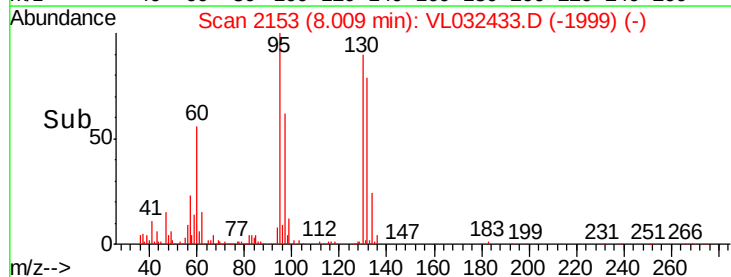
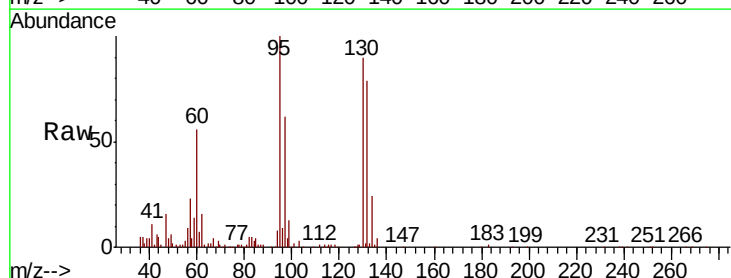
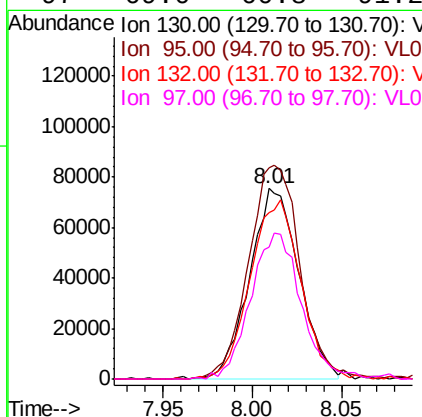
Manual Integrations
 APPROVED

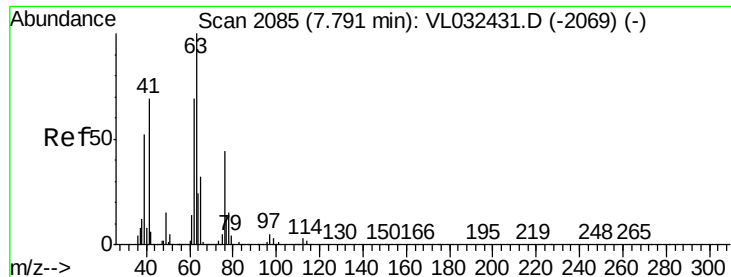
apatel
 9/4/2018 8:25:28 AM



#38
 Trichloroethene
 Concen: 1.26 ppbv
 RT: 8.01 min Scan# 2153
 Delta R.T. -0.01 min
 Lab File: VL032433.D
 Acq: 31 Aug 2018 1:49

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	145807		
95	110.7	94.2	141.4	
132	87.2	76.2	114.4	
97	69.0	60.8	91.2	





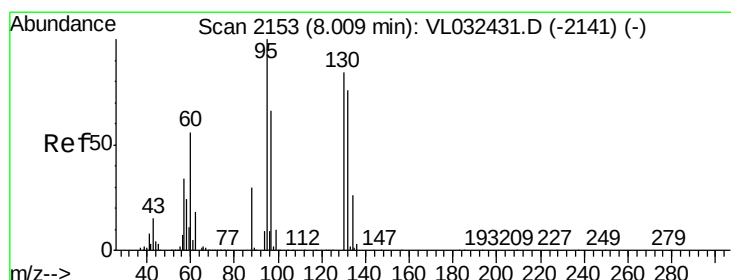
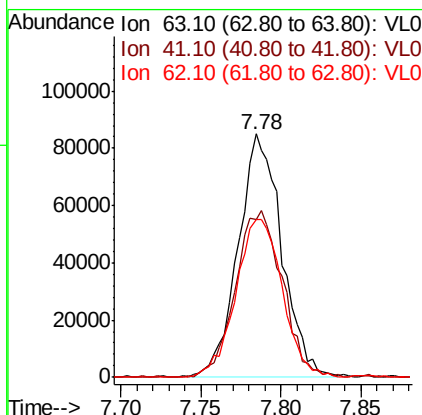
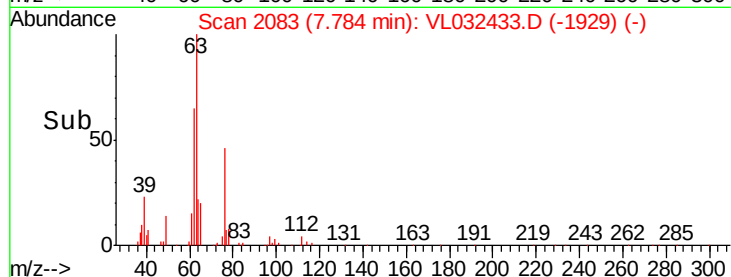
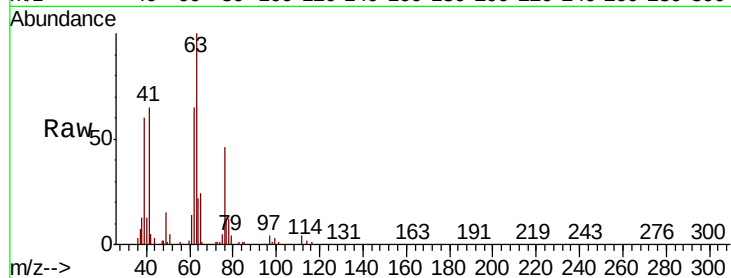
#39
 1,2-Dichloropropane
 Concen: 1.07 ppbv
 RT: 7.78 min Scan# 2083
 Delta R.T. -0.01 min
 Lab File: VL032433.D
 Acq: 31 Aug 2018 1:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
63	100	156142		
41	64.2		55.4	83.0
62	64.8		55.4	83.0

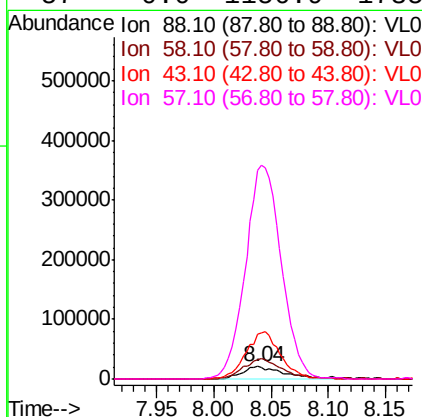
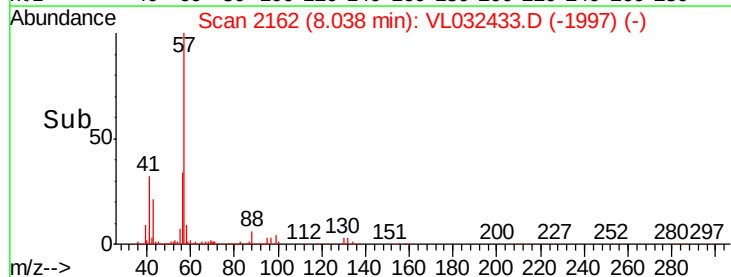
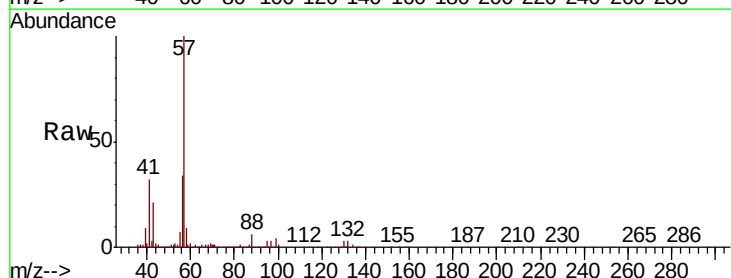
Manual Integrations
 APPROVED

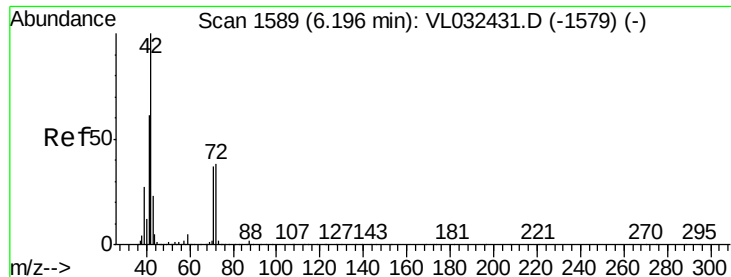
apatel
 9/4/2018 8:25:28 AM



#40
 1,4-Dioxane
 Concen: 1.26 ppbv m
 RT: 8.04 min Scan# 2162
 Delta R.T. 0.03 min
 Lab File: VL032433.D
 Acq: 31 Aug 2018 1:49

Tgt Ion	Ratio	Resp	Lower	Upper
88	100	54620		
58	0.0		119.7	179.5#
43	0.0		253.0	379.4#
57	0.0		1156.9	1735.3#





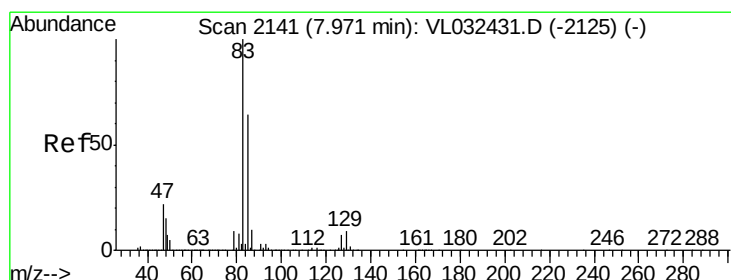
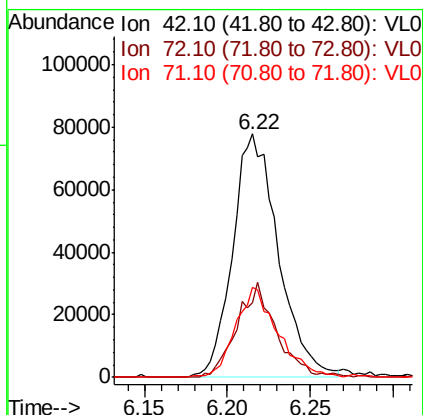
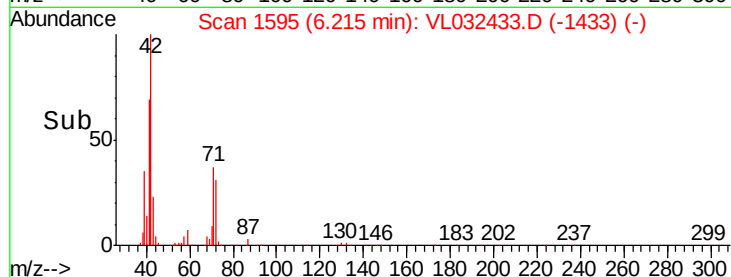
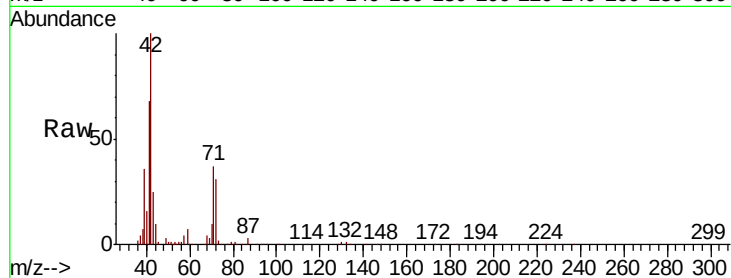
#41
Tetrahydrofuran
Concen: 1.05 ppbv
RT: 6.22 min Scan# 1595
Delta R.T. 0.02 min
Lab File: VL032433.D
Acq: 31 Aug 2018 1:49

Instrument :
MSVOA_L
ClientSampleID :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
42	100		
72	34.0	29.5	44.3
71	34.6	28.3	42.5

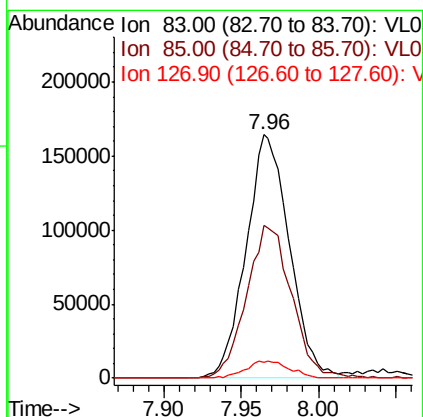
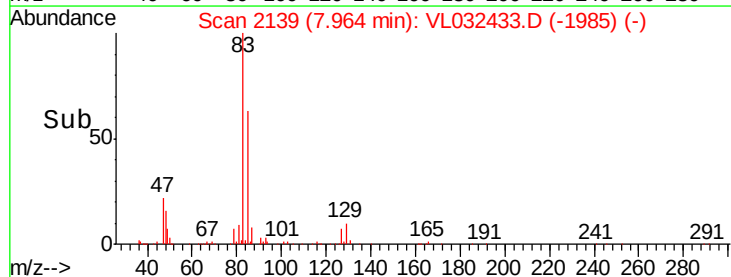
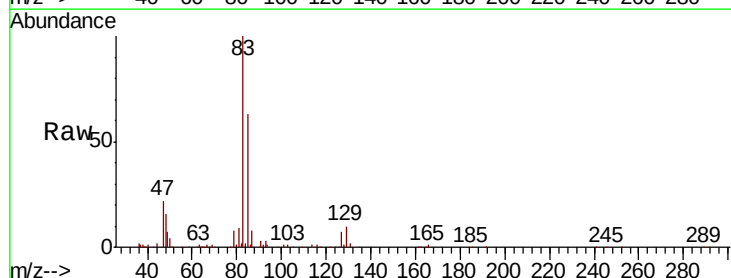
Manual Integrations
APPROVED

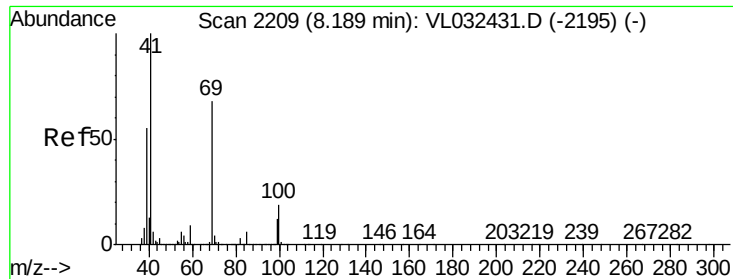
apatel
9/4/2018 8:25:28 AM



#42
Bromodichloromethane
Concen: 1.09 ppbv
RT: 7.96 min Scan# 2139
Delta R.T. -0.01 min
Lab File: VL032433.D
Acq: 31 Aug 2018 1:49

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.6	51.1	76.7
127	6.7	5.8	8.8





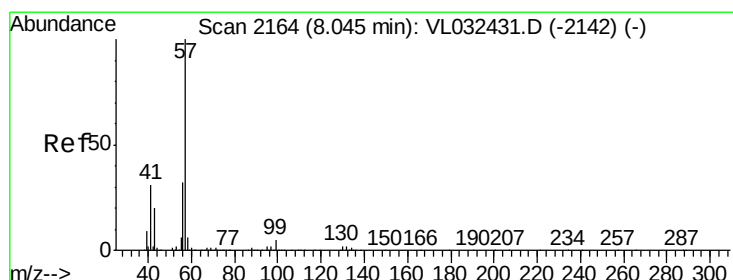
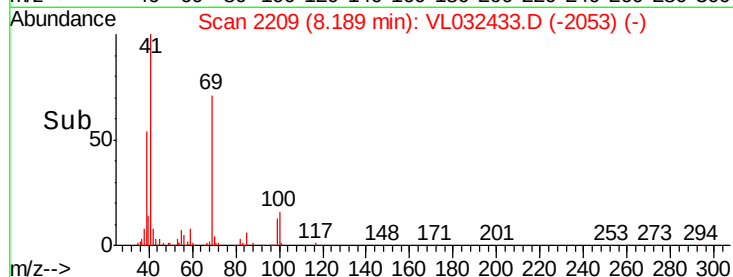
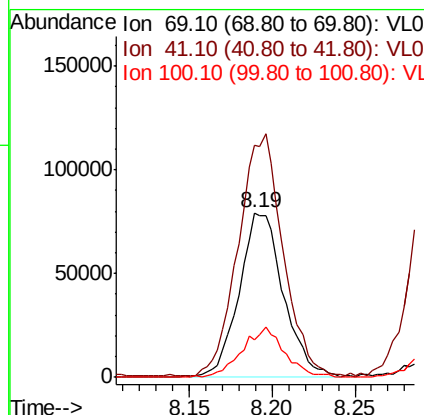
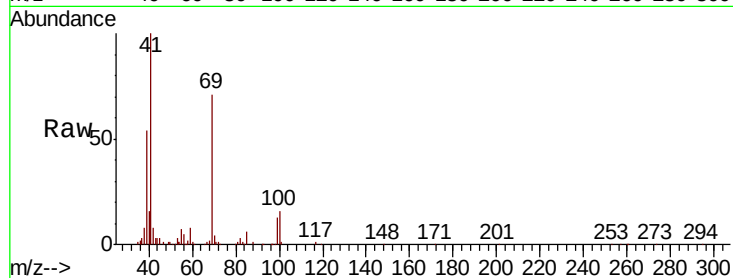
#43
Methyl Methacrylate
Concen: 1.02 ppbv
RT: 8.19 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VL032433.D
Acq: 31 Aug 2018 1:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	150.8	117.2	175.8	
100	29.2	23.4	35.2	

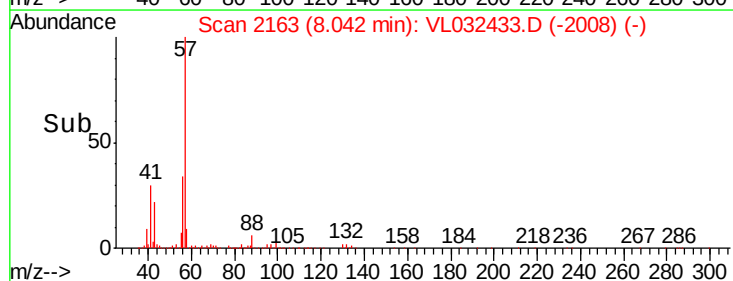
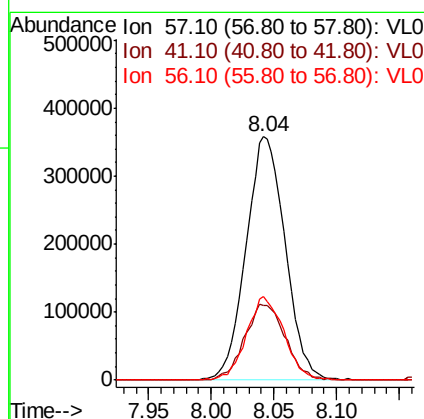
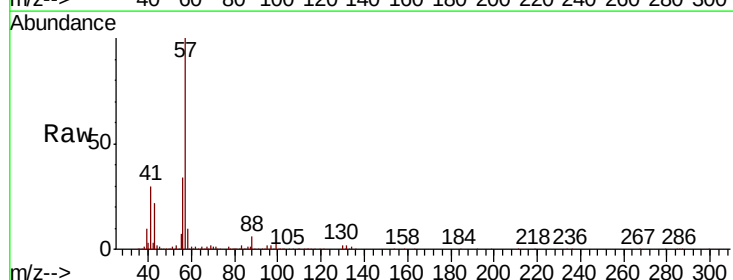
Manual Integrations
APPROVED

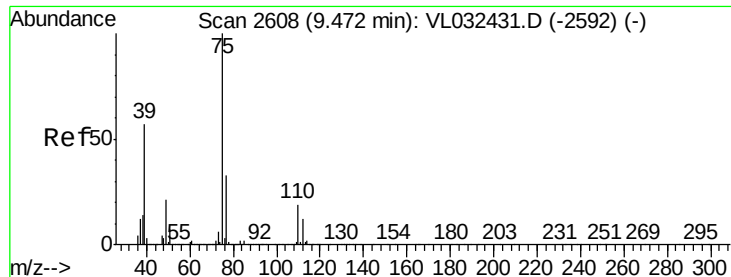
apatel
9/4/2018 8:25:28 AM



#44
2,2,4-Trimethylpentane
Concen: 1.20 ppbv
RT: 8.04 min Scan# 2163
Delta R.T. -0.00 min
Lab File: VL032433.D
Acq: 31 Aug 2018 1:49

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	32.8	24.3	36.5	
56	33.0	25.7	38.5	





#45

t-1,3-Dichloropropene

Concen: 0.81 ppbv m

RT: 9.47 min Scan# 2606

Delta R.T. -0.01 min

Lab File: VL032433.D

Acq: 31 Aug 2018 1:49

Tot Ion: 75 Resp: 137503

Ion Ratio Lower Upper

75 100

77 32.7 26.2 39.2

Instrument :

MSVOA_L

ClientSampleId :

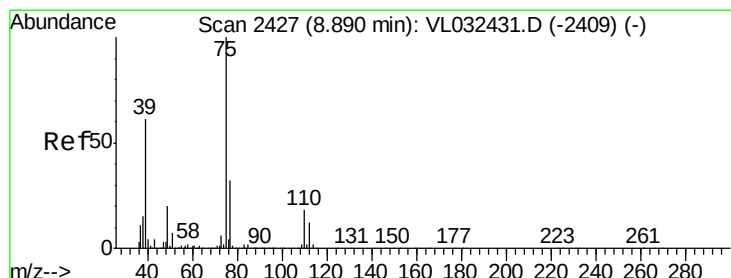
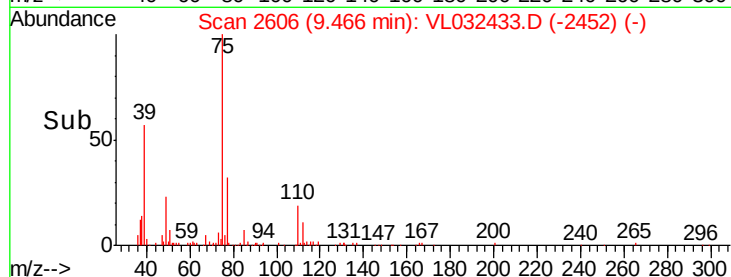
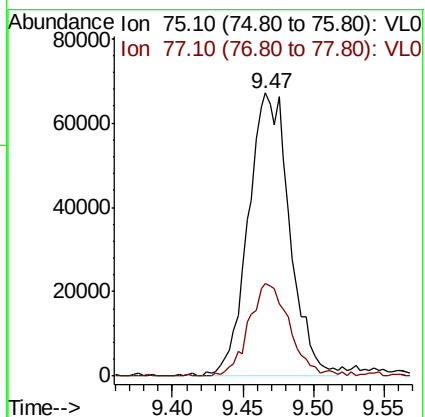
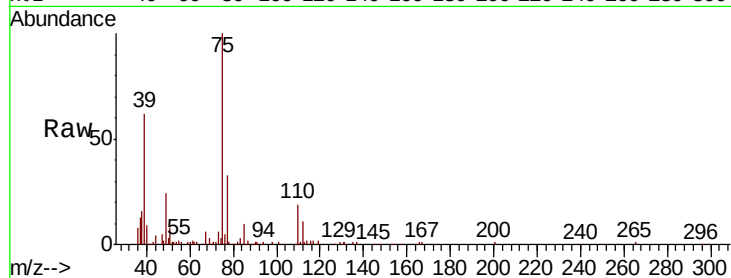
VSTDIC001

Manual Integrations

APPROVED

apatel

9/4/2018 8:25:28 AM



#46

cis-1,3-Dichloropropene

Concen: 0.92 ppbv

RT: 8.89 min Scan# 2427

Delta R.T. 0.00 min

Lab File: VL032433.D

Acq: 31 Aug 2018 1:49

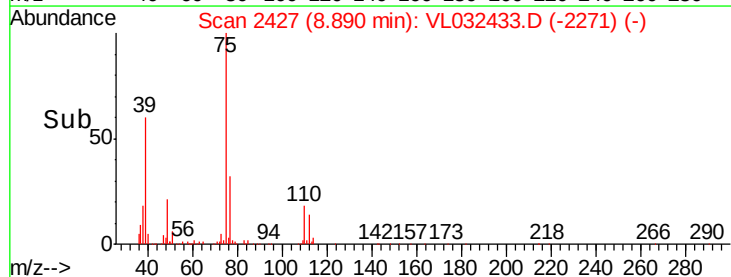
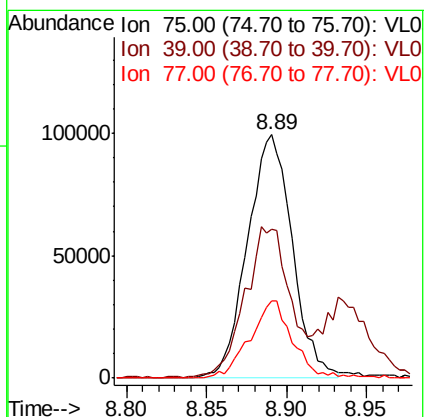
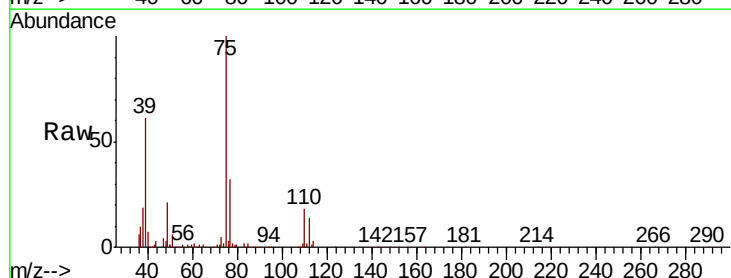
Tgt Ion: 75 Resp: 191549

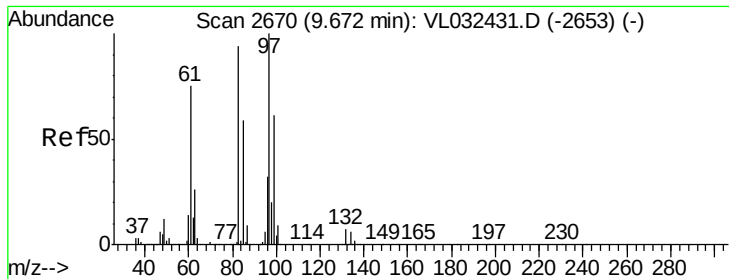
Ion Ratio Lower Upper

75 100

39 60.4 48.9 73.3

77 31.7 25.4 38.0





#47

1,1,2-Trichloroethane

Concen: 1.15 ppbv m

RT: 9.66 min Scan# 2667

Delta R.T. -0.01 min

Lab File: VL032433.D

Acq: 31 Aug 2018 1:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 97 Resp: 178752

Ion Ratio Lower Upper

97 100

83 85.4 75.0 112.4

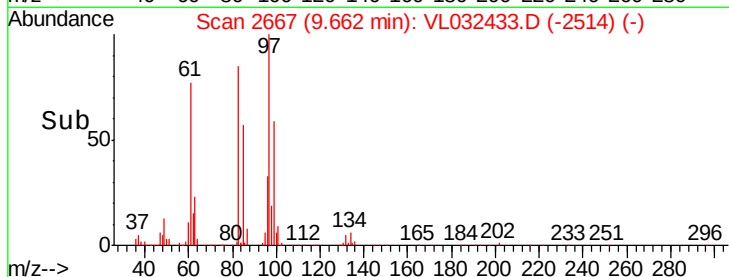
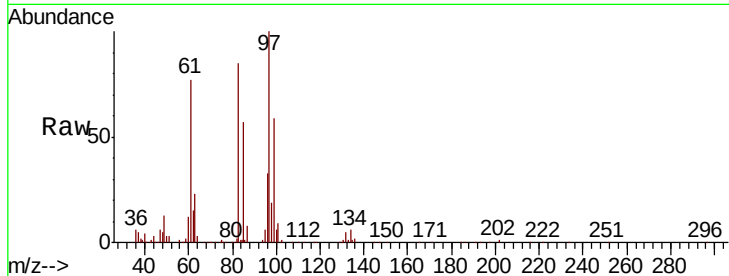
85 56.9 47.5 71.3

99 59.1 49.0 73.6

Manual Integrations
APPROVED

apatel

9/4/2018 8:25:28 AM

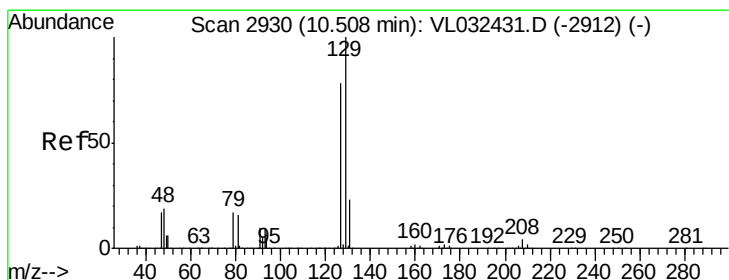
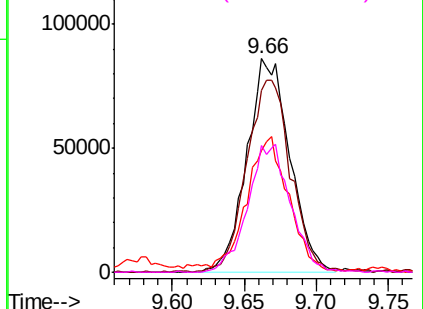


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 1.06 ppbv

RT: 10.50 min Scan# 2929

Delta R.T. -0.00 min

Lab File: VL032433.D

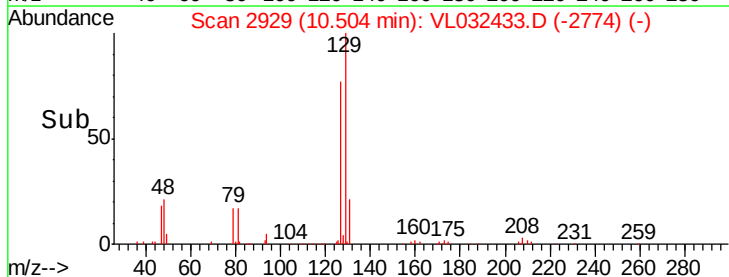
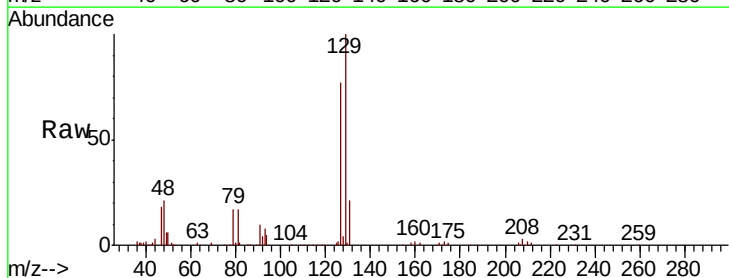
Acq: 31 Aug 2018 1:49

Tgt Ion: 129 Resp: 232312

Ion Ratio Lower Upper

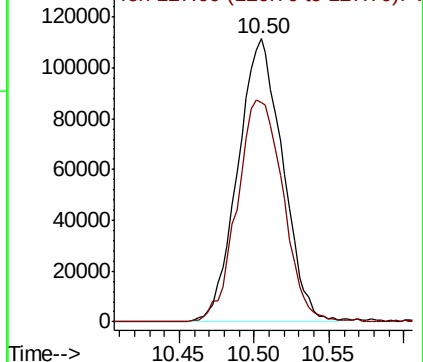
129 100

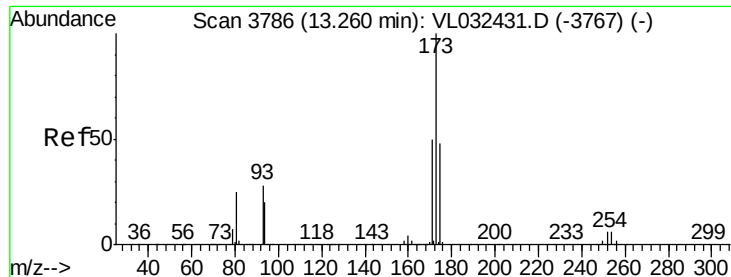
127 81.0 39.5 118.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 1.04 ppbv

RT: 13.25 min Scan# 3783

Delta R.T. -0.01 min

Lab File: VL032433.D

Acq: 31 Aug 2018 1:49

Instrument :

MSVOA_L

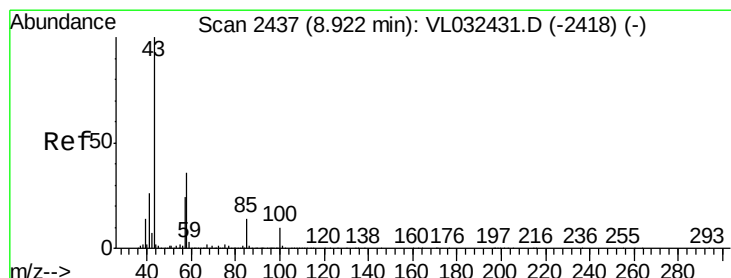
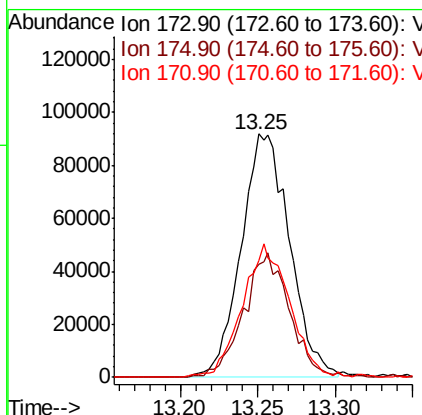
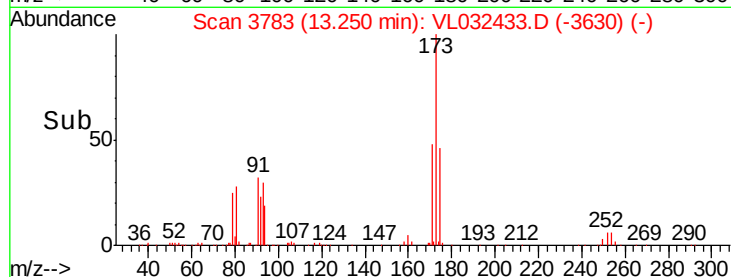
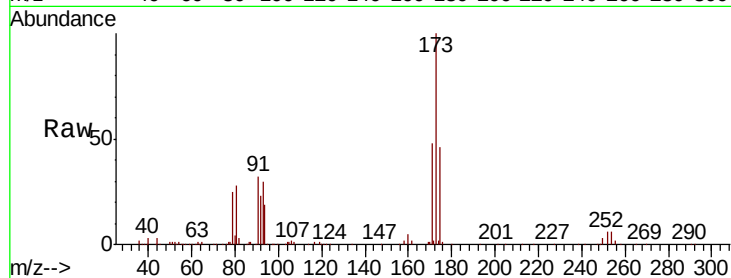
ClientSampleId :

VSTDIC001

Tot Ion:	173	Resp:	200073
Ion Ratio	Lower	Upper	
173	100		
175	48.4	38.9	58.3
171	54.0	41.6	62.4

Manual Integrations
APPROVED

apatel
9/4/2018 8:25:28 AM



#50

4-Methyl-2-Pentanone

Concen: 1.03 ppbv

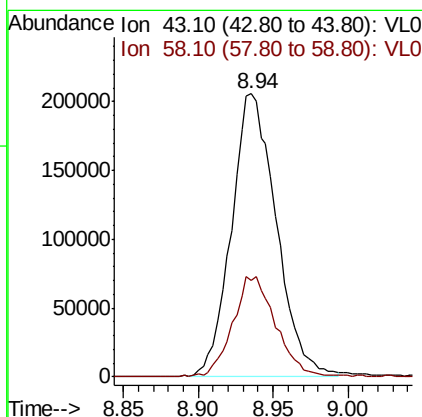
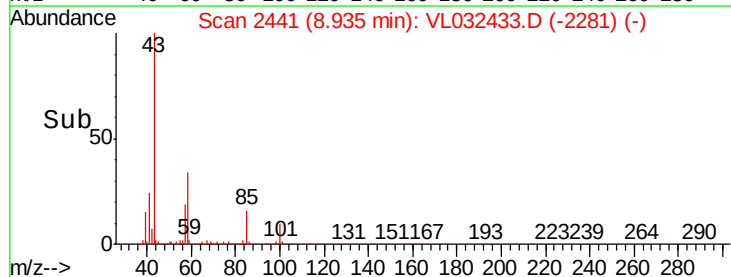
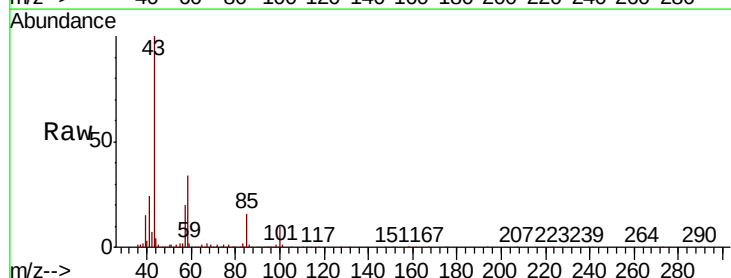
RT: 8.94 min Scan# 2441

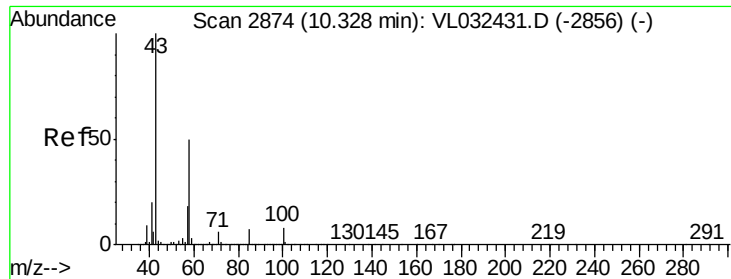
Delta R.T. 0.01 min

Lab File: VL032433.D

Acq: 31 Aug 2018 1:49

Tgt Ion:	43	Resp:	425786
Ion Ratio	Lower	Upper	
43	100		
58	34.6	28.9	43.3





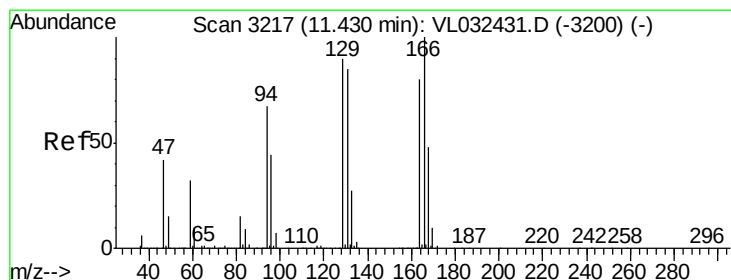
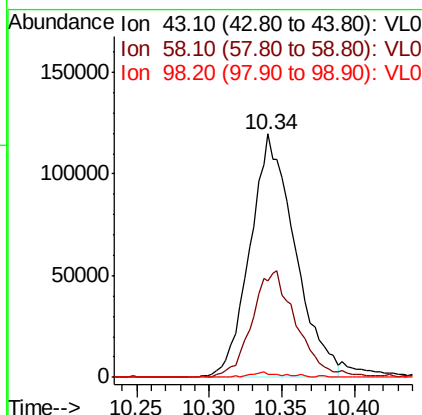
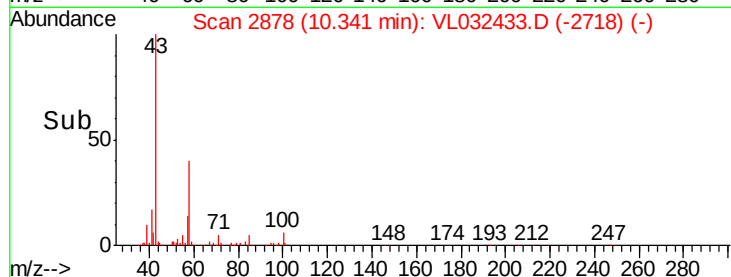
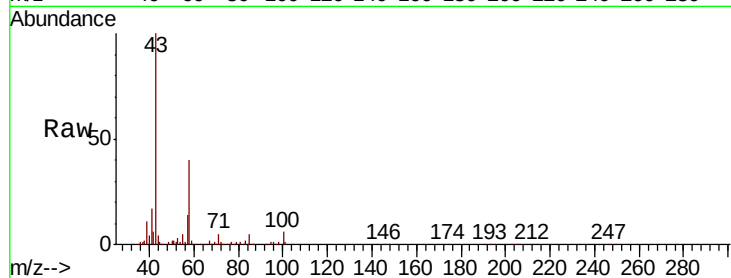
#51
 2-Hexanone
 Concen: 0.94 ppbv
 RT: 10.34 min Scan# 2878
 Delta R.T. 0.01 min
 Lab File: VL032433.D
 Acq: 31 Aug 2018 1:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
43	100		
58	43.9	39.2	58.8
98	1.9	0.4	0.6

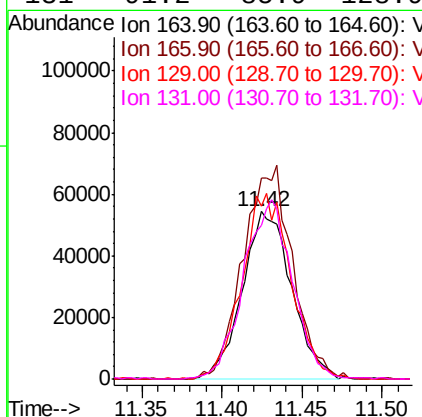
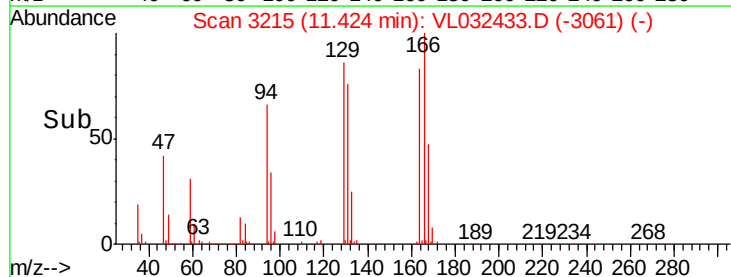
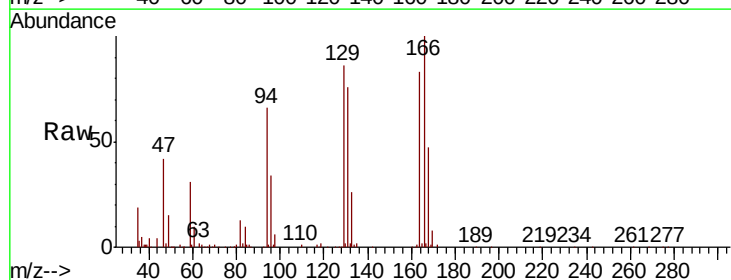
Manual Integrations
 APPROVED

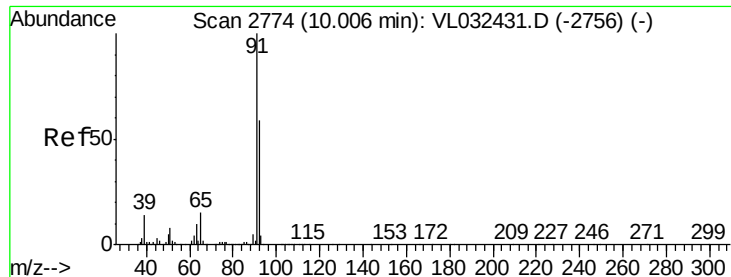
apatel
 9/4/2018 8:25:28 AM



#52
 Tetrachloroethene
 Concen: 1.15 ppbv
 RT: 11.42 min Scan# 3215
 Delta R.T. -0.01 min
 Lab File: VL032433.D
 Acq: 31 Aug 2018 1:49

Tgt Ion	Ratio	Lower	Upper
164	100		
166	119.8	100.6	150.8
129	103.3	89.9	134.9
131	91.2	85.9	128.9





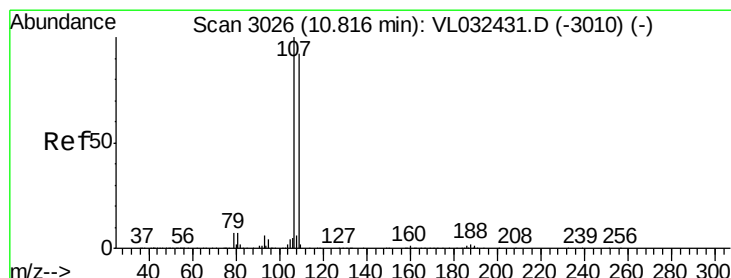
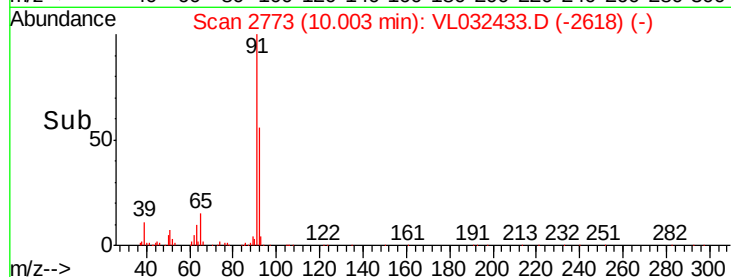
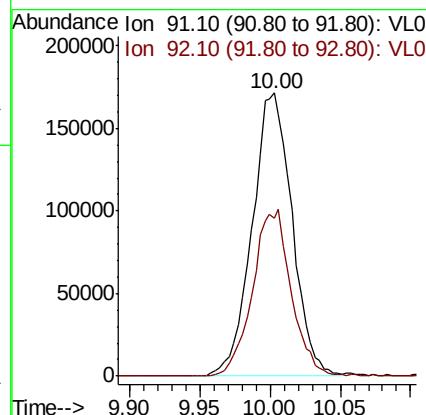
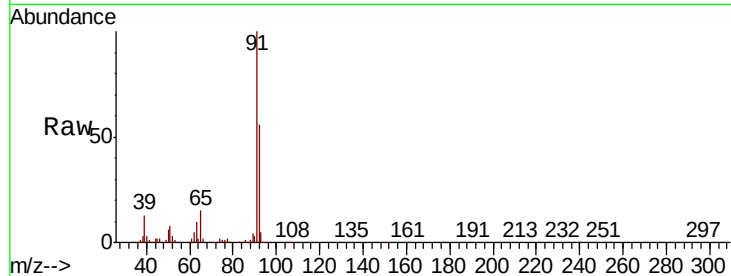
#53
Toluene
Concen: 0.93 ppbv
RT: 10.00 min Scan# 2773
Delta R.T. -0.00 min
Lab File: VL032433.D
Acq: 31 Aug 2018 1:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
91	100		
92	57.1	48.1	72.1

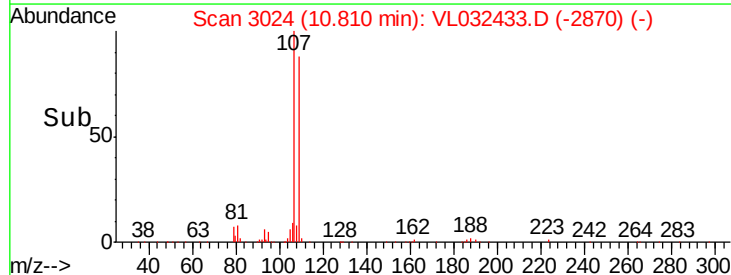
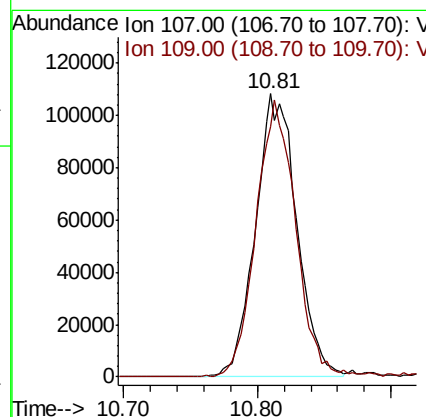
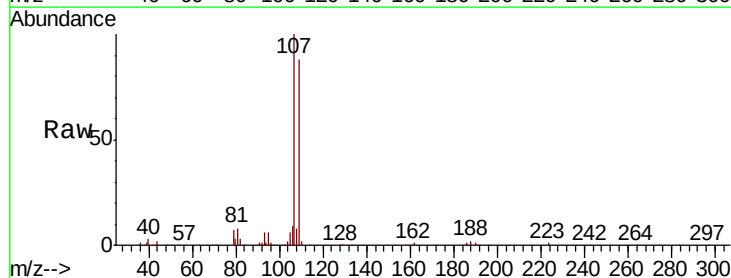
Manual Integrations
APPROVED

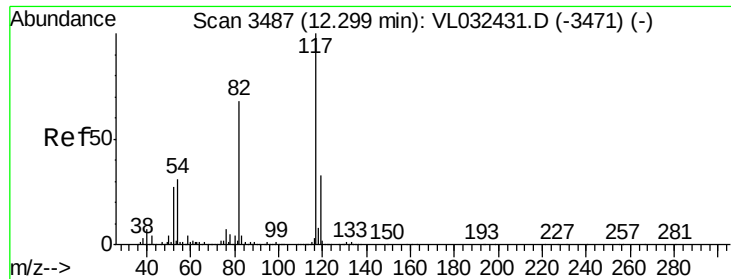
apatel
9/4/2018 8:25:28 AM



#54
1,2-Dibromoethane
Concen: 1.03 ppbv m
RT: 10.81 min Scan# 3024
Delta R.T. -0.01 min
Lab File: VL032433.D
Acq: 31 Aug 2018 1:49

Tgt Ion	Ratio	Lower	Upper
107	100		
109	88.3	73.9	110.9





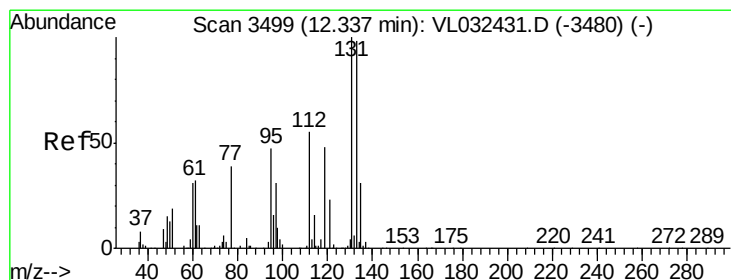
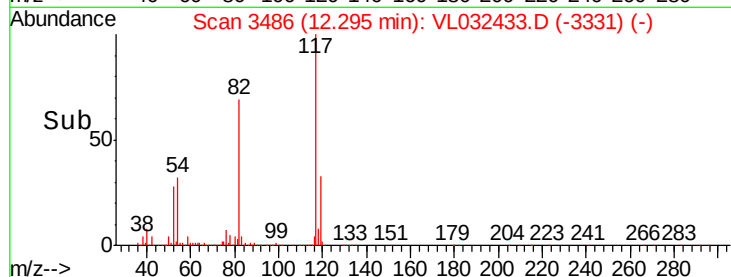
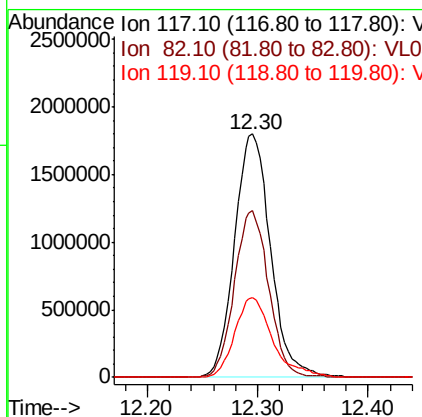
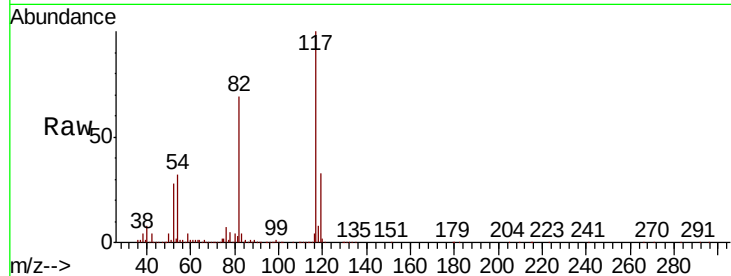
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.30 min Scan# 3486
Delta R.T. -0.00 min
Lab File: VL032433.D
Acq: 31 Aug 2018 1:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
117	100		
82	65.3	51.5	77.3
119	34.5	44.6	66.8#

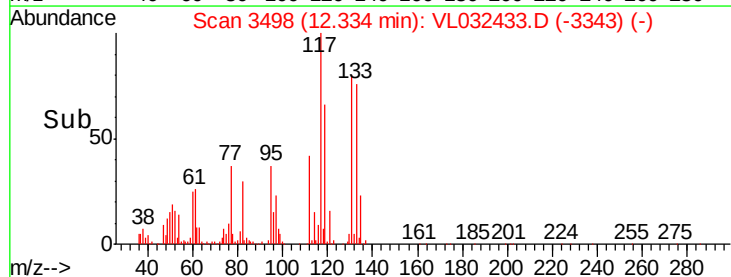
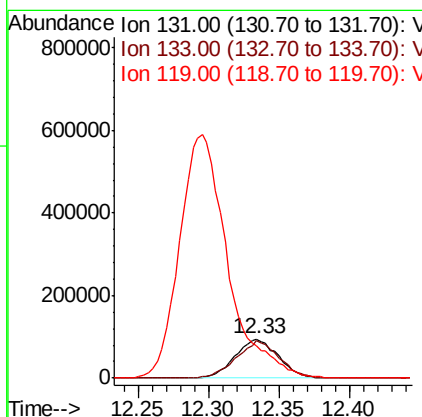
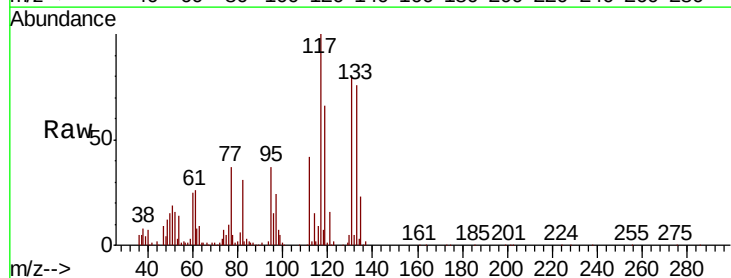
Manual Integrations
APPROVED

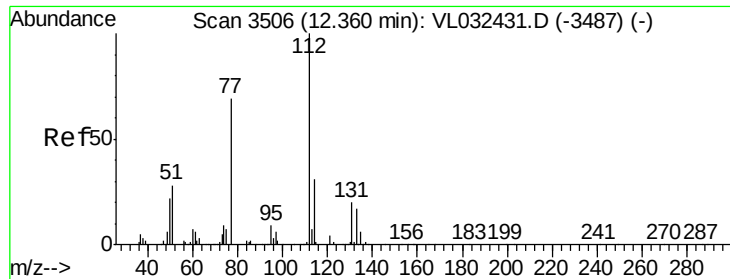
apatel
9/4/2018 8:25:28 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 1.16 ppbv
RT: 12.33 min Scan# 3498
Delta R.T. -0.00 min
Lab File: VL032433.D
Acq: 31 Aug 2018 1:49

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.3	77.0	115.4
119	690.9	48.9	73.3#





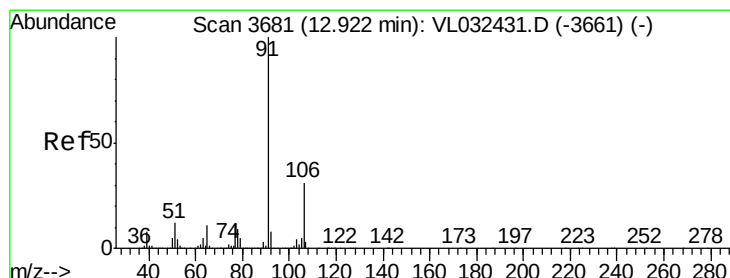
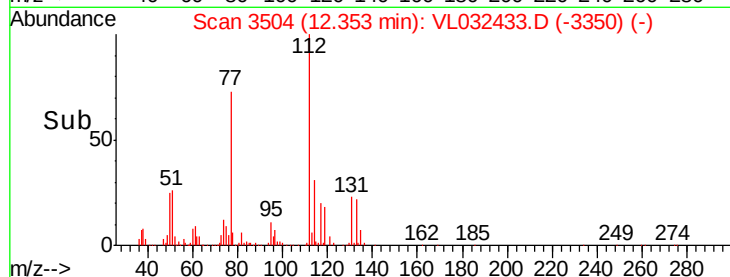
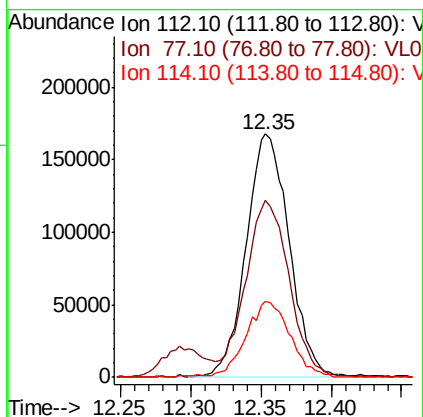
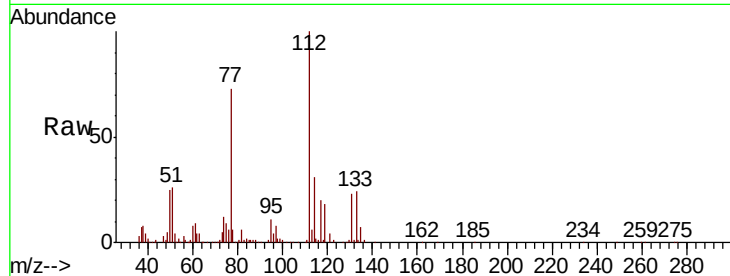
#57
Chlorobenzene
Concen: 1.15 ppbv
RT: 12.35 min Scan# 3504
Delta R.T. -0.01 min
Lab File: VL032433.D
Acq: 31 Aug 2018 1:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
112	100		
77	71.8	56.1	84.1
114	30.6	27.8	34.0

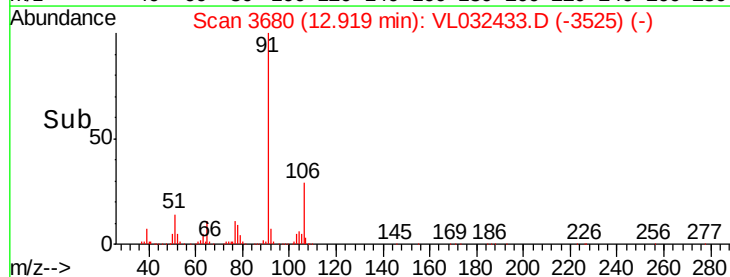
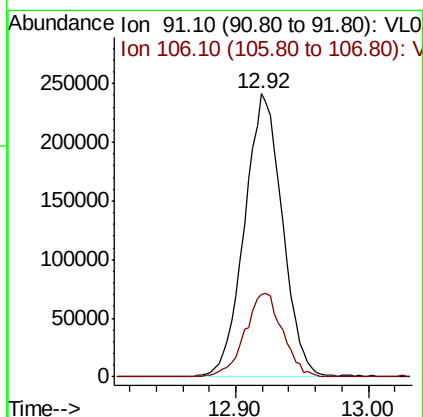
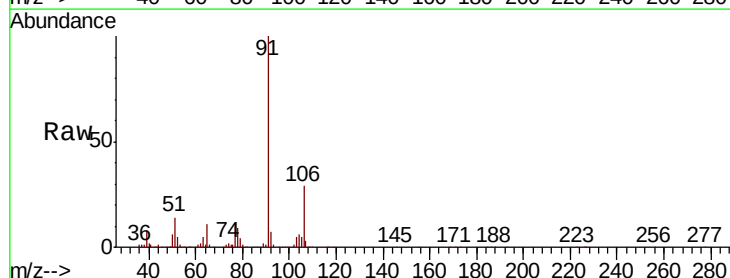
Manual Integrations
APPROVED

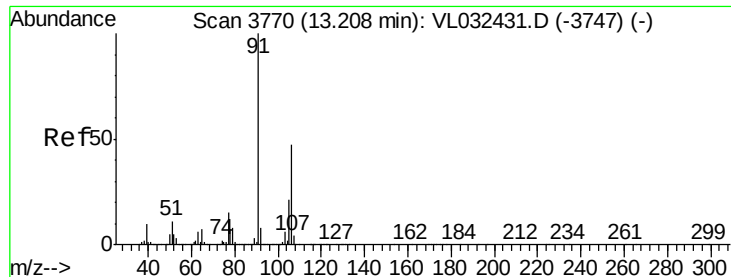
apatel
9/4/2018 8:25:28 AM



#58
Ethyl Benzene
Concen: 1.03 ppbv
RT: 12.92 min Scan# 3680
Delta R.T. -0.00 min
Lab File: VL032433.D
Acq: 31 Aug 2018 1:49

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.3	24.8	37.2





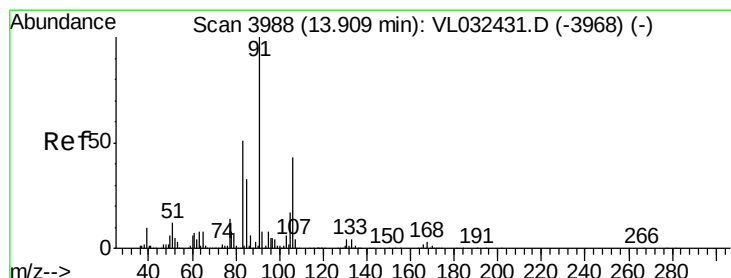
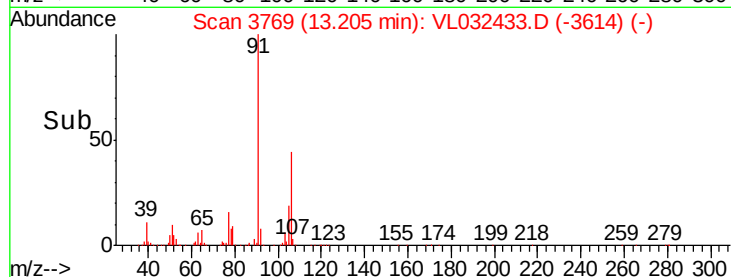
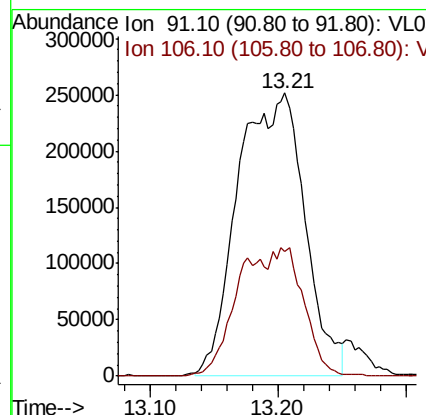
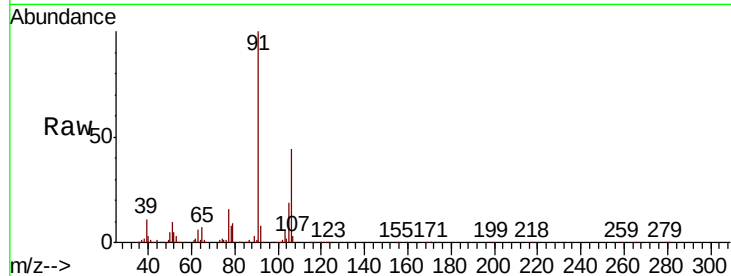
#59
m/p-Xylene
Concen: 2.21 ppbv m
RT: 13.21 min Scan# 3769
Delta R.T. -0.00 min
Lab File: VL032433.D
Acq: 31 Aug 2018 1:49

Instrument :
MSVOA_L
ClientSampled :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
91	100		
106	44.3	35.0	52.6

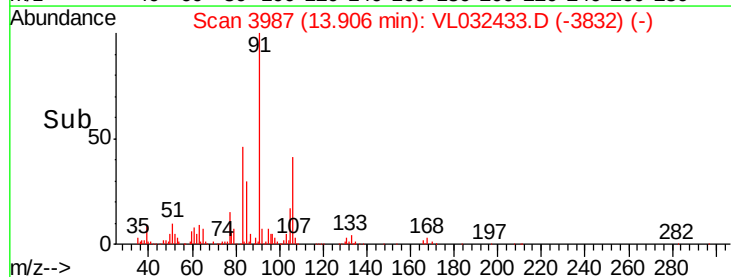
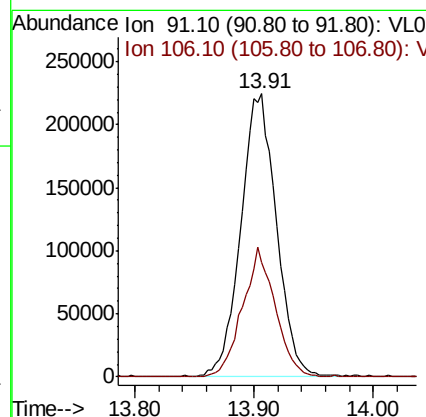
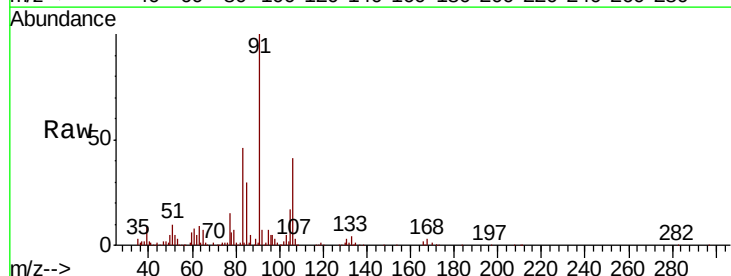
Manual Integrations
APPROVED

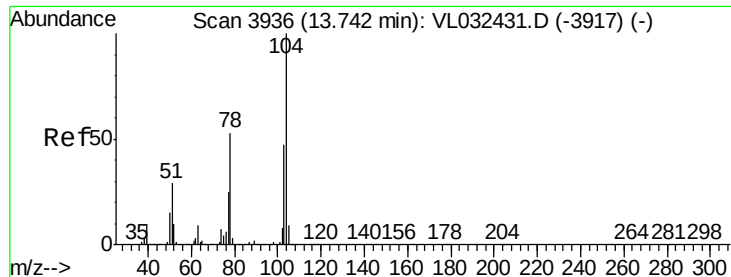
apatel
9/4/2018 8:25:28 AM



#60
o-Xylene
Concen: 1.16 ppbv
RT: 13.91 min Scan# 3987
Delta R.T. -0.00 min
Lab File: VL032433.D
Acq: 31 Aug 2018 1:49

Tgt Ion	Ratio	Lower	Upper
91	100		
106	42.2	21.9	65.7





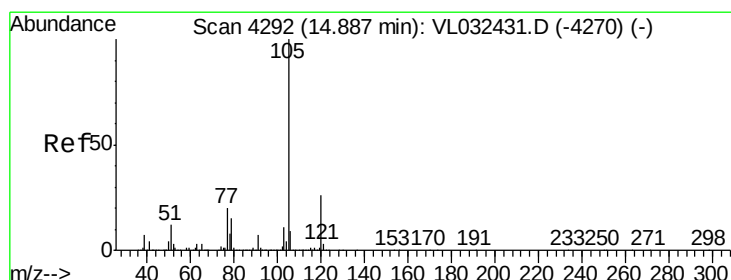
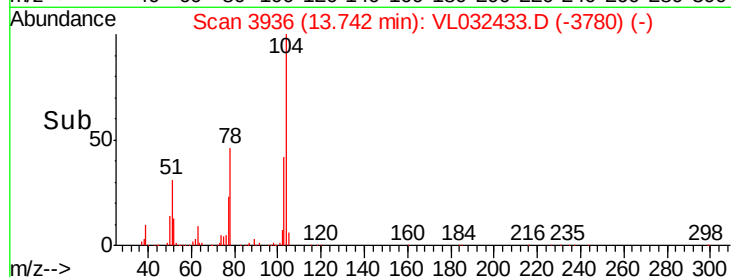
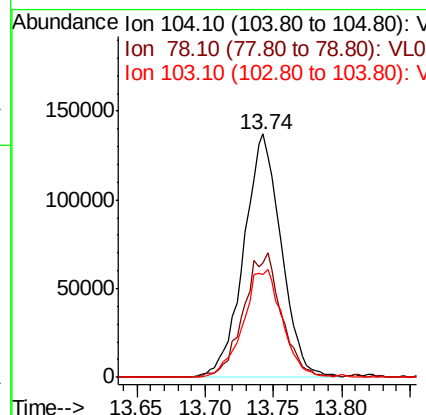
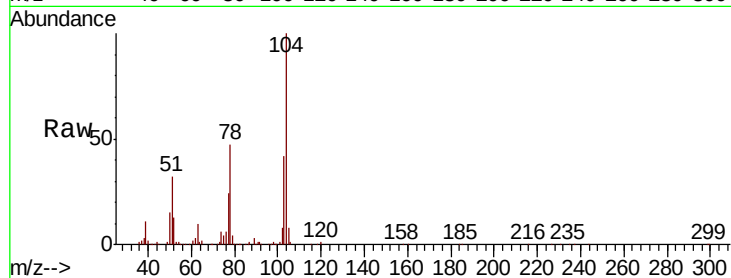
#61
Stvrene
Concen: 0.98 ppbv
RT: 13.74 min Scan# 3936
Delta R.T. 0.00 min
Lab File: VL032433.D
Acq: 31 Aug 2018 1:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
104	100		
78	52.5	41.8	62.8
103	46.7	38.0	57.0

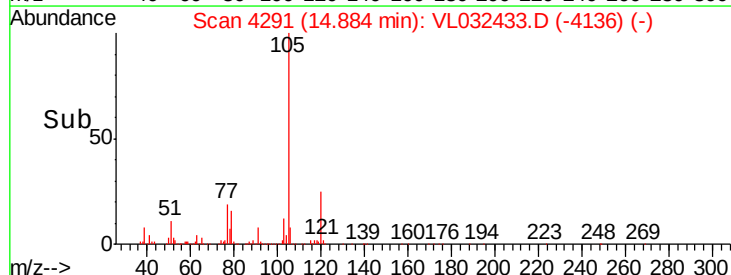
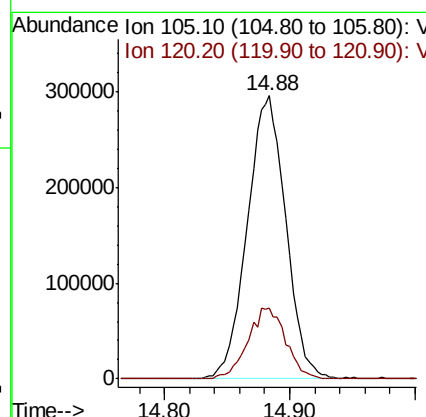
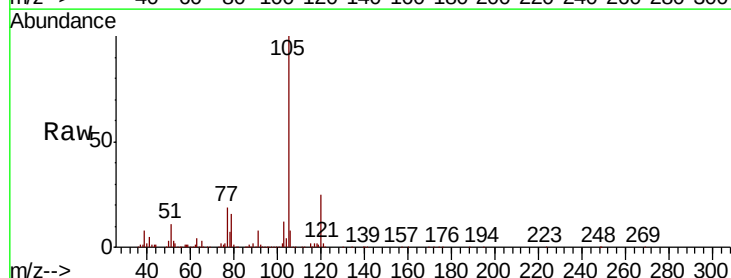
Manual Integrations
APPROVED

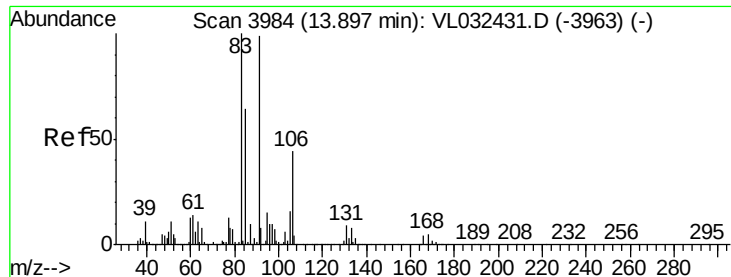
apatel
9/4/2018 8:25:28 AM



#62
Isopropylbenzene
Concen: 1.12 ppbv
RT: 14.88 min Scan# 4291
Delta R.T. -0.00 min
Lab File: VL032433.D
Acq: 31 Aug 2018 1:49

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.7	20.6	31.0





#63

1,1,2,2-Tetrachloroethane

Concen: 1.20 ppbv

RT: 13.89 min Scan# 3981

Delta R.T. -0.01 min

Lab File: VL032433.D

Acq: 31 Aug 2018 1:49

Instrument :

MSVOA_L

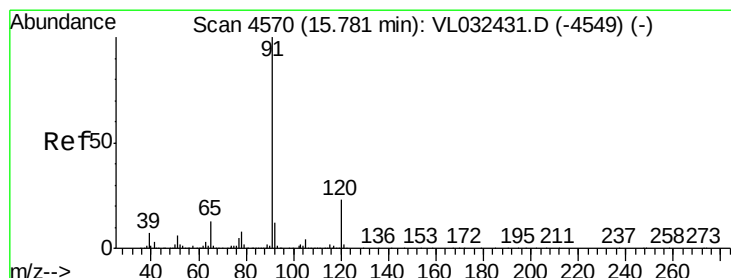
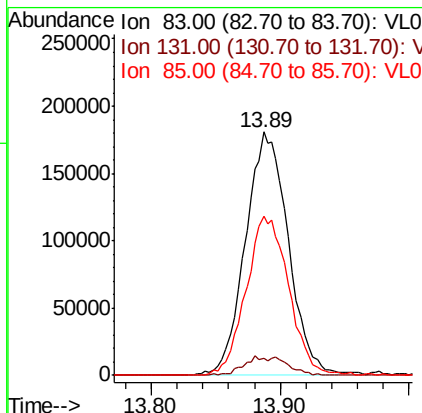
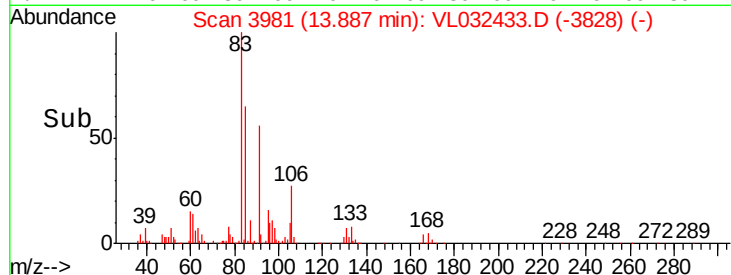
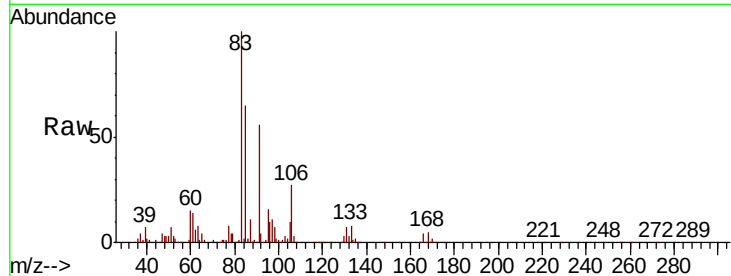
ClientSampleId :

VSTDIC001

Tot Ion:	83	Resp:	416369
Ion Ratio	Lower	Upper	
83	100		
131	7.8	4.3	12.8
85	65.3	32.3	96.8

Manual Integrations
APPROVED

apatel
9/4/2018 8:25:28 AM



#64

n-propylbenzene

Concen: 1.11 ppbv

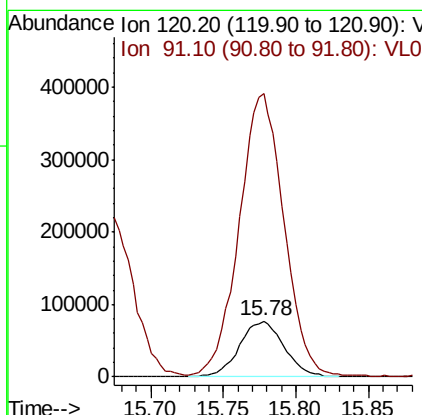
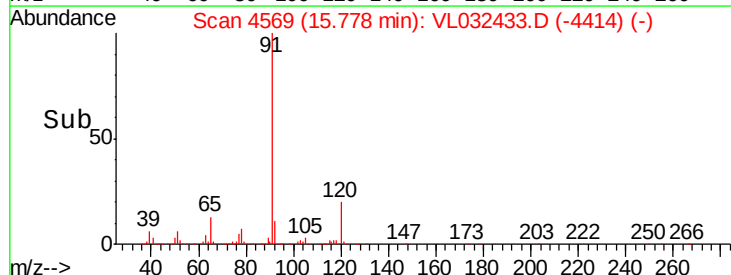
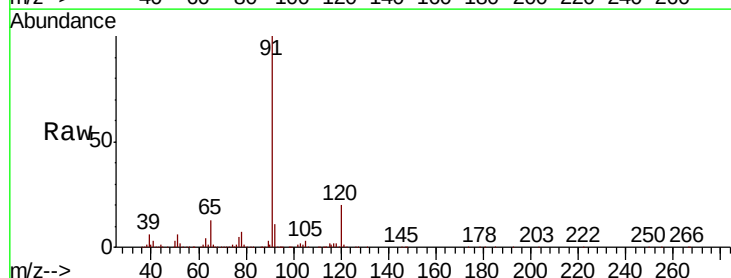
RT: 15.78 min Scan# 4569

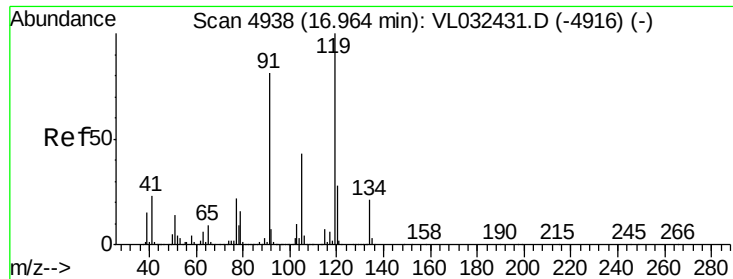
Delta R.T. -0.00 min

Lab File: VL032433.D

Acq: 31 Aug 2018 1:49

Tgt Ion:	120	Resp:	164073
Ion Ratio	Lower	Upper	
120	100		
91	513.2	381.8	572.6





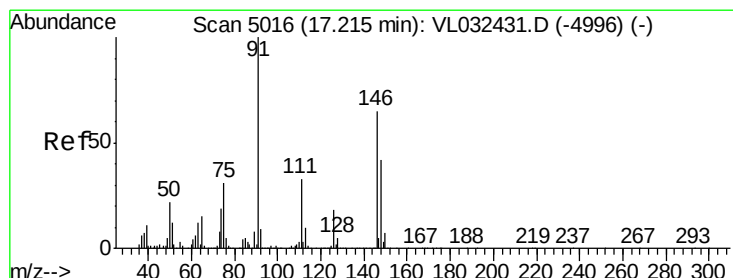
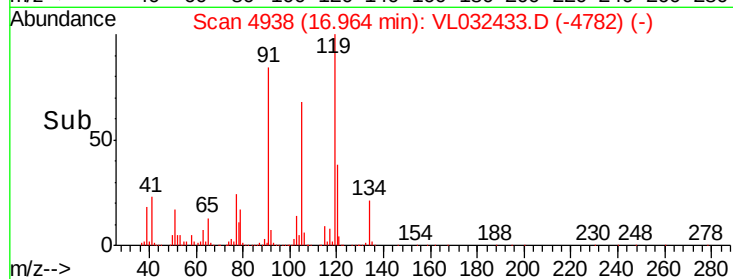
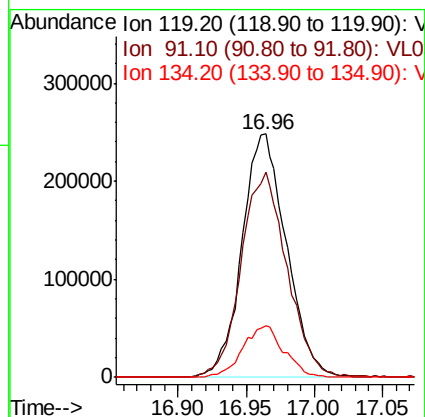
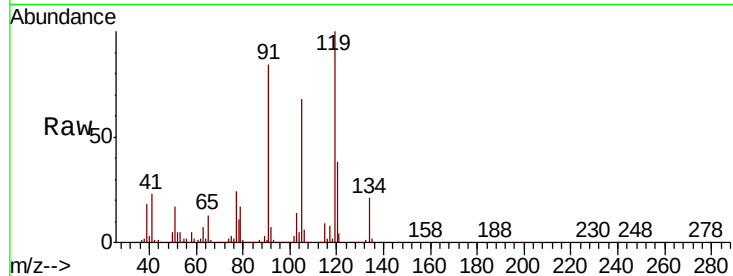
#65
 tert-Butylbenzene
 Concen: 1.16 ppbv
 RT: 16.96 min Scan# 4938
 Delta R.T. 0.00 min
 Lab File: VL032433.D
 Acq: 31 Aug 2018 1:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
119	100	560183		
91	87.5	66.5	99.7	
134	19.9	16.0	24.0	

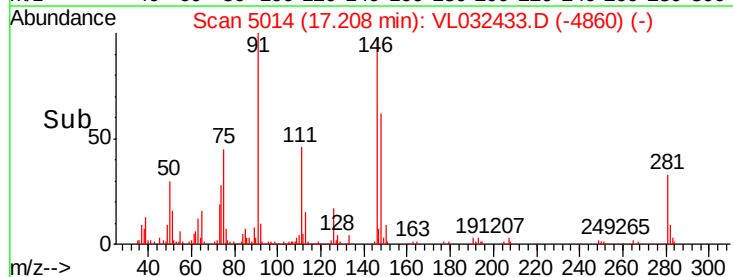
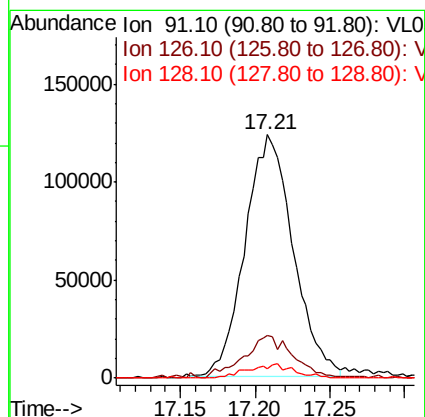
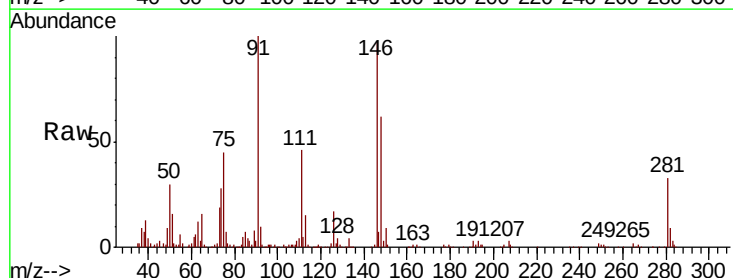
Manual Integrations
 APPROVED

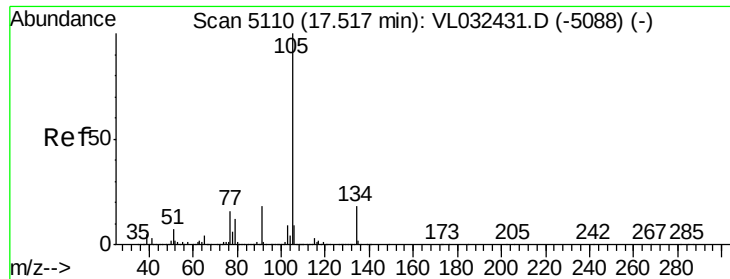
apatel
 9/4/2018 8:25:28 AM



#66
 Benzyl Chloride
 Concen: 0.92 ppbv
 RT: 17.21 min Scan# 5014
 Delta R.T. -0.01 min
 Lab File: VL032433.D
 Acq: 31 Aug 2018 1:49

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	276897		
126	18.7	13.8	20.8	
128	5.6	4.4	6.6	





#67

sec-Butylbenzene

Concen: 1.18 ppbv

RT: 17.51 min Scan# 5108

Delta R.T. -0.01 min

Lab File: VL032433.D

Acq: 31 Aug 2018 1:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 105 Resp: 846392

Ion Ratio Lower Upper

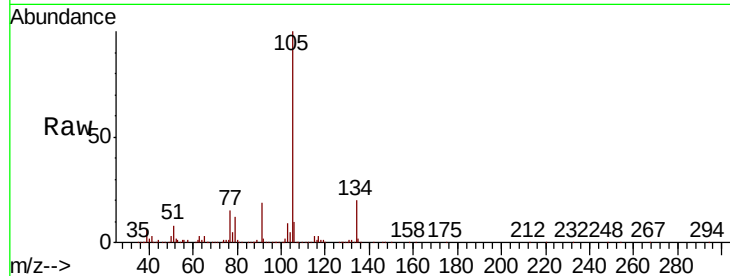
105 100

134 17.9 14.4 21.6

Manual Integrations
APPROVED

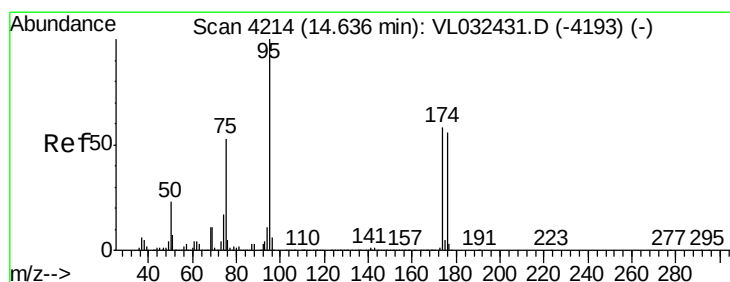
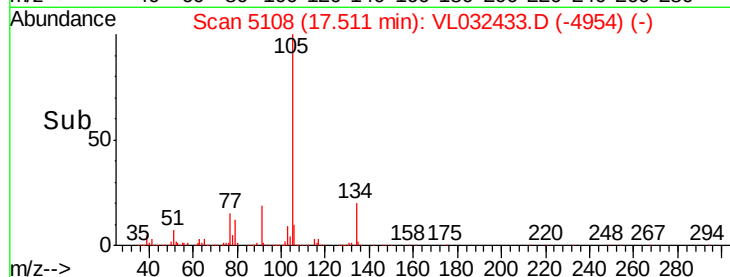
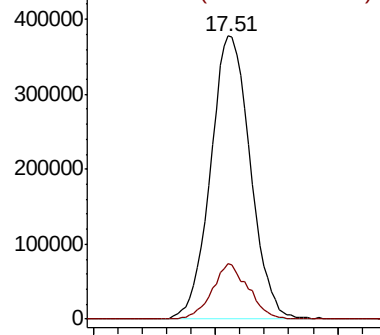
apatel

9/4/2018 8:25:28 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.96 ppbv

RT: 14.63 min Scan# 4212

Delta R.T. -0.01 min

Lab File: VL032433.D

Acq: 31 Aug 2018 1:49

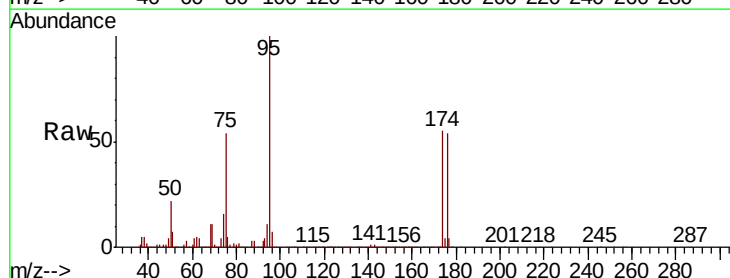
Tgt Ion: 95 Resp: 3025609

Ion Ratio Lower Upper

95 100

174 57.9 46.3 69.5

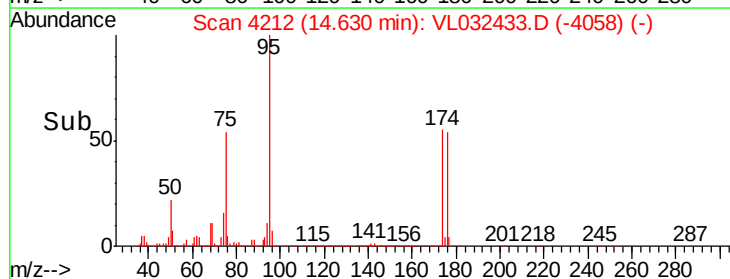
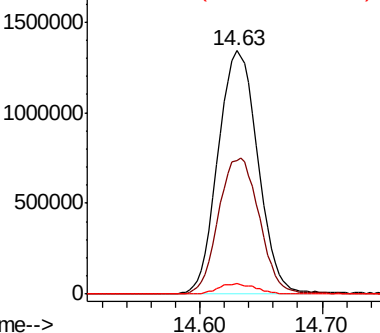
175 4.2 3.4 5.0

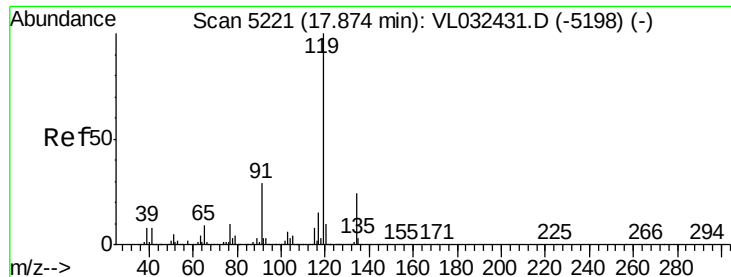


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





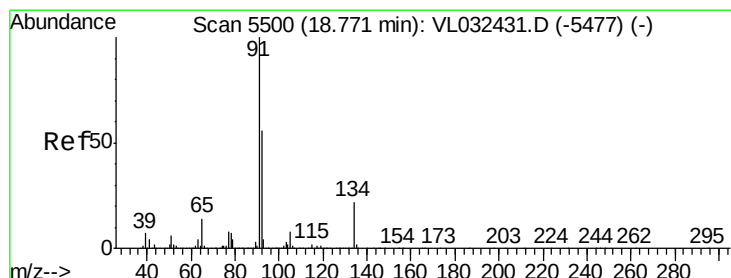
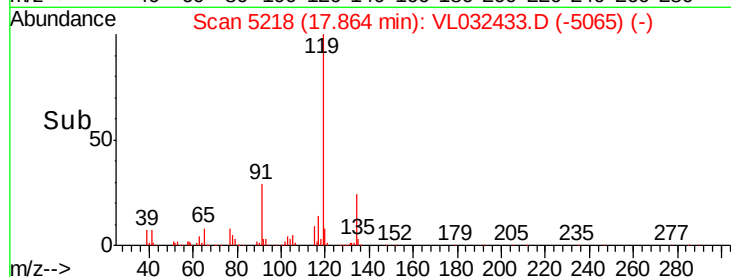
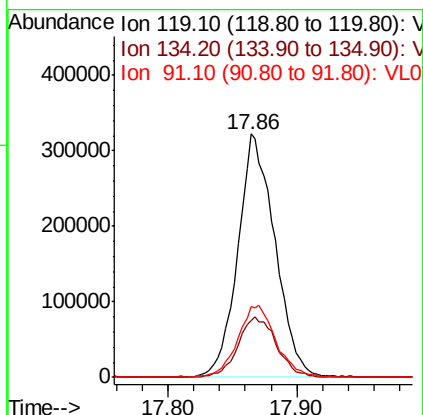
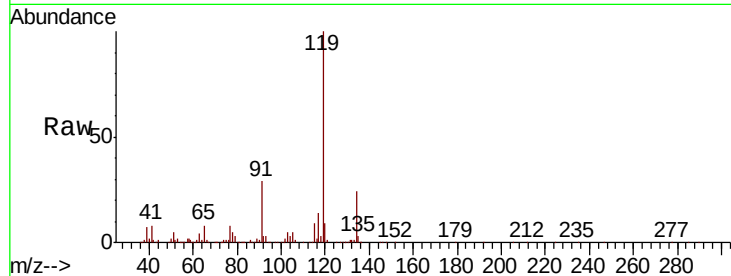
#69
 p-Isopropyltoluene
 Concen: 1.16 ppbv
 RT: 17.86 min Scan# 5218
 Delta R.T. -0.01 min
 Lab File: VL032433.D
 Acq: 31 Aug 2018 1:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion:	119	Resp:	640270
Ion Ratio	Lower	Upper	
119	100		
134	26.1	20.4	30.6
91	30.7	23.4	35.0

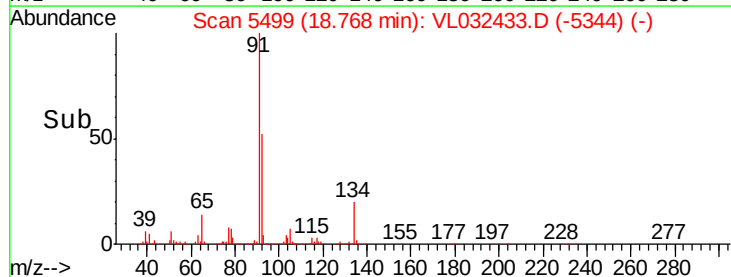
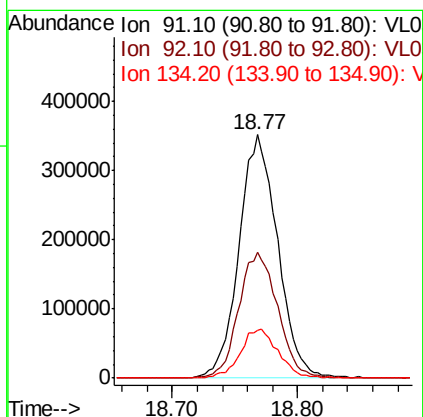
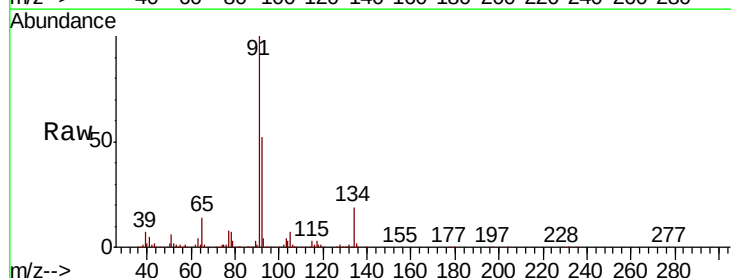
Manual Integrations
 APPROVED

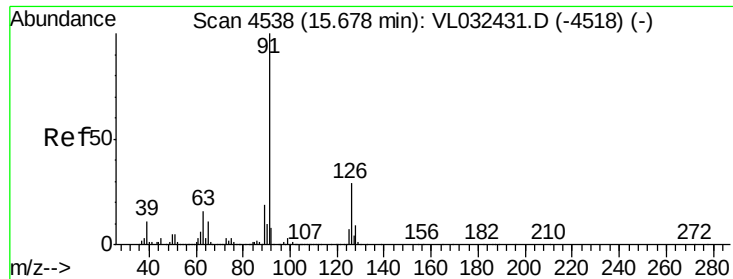
apatel
 9/4/2018 8:25:28 AM



#70
 n-Butylbenzene
 Concen: 1.22 ppbv
 RT: 18.77 min Scan# 5499
 Delta R.T. -0.00 min
 Lab File: VL032433.D
 Acq: 31 Aug 2018 1:49

Tgt Ion:	91	Resp:	746794
Ion Ratio	Lower	Upper	
91	100		
92	52.5	43.8	65.8
134	19.8	17.4	26.0





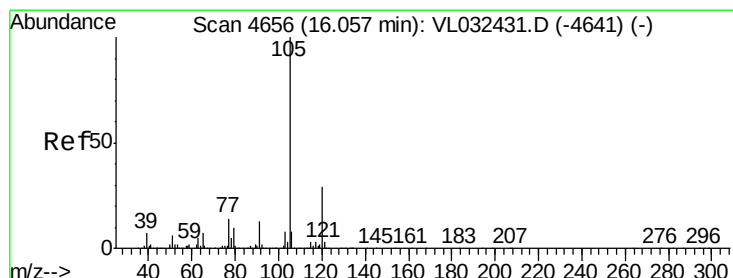
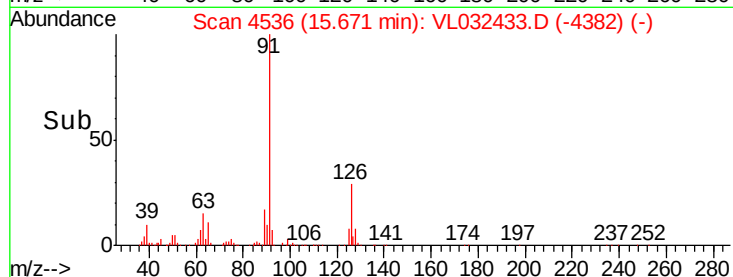
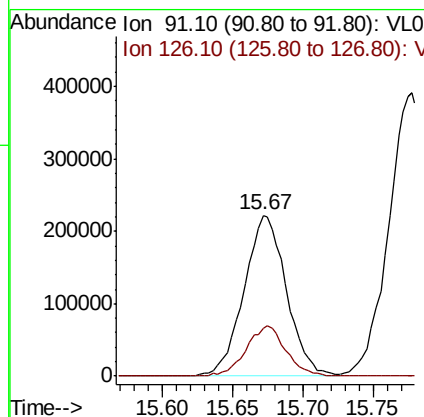
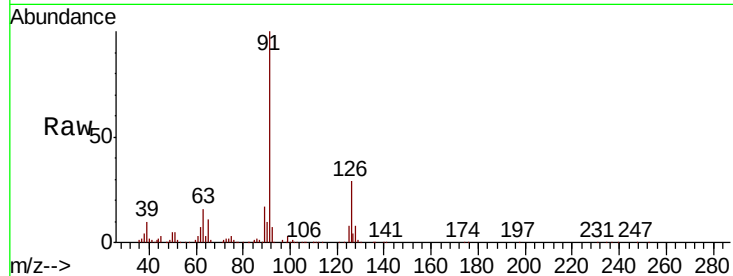
#71
 2-Chlorotoluene
 Concen: 1.09 ppbv
 RT: 15.67 min Scan# 4536
 Delta R.T. -0.01 min
 Lab File: VL032433.D
 Acq: 31 Aug 2018 1:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
91	100		
126	29.5	11.9	47.7

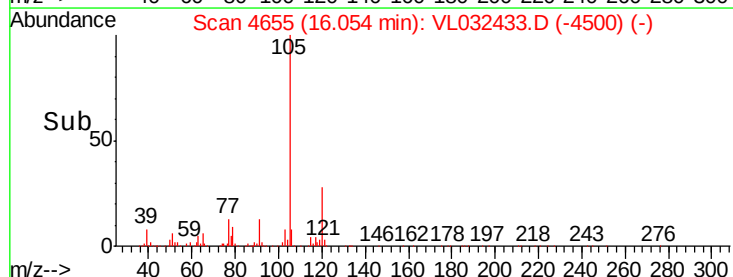
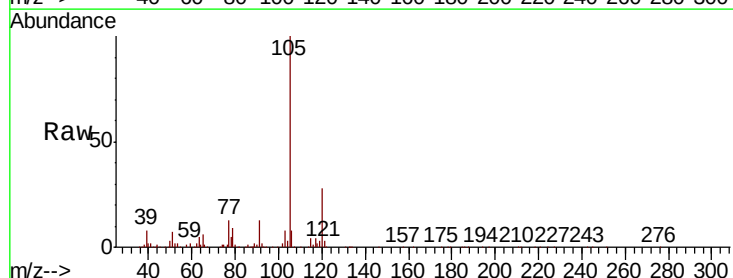
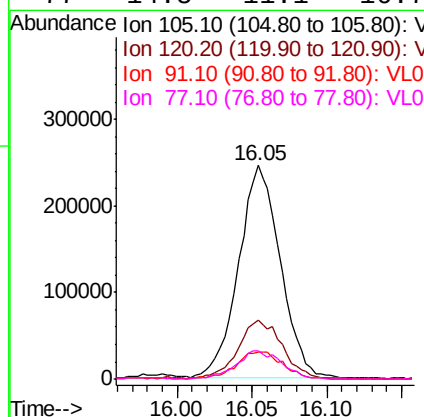
Manual Integrations
 APPROVED

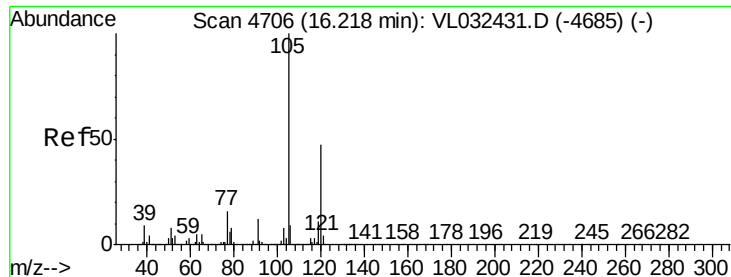
apatel
 9/4/2018 8:25:28 AM



#72
 4-Ethyltoluene
 Concen: 1.11 ppbv
 RT: 16.05 min Scan# 4655
 Delta R.T. -0.00 min
 Lab File: VL032433.D
 Acq: 31 Aug 2018 1:49

Tgt Ion	Ratio	Lower	Upper
105	100		
120	29.7	23.5	35.3
91	15.1	10.2	15.2
77	14.5	11.1	16.7





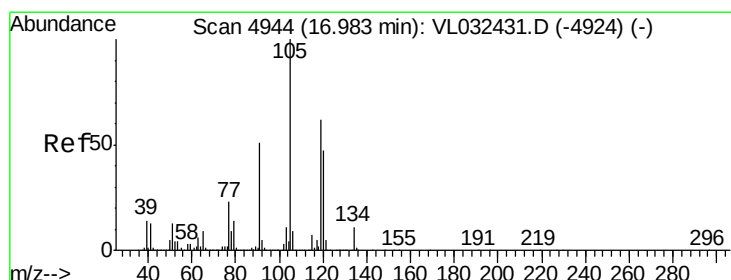
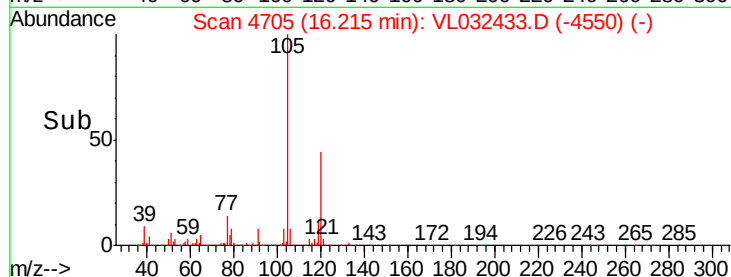
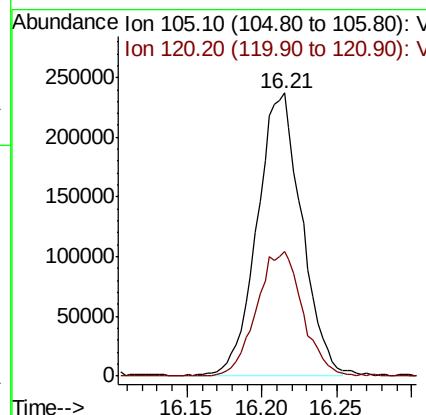
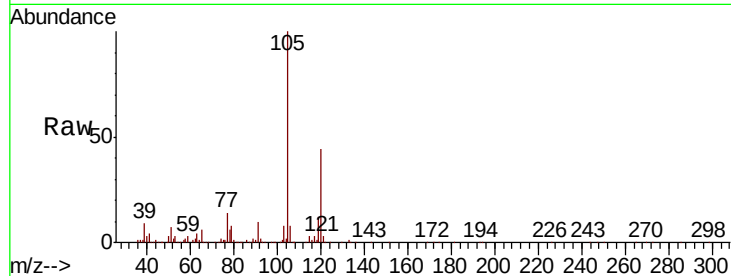
#73
 1,3,5-Trimethylbenzene
 Concen: 1.18 ppbv
 RT: 16.21 min Scan# 4705
 Delta R.T. -0.00 min
 Lab File: VL032433.D
 Acq: 31 Aug 2018 1:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
105	100		
120	44.2	37.9	56.9

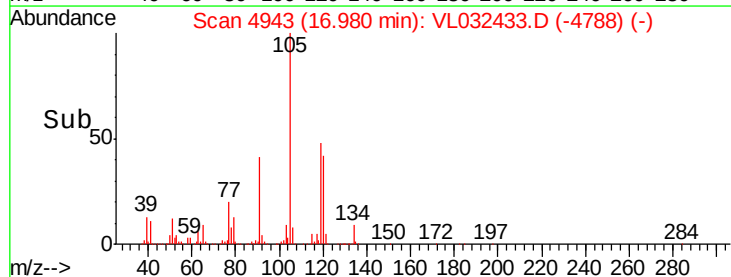
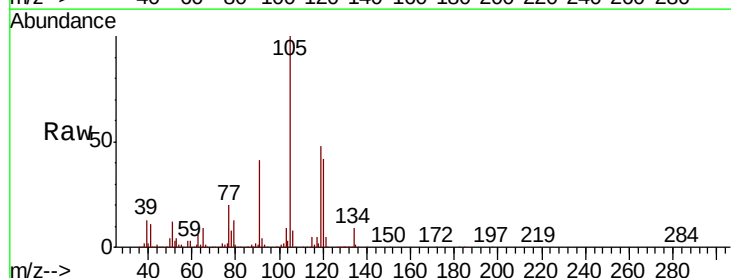
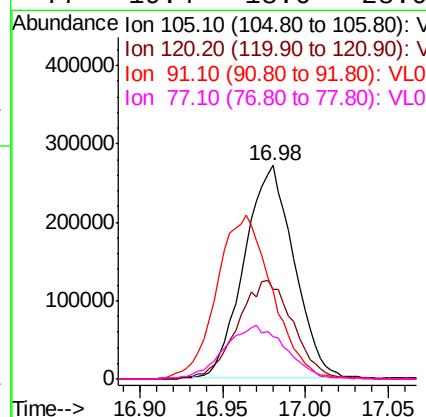
Manual Integrations
 APPROVED

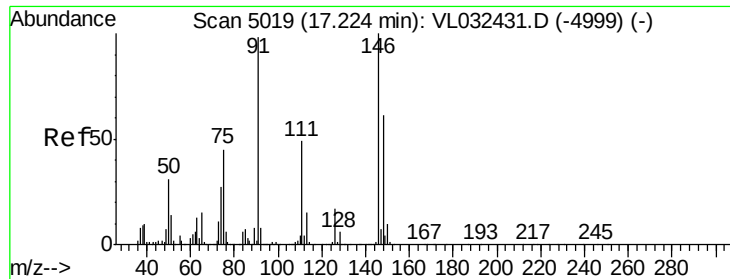
apatel
 9/4/2018 8:25:28 AM



#74
 1,2,4-Trimethylbenzene
 Concen: 1.27 ppbv
 RT: 16.98 min Scan# 4943
 Delta R.T. -0.00 min
 Lab File: VL032433.D
 Acq: 31 Aug 2018 1:49

Tgt Ion	Ratio	Lower	Upper
105	100		
120	41.7	37.8	56.8
91	40.4	41.4	62.0#
77	19.4	18.6	28.0





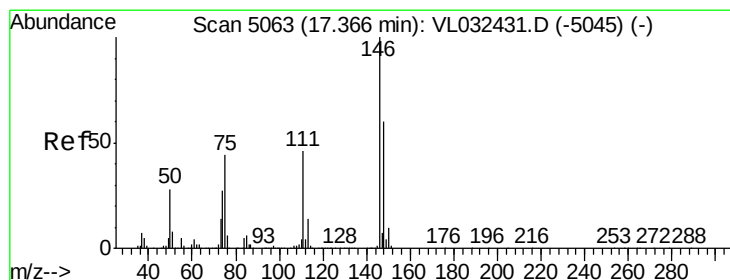
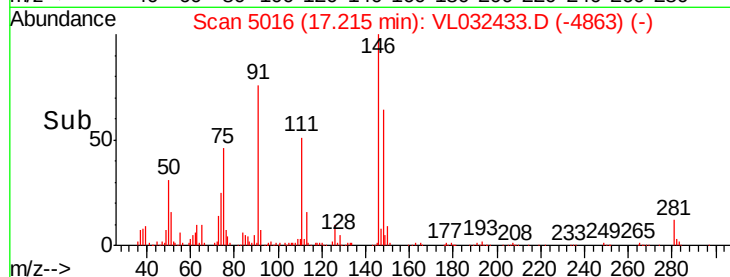
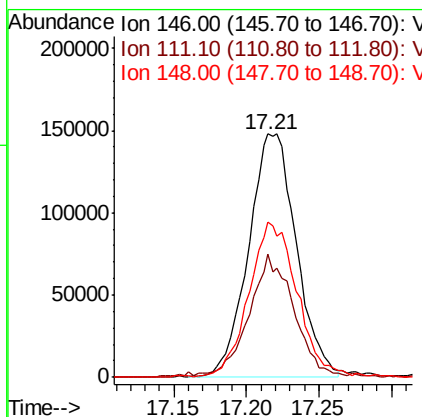
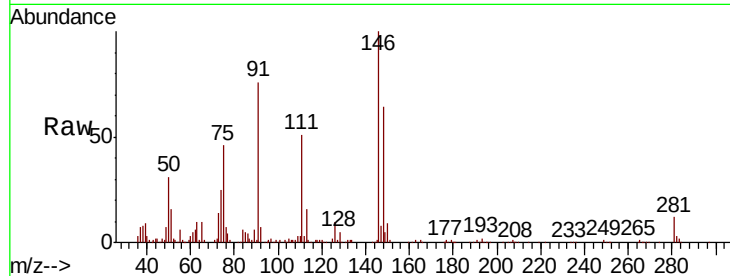
#75
 1,3-Dichlorobenzene
 Concen: 1.18 ppbv
 RT: 17.21 min Scan# 5016
 Delta R.T. -0.01 min
 Lab File: VL032433.D
 Acq: 31 Aug 2018 1:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.3	24.6	73.6
148	65.7	32.0	96.2

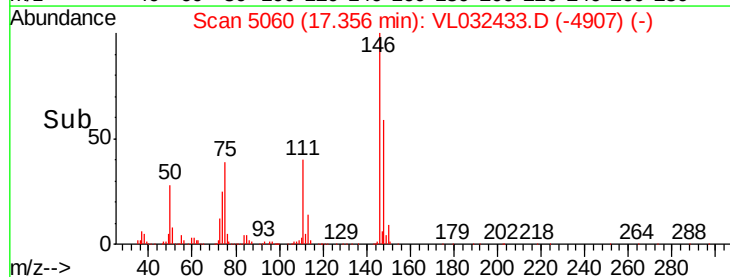
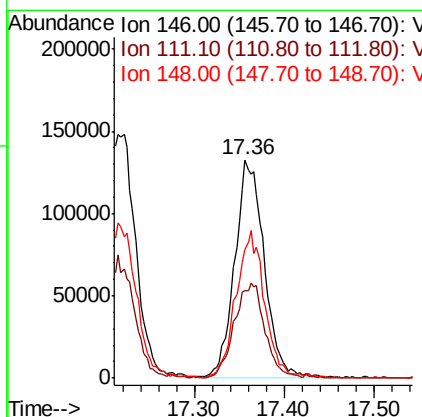
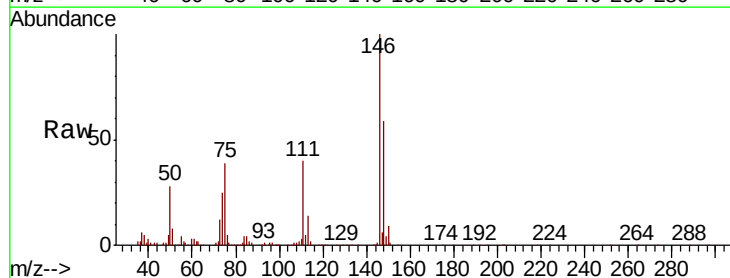
Manual Integrations
 APPROVED

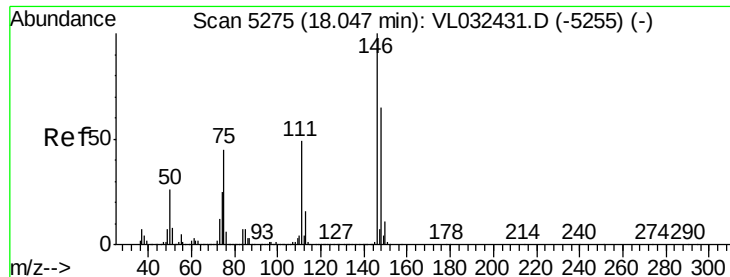
apatel
 9/4/2018 8:25:28 AM



#76
 1,4-Dichlorobenzene
 Concen: 1.16 ppbv m
 RT: 17.36 min Scan# 5060
 Delta R.T. -0.01 min
 Lab File: VL032433.D
 Acq: 31 Aug 2018 1:49

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.3	23.4	70.3
148	65.0	31.9	95.9





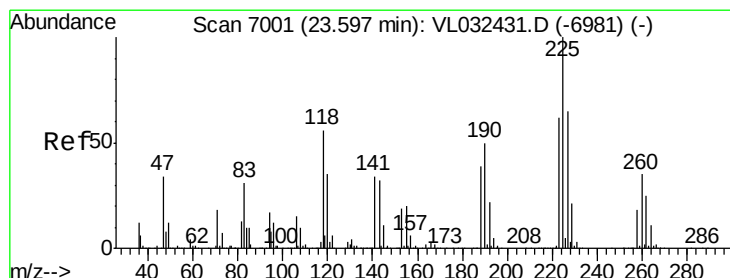
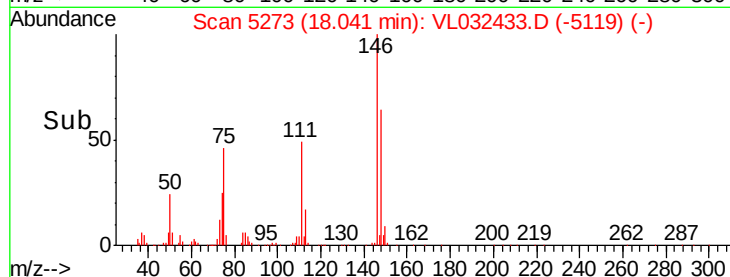
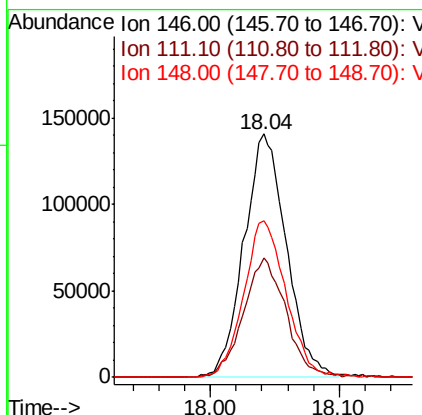
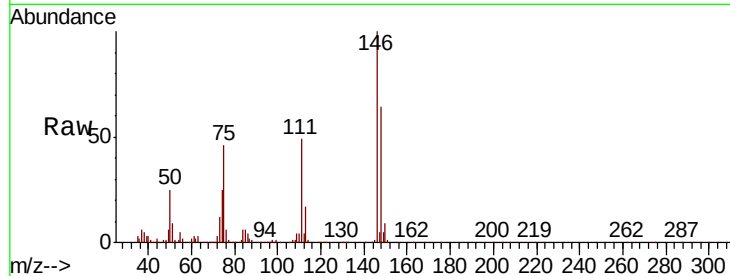
#77
 1,2-Dichlorobenzene
 Concen: 1.18 ppbv
 RT: 18.04 min Scan# 5273
 Delta R.T. -0.01 min
 Lab File: VL032433.D
 Acq: 31 Aug 2018 1:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.7	24.9	74.7
148	64.6	31.9	95.9

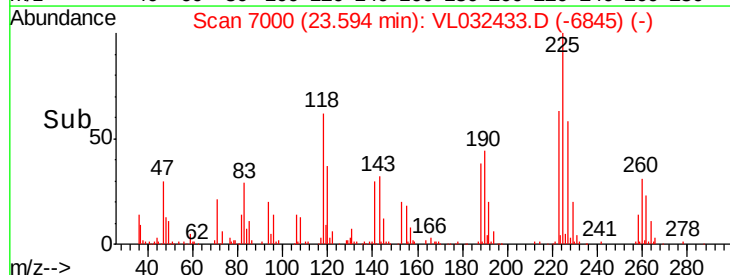
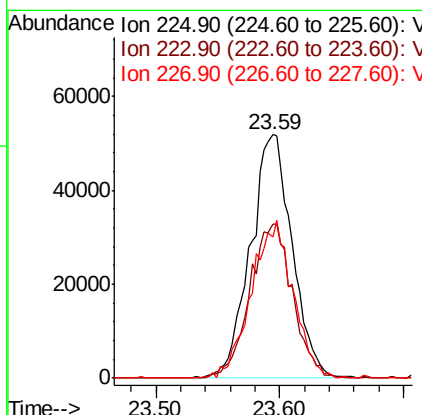
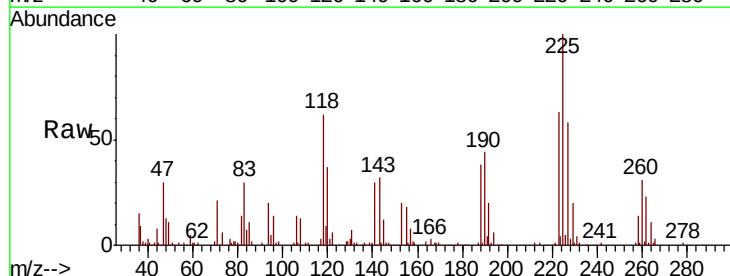
Manual Integrations
 APPROVED

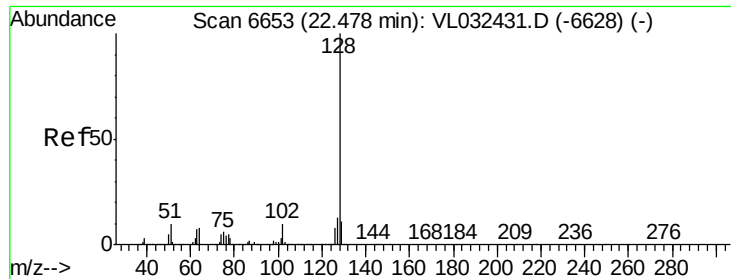
apatel
 9/4/2018 8:25:28 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 1.02 ppbv m
 RT: 23.59 min Scan# 7000
 Delta R.T. -0.00 min
 Lab File: VL032433.D
 Acq: 31 Aug 2018 1:49

Tgt Ion	Ratio	Lower	Upper
225	100		
223	65.2	50.6	76.0
227	64.6	51.2	76.8





#79

Naphthalene

Concen: 1.38 ppbv

RT: 22.48 min Scan# 6653

Delta R.T. 0.00 min

Lab File: VL032433.D

Acq: 31 Aug 2018 1:49

Instrument :

MSVOA_L

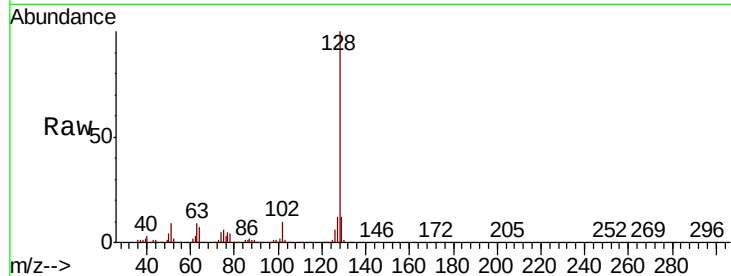
ClientSampleId :

VSTDIC001

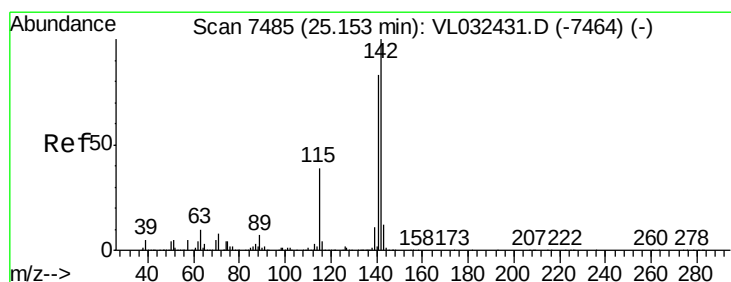
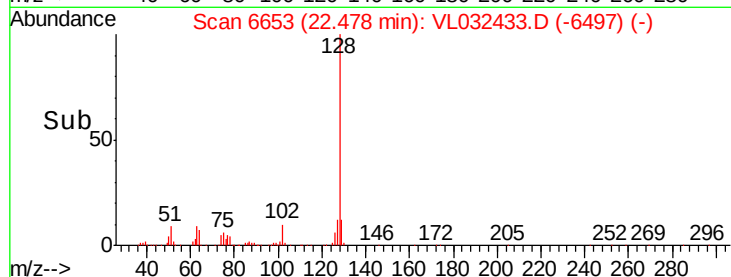
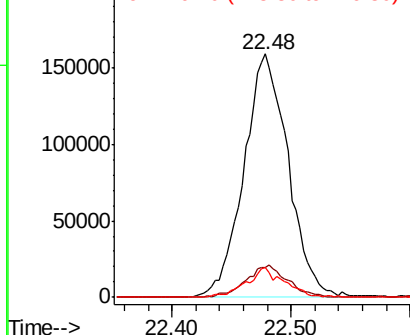
Tot Ion	Ion	Ratio	Lower	Upper
128	100			
127	11.9	10.2	15.2	
129	11.8	8.5	12.7	

Manual Integrations
APPROVED

apatel
9/4/2018 8:25:28 AM



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.84 ppbv

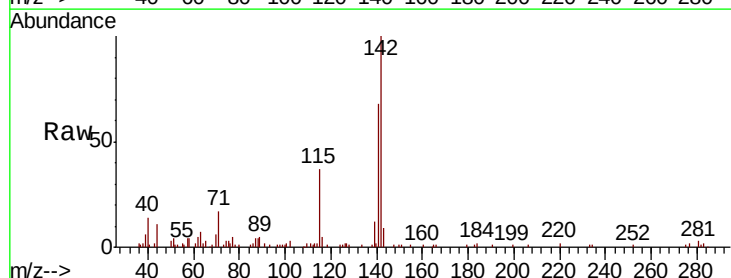
RT: 25.16 min Scan# 7488

Delta R.T. 0.01 min

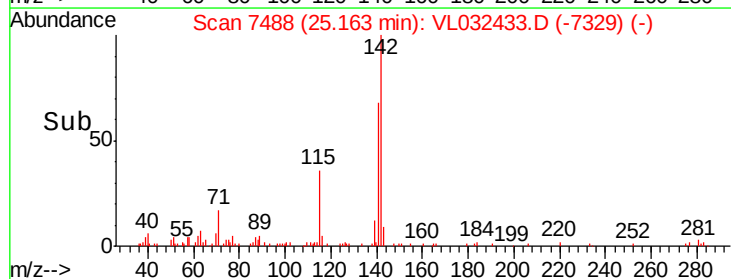
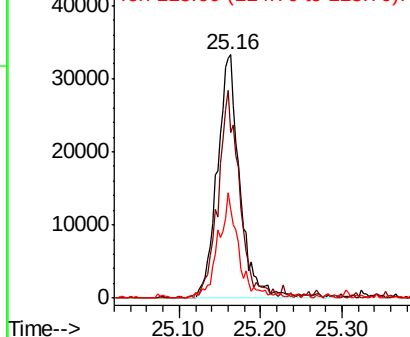
Lab File: VL032433.D

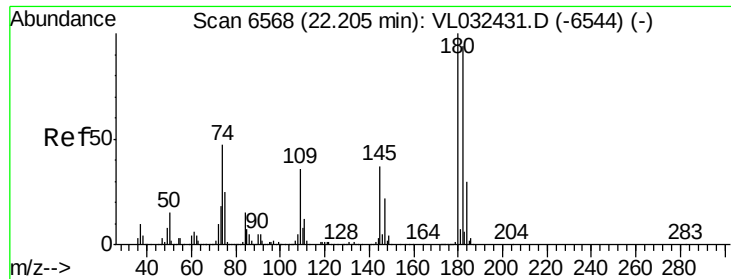
Acq: 31 Aug 2018 1:49

Tgt Ion	Ion	Ratio	Lower	Upper
142	100			
141	80.1	67.0	100.6	
115	38.7	31.2	46.8	



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 1.30 ppbv
 RT: 22.20 min Scan# 6567
 Delta R.T. -0.00 min
 Lab File: VL032433.D
 Acq: 31 Aug 2018 1:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
180	100	209424		
182	98.0		76.2	114.2
184	30.2		23.9	35.9

Manual Integrations
 APPROVED

apatel
 9/4/2018 8:25:28 AM

