

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041918\
 Data File : VL031880.D
 Acq On : 19 Apr 2018 15:44
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

sam
 4/23/2018 12:49:47 PM

Quant Time: Apr 20 08:04:32 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Apr 13 2018
 QLast Update : Fri Apr 13 16:50:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.89	49	1269969	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	2943609	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	3059988m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.73	95	2381406	9.68	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.80%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.17	85	2227318	8.50	ppbv	100
3) Chlorodifluoromethane	3.10	51	1363039	9.23	ppbv	98
4) Chloromethane	3.26	50	709526	9.41	ppbv	96
5) Vinyl Chloride	3.39	62	751295	8.85	ppbv	99
6) Bromomethane	3.61	94	531226	9.52	ppbv	97
7) Chloroethane	3.70	64	314220	9.28	ppbv	91
8) Dichlorotetrafluoroethane	3.31	85	1873050	8.71	ppbv	99
9) Propene	3.13	41	540753	10.59	ppbv	99
10) Heptane	8.39	43	1751165	10.57	ppbv	98
11) Trichlorofluoromethane	4.11	101	2222434	8.65	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.67	101	1426410	8.55	ppbv	99
13) Ethanol	3.75	45	142928	8.25	ppbv	100
14) Bromoethene	3.89	108	619392	9.84	ppbv	97
15) Acetone	4.01	43	1663235	8.51	ppbv	98
16) 1,3-Butadiene	3.46	39	670660	9.27	ppbv	88
17) tert-Butyl alcohol	4.47	59	825124	10.22	ppbv	98
18) 1,1-Dichloroethene	4.46	96	658674	9.19	ppbv	96
19) Isopropyl Alcohol	4.13	45	1006328	9.22	ppbv	99
20) Methylene Chloride	4.52	84	606316	8.52	ppbv	95
21) Allyl Chloride	4.59	41	1057334	9.47	ppbv	100
22) trans-1,2-Dichloroethene	5.08	96	697254	9.38	ppbv	98
23) Vinyl Acetate	5.28	43	2013097	10.16	ppbv	99
24) 1,1-Dichloroethane	5.21	63	1801830	9.12	ppbv	100
25) Ethyl Acetate	5.89	43	2979381	9.77	ppbv	100
26) Hexane	5.91	57	1400993	9.86	ppbv	99
27) Carbon Disulfide	4.74	76	1819961	9.86	ppbv	99
28) Methyl tert-Butyl Ether	5.23	73	1791955	10.25	ppbv	99
29) Chloroform	5.98	83	2186912	9.08	ppbv	99
30) Cyclohexane	7.39	84	1081930	10.66	ppbv	99
31) cis-1,2-Dichloroethene	5.77	61	1304191	10.13	ppbv	95
32) 1,1,1-Trichloroethane	6.76	97	2159582	9.20	ppbv	99
34) 2-Butanone	5.45	43	2003152	9.81	ppbv	100
35) Carbon Tetrachloride	7.27	117	2244569	8.78	ppbv	100
36) Benzene	7.14	78	2663396	10.06	ppbv	97
37) 1,2-Dichloroethane	6.55	62	1761523	8.94	ppbv	98
38) Trichloroethene	8.11	130	1032957	9.61	ppbv	95
39) 1,2-Dichloropropane	7.88	63	979952	9.96	ppbv	96
40) 1,4-Dioxane	8.10	88	408872	10.23	ppbv	95
41) Tetrahydrofuran	6.28	42	1018015	10.77	ppbv	99
42) Bromodichloromethane	8.06	83	2277092	9.66	ppbv	99
43) Methyl Methacrylate	8.28	69	981835	10.54	ppbv	98

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041918\
 Data File : VL031880.D
 Acq On : 19 Apr 2018 15:44
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

sam
 4/23/2018 12:49:47 PM

Quant Time: Apr 20 08:04:32 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Apr 13 2018
 QLast Update : Fri Apr 13 16:50:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.13	57	4501454	9.87	ppbv	99
45) t-1,3-Dichloropropene	9.56	75	1437554	11.90	ppbv	99
46) cis-1,3-Dichloropropene	8.98	75	1707018	11.05	ppbv	97
47) 1,1,2-Trichloroethane	9.76	97	1141173	9.76	ppbv	98
48) Dibromochloromethane	10.60	129	1940633	10.27	ppbv	99
49) Bromoform	13.36	173	1500472	10.31	ppbv	99
50) 4-Methyl-2-Pentanone	9.01	43	2372074	10.15	ppbv	99
51) 2-Hexanone	10.42	43	2294214	11.23	ppbv #	100
52) Tetrachloroethene	11.52	164	994920	9.64	ppbv	98
53) Toluene	10.10	91	3203807	10.85	ppbv	100
54) 1,2-Dibromoethane	10.91	107	1717397	10.11	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.43	131	1298983	9.02	ppbv	99
57) Chlorobenzene	12.45	112	2361629	9.10	ppbv	99
58) Ethyl Benzene	13.02	91	4350208	10.24	ppbv	99
59) m/p-Xylene	13.30	91	7074913m	19.17	ppbv	
60) o-Xylene	14.00	91	3621818	9.82	ppbv	99
61) Styrene	13.84	104	866526	12.34	ppbv	99
62) Isopropylbenzene	14.98	105	4539156	9.58	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.99	83	2437522	8.60	ppbv	100
64) n-propylbenzene	15.87	120	1128276	9.80	ppbv	100
65) tert-Butylbenzene	17.06	119	3910677	9.60	ppbv	100
66) Benzyl Chloride	17.31	91	399008	10.87	ppbv	98
67) sec-Butylbenzene	17.61	105	5579120	9.50	ppbv	100
69) p-Isopropyltoluene	17.96	119	4551437	10.00	ppbv	100
70) n-Butylbenzene	18.86	91	4649515	9.81	ppbv	100
71) 2-Chlorotoluene	15.77	91	3400073	9.93	ppbv	100
72) 4-Ethyltoluene	16.15	105	3759693	9.97	ppbv	100
73) 1,3,5-Trimethylbenzene	16.31	105	3385946	9.81	ppbv	99
74) 1,2,4-Trimethylbenzene	17.08	105	3571233	9.27	ppbv	99
75) 1,3-Dichlorobenzene	17.31	146	2195008	9.29	ppbv	99
76) 1,4-Dichlorobenzene	17.46	146	2202949	9.61	ppbv	99
77) 1,2-Dichlorobenzene	18.14	146	2176784	9.36	ppbv	100
78) Hexachloro-1,3-Butadiene	23.68	225	1209865	13.55	ppbv	99
79) Naphthalene	22.59	128	2584693	11.92	ppbv	98
80) Naphthalene, 2-methyl-	25.23	142	713454	16.86	ppbv	98
81) 1,2,4-Trichlorobenzene	22.31	180	1330563	11.06	ppbv	99

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

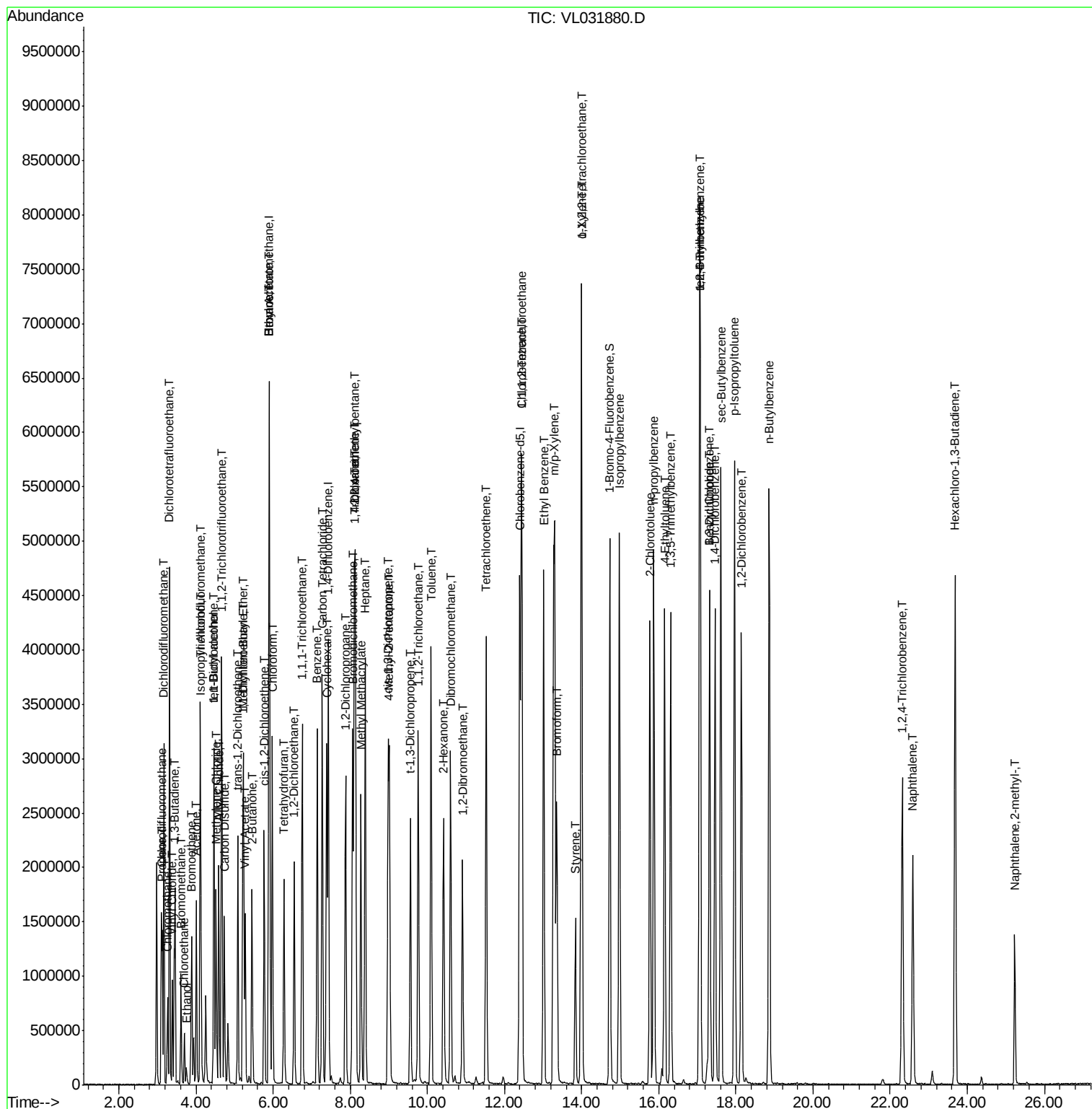
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041918\
Data File : VL031880.D
Acq On : 19 Apr 2018 15:44
Operator : SY/AP
Sample : VSTDCCC010
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

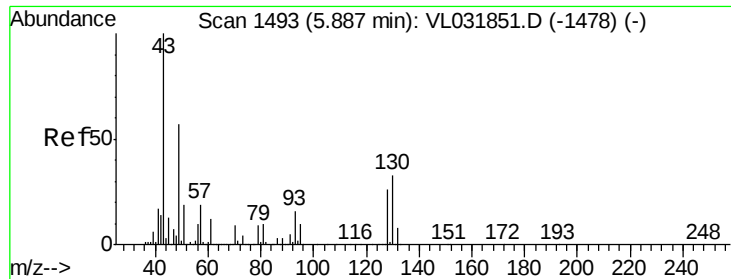
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations

4/23/2018 12:49:47 PM

Quant Time: Apr 20 08:04:32 2018
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Apr
QLast Update : Fri Apr 13 16:50:02 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.89 min Scan# 1494

Delta R.T. -0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 49 Resp: 1269969

Ion Ratio Lower Upper

49 100

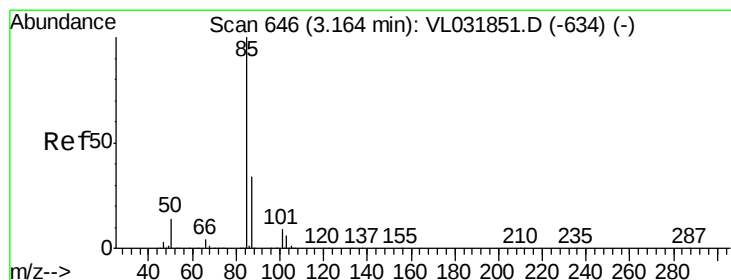
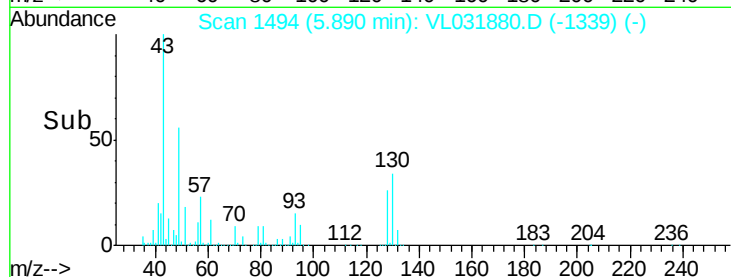
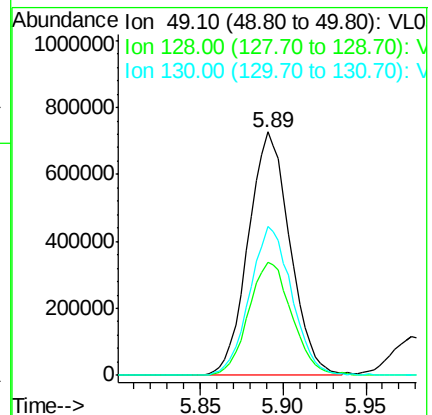
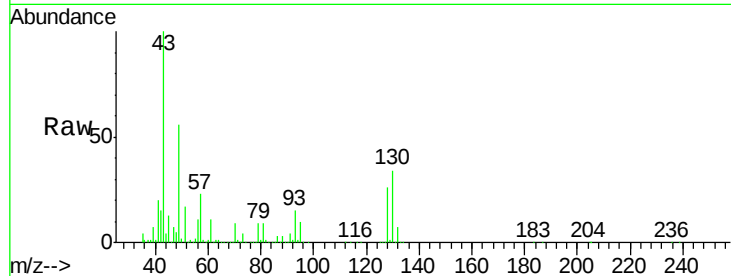
128 48.5 23.9 71.7

130 62.1 30.9 92.7

Manual Integrations
APPROVED

sam

4/23/2018 12:49:47 PM



#2

Dichlorodifluoromethane

Concen: 8.50 ppbv

RT: 3.17 min Scan# 647

Delta R.T. 0.00 min

Lab File: VL031880.D

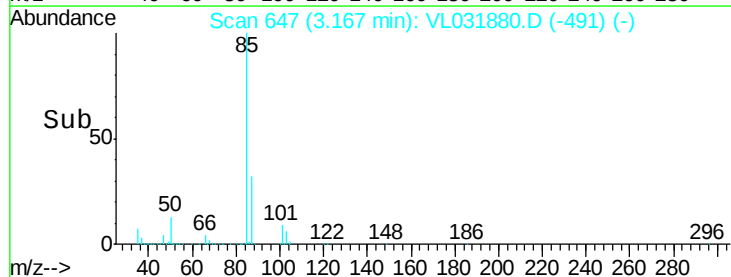
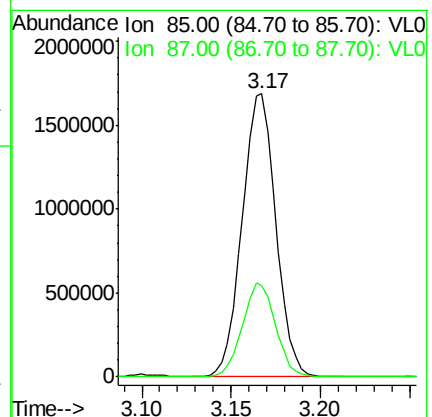
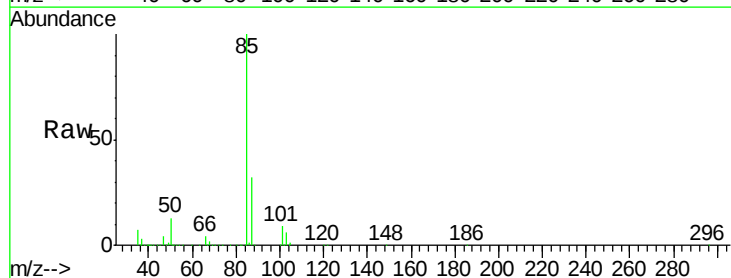
Acq: 19 Apr 2018 15:44

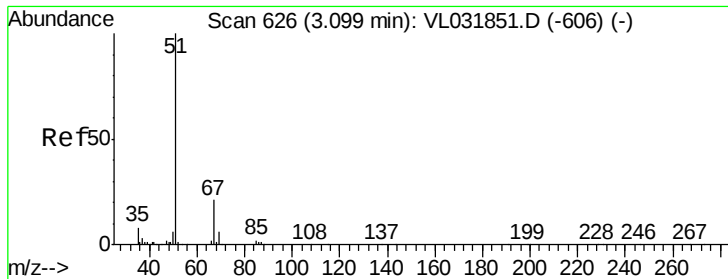
Tgt Ion: 85 Resp: 2227318

Ion Ratio Lower Upper

85 100

87 32.3 25.9 38.9





#3

Chlorodifluoromethane

Concen: 9.23 ppbv

RT: 3.10 min Scan# 626

Delta R.T. -0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

Tot Ion: 51 Resp: 1363039

Ion Ratio Lower Upper

51 100

67 21.0 17.5 26.3

Instrument :

MSVOA_L

ClientSampleId :

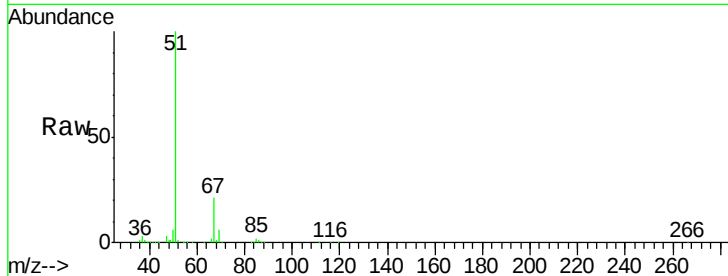
VSTDCCC010

Manual Integrations

APPROVED

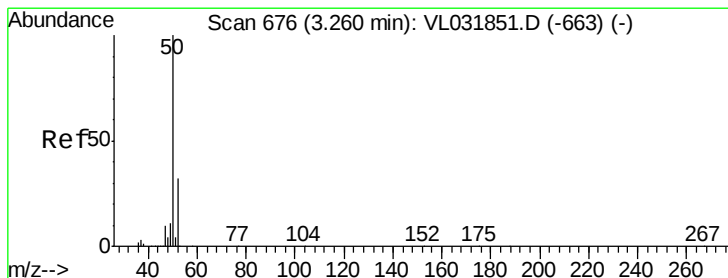
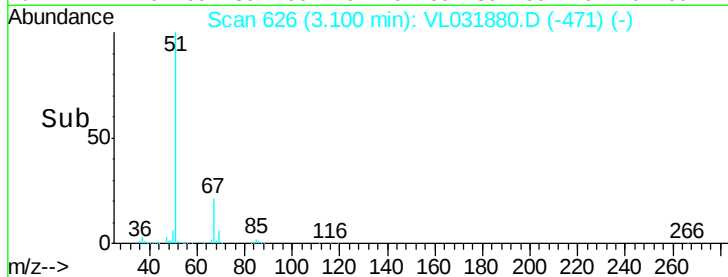
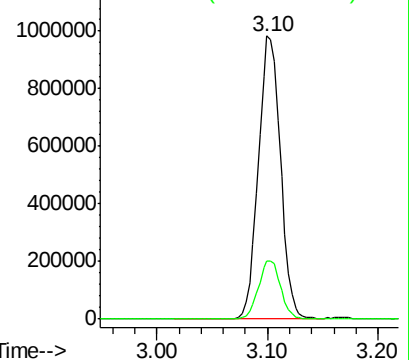
sam

4/23/2018 12:49:47 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.41 ppbv

RT: 3.26 min Scan# 676

Delta R.T. -0.00 min

Lab File: VL031880.D

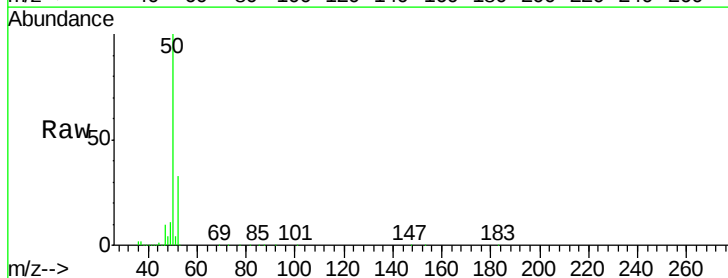
Acq: 19 Apr 2018 15:44

Tgt Ion: 50 Resp: 709526

Ion Ratio Lower Upper

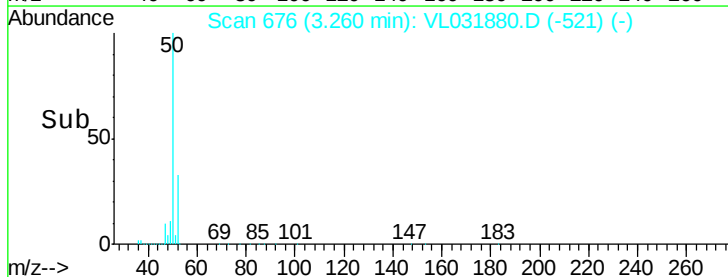
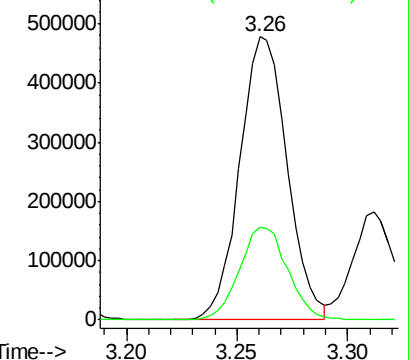
50 100

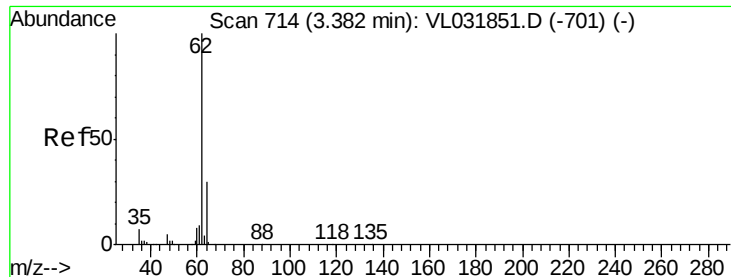
52 32.7 28.1 42.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.85 ppbv

RT: 3.39 min Scan# 715

Delta R.T. 0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 751295

Ion Ratio Lower Upper

62 100

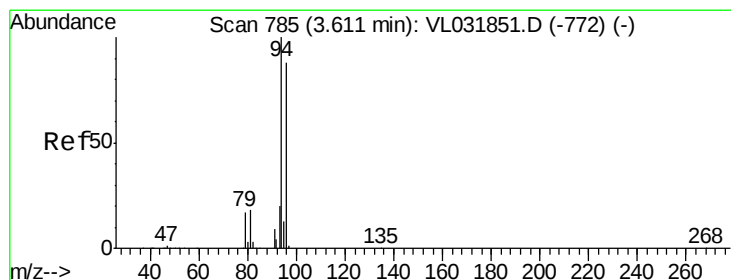
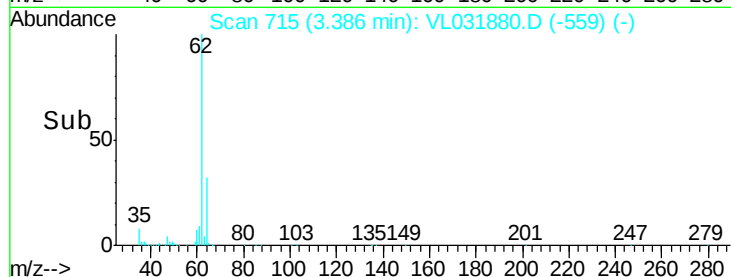
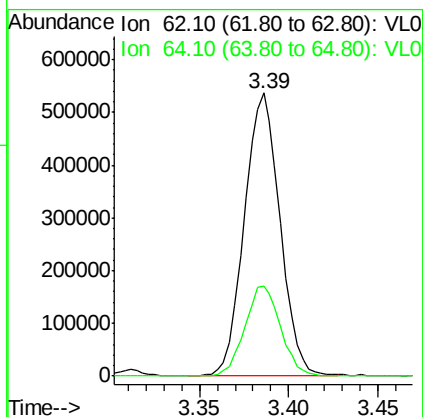
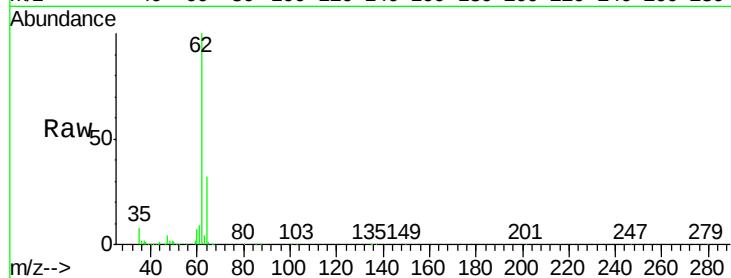
64 31.8 25.9 38.9

Manual Integrations

APPROVED

sam

4/23/2018 12:49:47 PM



#6

Bromomethane

Concen: 9.52 ppbv

RT: 3.61 min Scan# 785

Delta R.T. -0.00 min

Lab File: VL031880.D

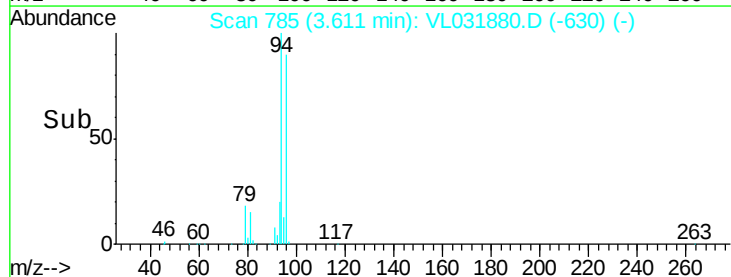
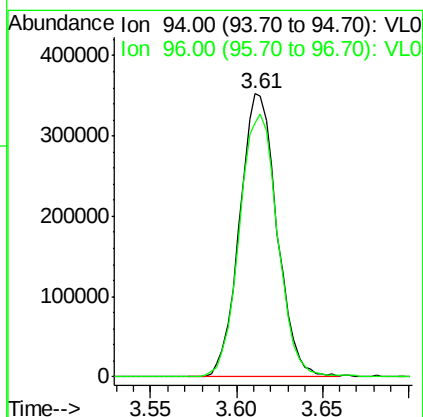
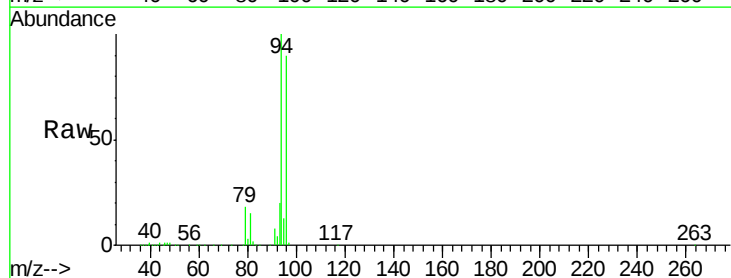
Acq: 19 Apr 2018 15:44

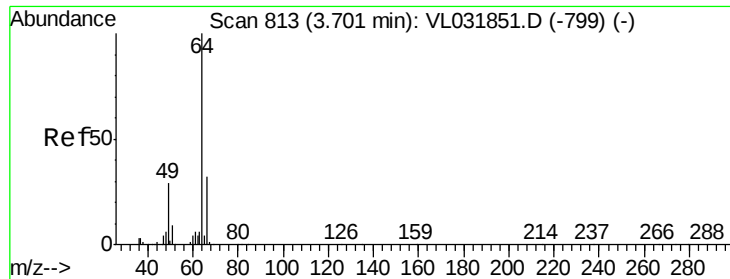
Tgt Ion: 94 Resp: 531226

Ion Ratio Lower Upper

94 100

96 89.7 73.8 110.6





#7

Chloroethane

Concen: 9.28 ppbv

RT: 3.70 min Scan# 813

Delta R.T. 0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 314220

Ion Ratio Lower Upper

64 100

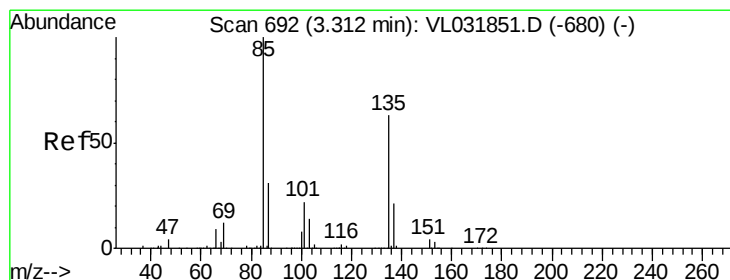
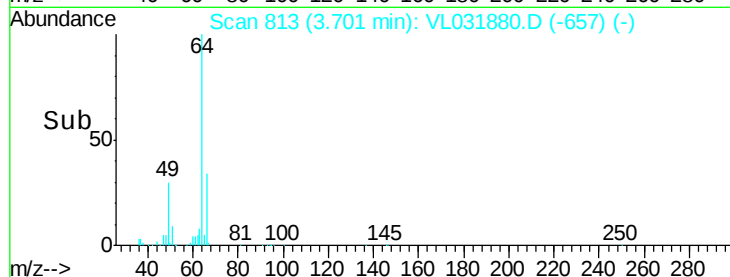
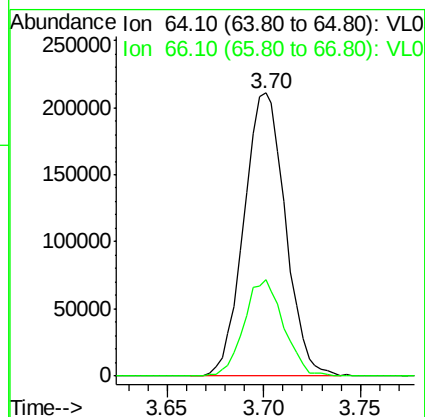
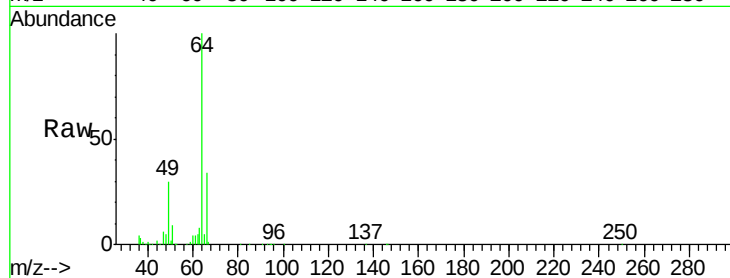
66 33.9 23.4 35.0

Manual Integrations

APPROVED

sam

4/23/2018 12:49:47 PM



#8

Dichlorotetrafluoroethane

Concen: 8.71 ppbv

RT: 3.31 min Scan# 692

Delta R.T. -0.00 min

Lab File: VL031880.D

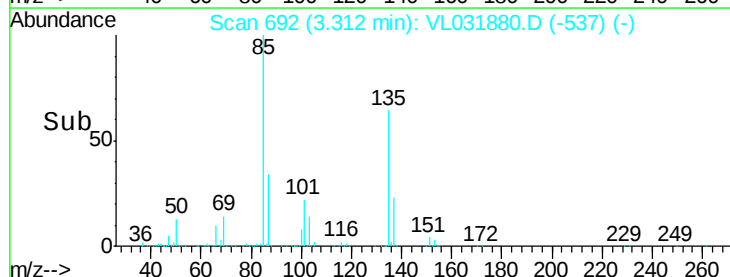
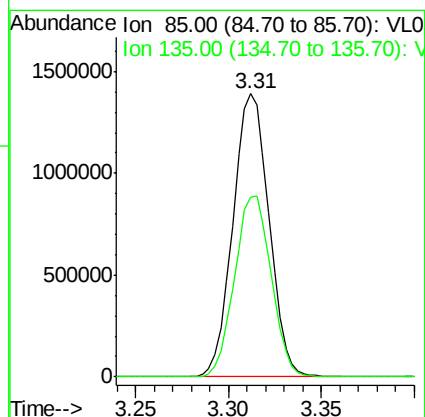
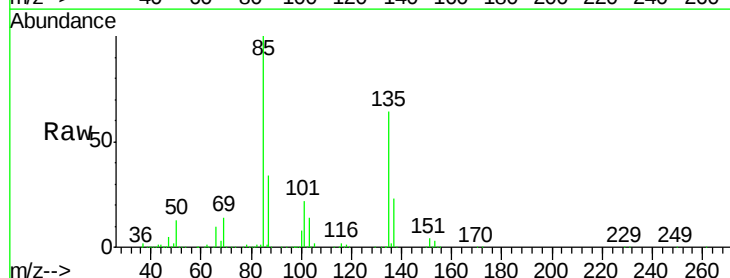
Acq: 19 Apr 2018 15:44

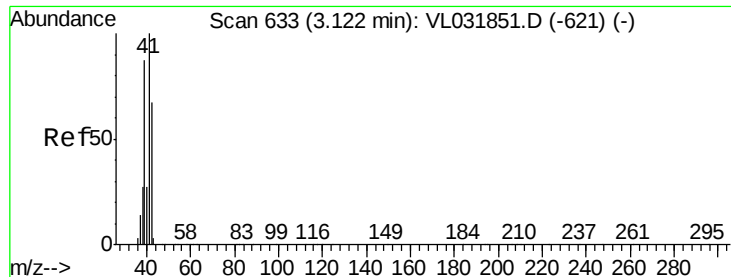
Tgt Ion: 85 Resp: 1873050

Ion Ratio Lower Upper

85 100

135 65.3 52.7 79.1





#9

Propene

Concen: 10.59 ppbv

RT: 3.13 min Scan# 634

Delta R.T. 0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 540753

Ion Ratio Lower Upper

41 100

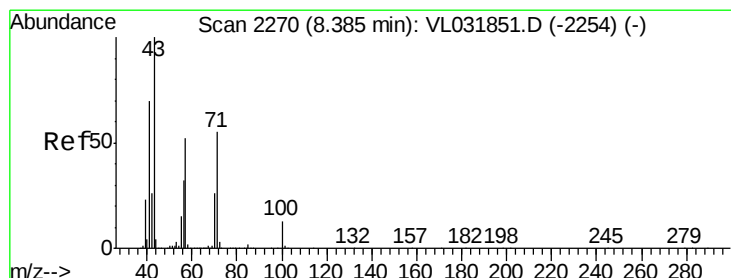
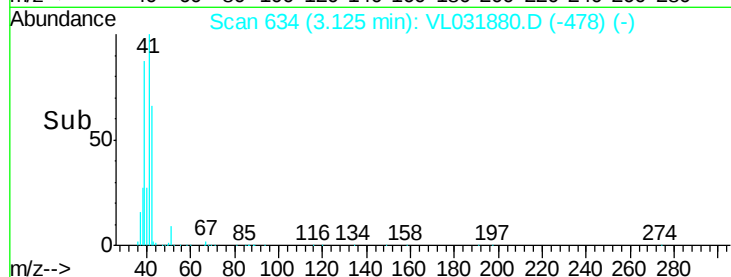
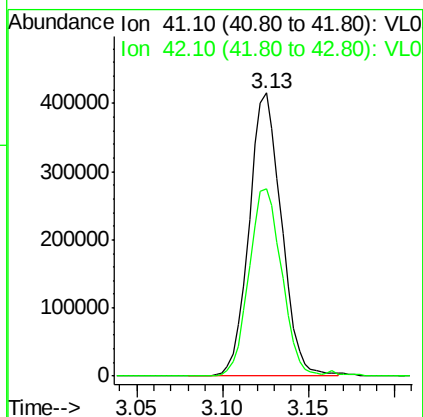
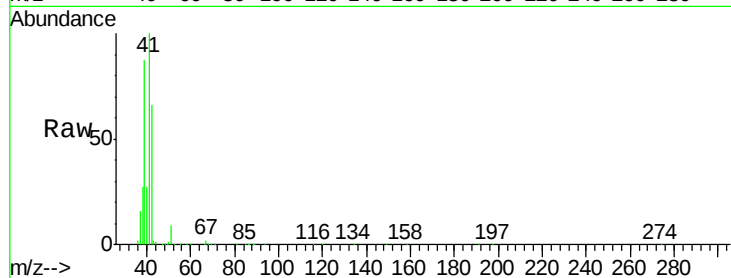
42 67.9 55.0 82.4

Manual Integrations

APPROVED

sam

4/23/2018 12:49:47 PM



#10

Heptane

Concen: 10.57 ppbv

RT: 8.39 min Scan# 2271

Delta R.T. 0.00 min

Lab File: VL031880.D

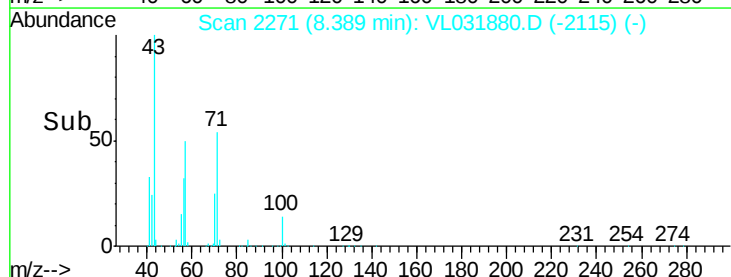
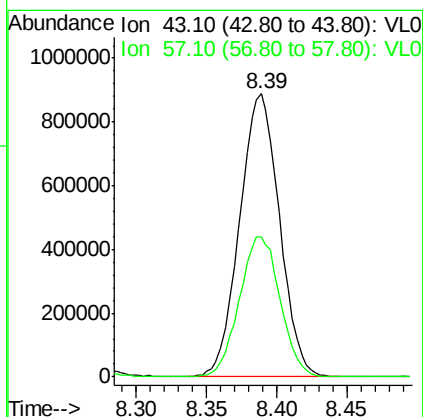
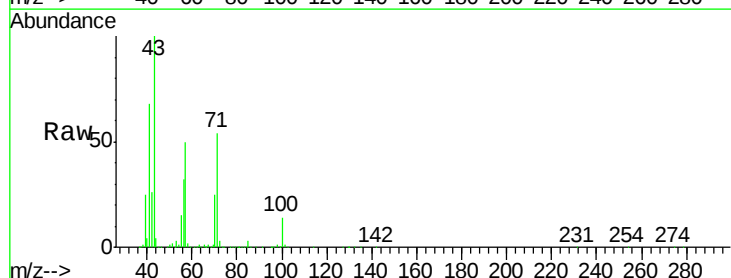
Acq: 19 Apr 2018 15:44

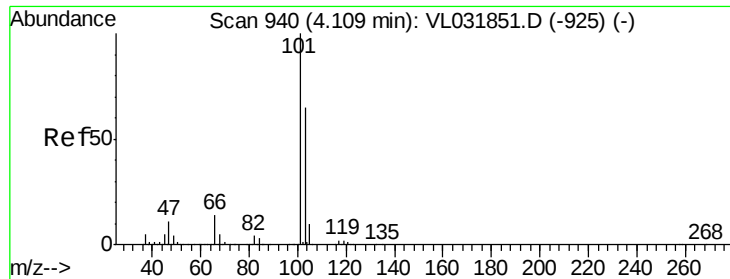
Tgt Ion: 43 Resp: 1751165

Ion Ratio Lower Upper

43 100

57 50.7 41.5 62.3





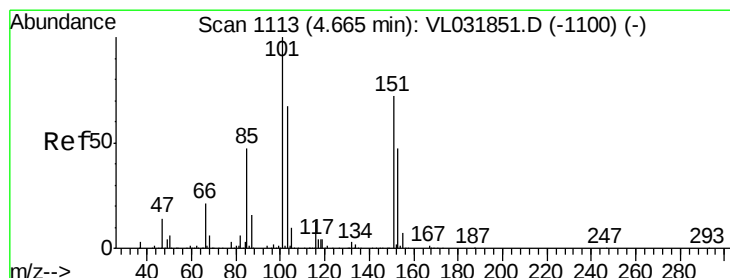
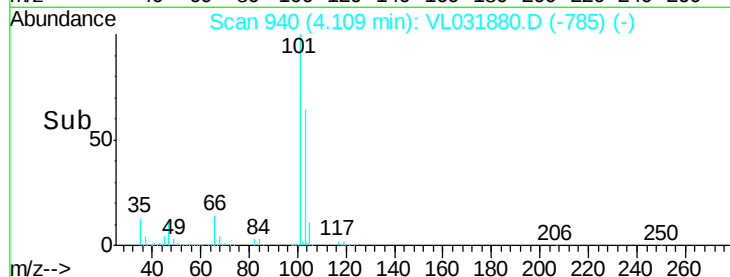
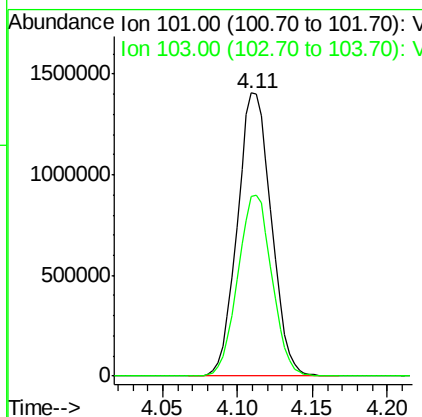
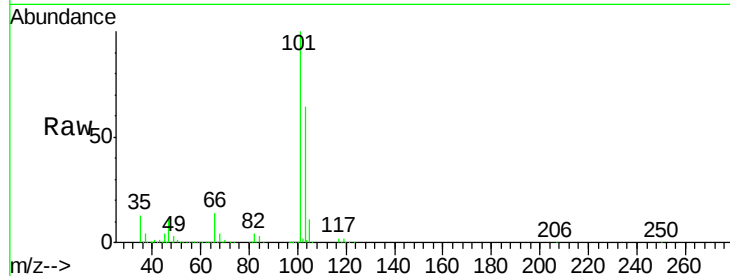
#11
 Trichlorofluoromethane
 Concen: 8.65 ppbv
 RT: 4.11 min Scan# 940
 Delta R.T. -0.00 min
 Lab File: VL031880.D
 Acq: 19 Apr 2018 15:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:101 Resp: 2222434
 Ion Ratio Lower Upper
 101 100
 103 63.6 51.8 77.8

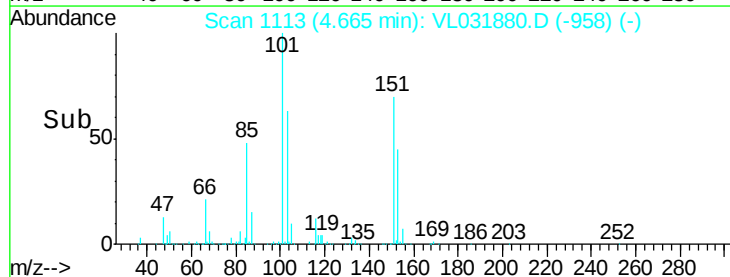
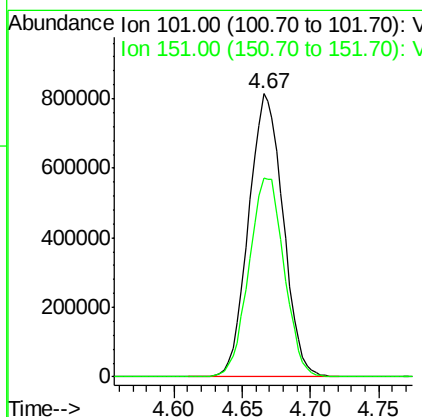
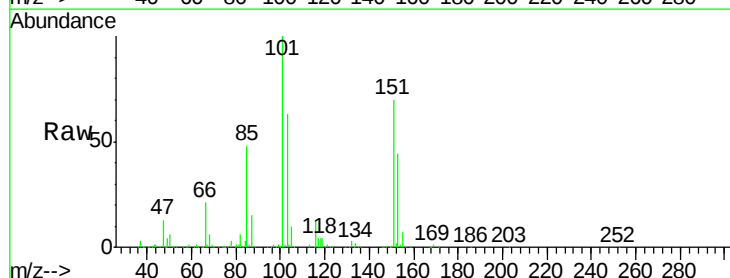
Manual Integrations
 APPROVED

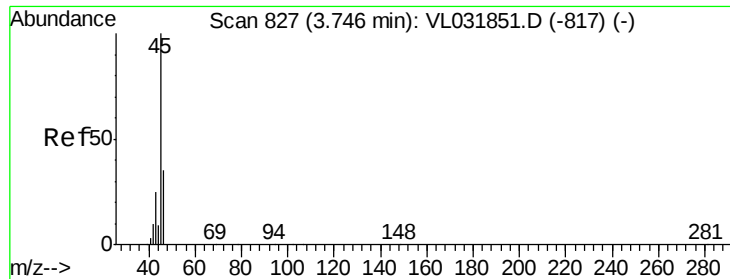
sam
 4/23/2018 12:49:47 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.55 ppbv
 RT: 4.67 min Scan# 1113
 Delta R.T. -0.00 min
 Lab File: VL031880.D
 Acq: 19 Apr 2018 15:44

Tgt Ion:101 Resp: 1426410
 Ion Ratio Lower Upper
 101 100
 151 71.9 57.0 85.6





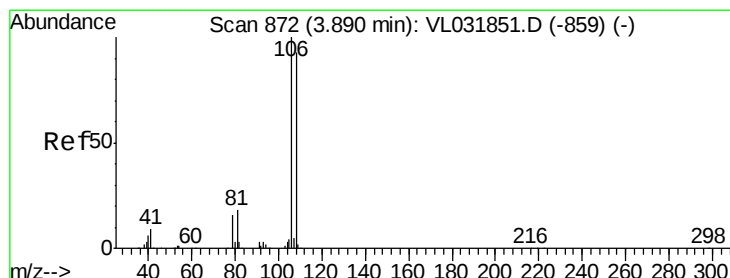
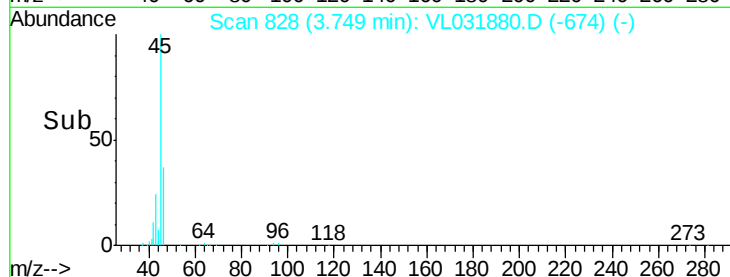
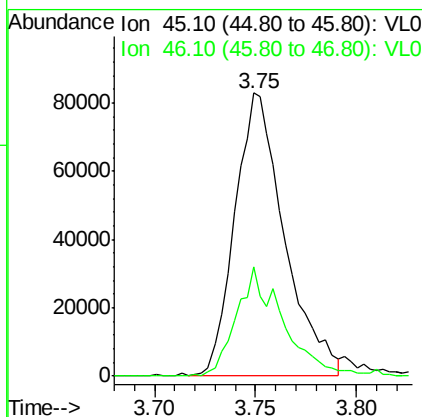
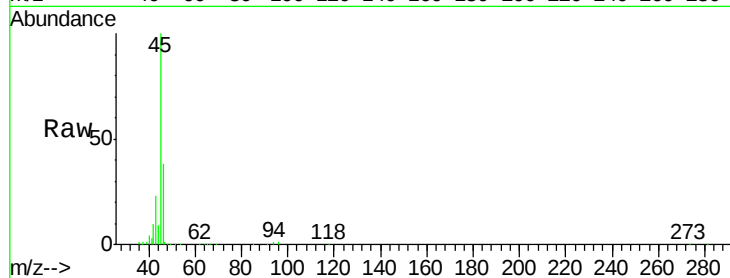
#13
Ethanol
Concen: 8.25 ppbv
RT: 3.75 min Scan# 828
Delta R.T. -0.00 min
Lab File: VL031880.D
Acq: 19 Apr 2018 15:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	45	Resp	142928
Ion Ratio	100	Lower	Upper
46	36.5	14.6	58.6

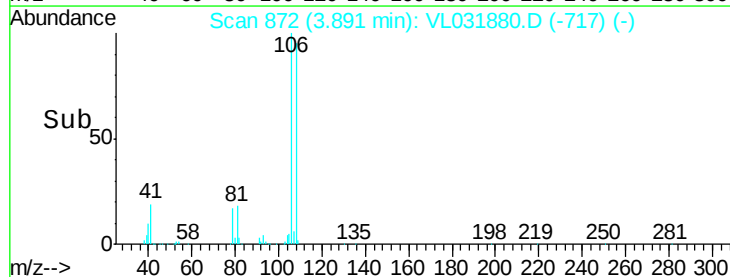
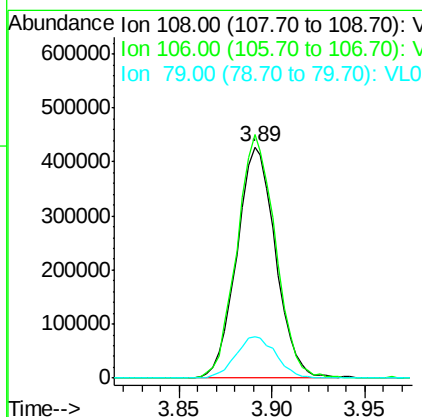
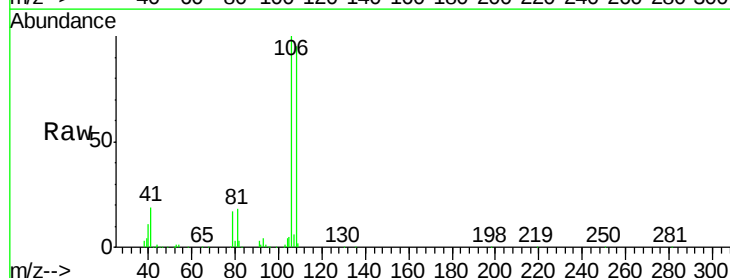
Manual Integrations
APPROVED

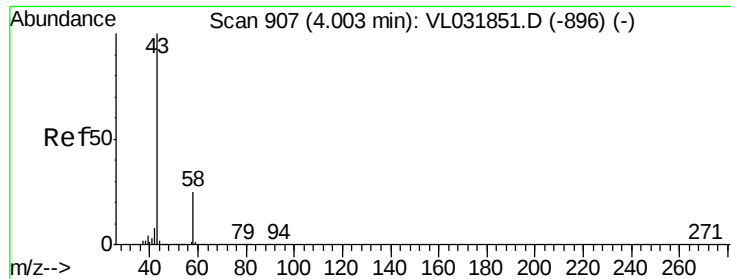
sam
4/23/2018 12:49:47 PM



#14
Bromoethene
Concen: 9.84 ppbv
RT: 3.89 min Scan# 872
Delta R.T. -0.00 min
Lab File: VL031880.D
Acq: 19 Apr 2018 15:44

Tgt Ion	108	Resp	619392
Ion Ratio	100	Lower	Upper
106	105.2	86.6	130.0
79	19.0	15.5	23.3





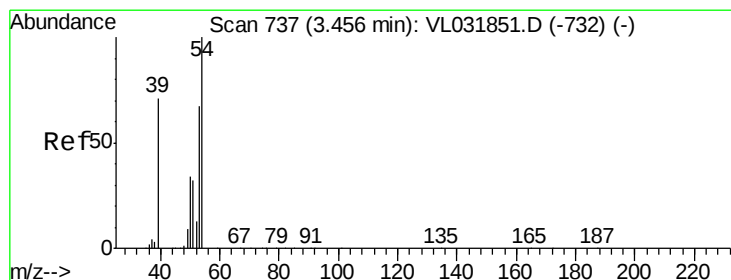
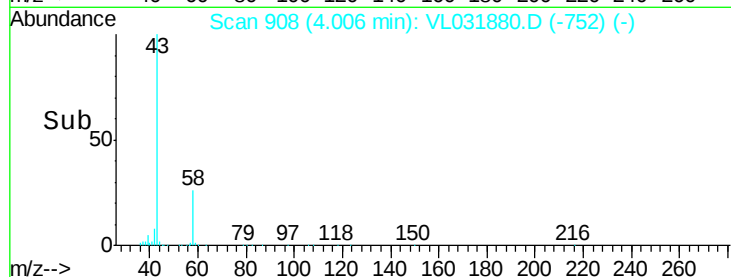
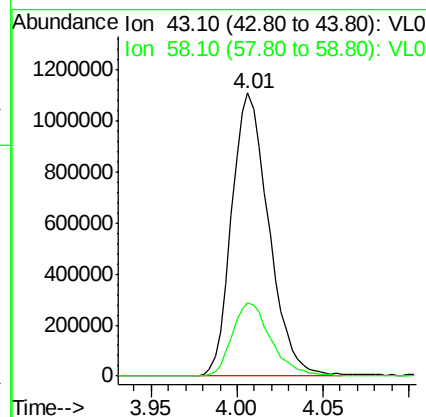
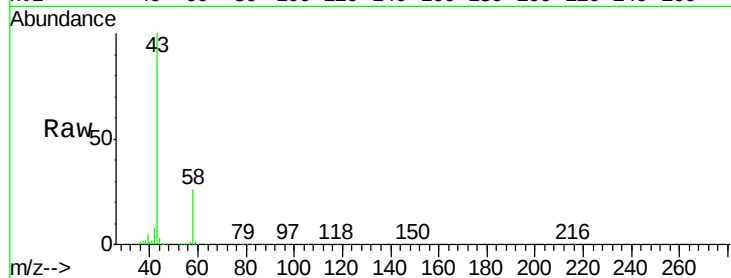
#15
Acetone
Concen: 8.51 ppbv
RT: 4.01 min Scan# 908
Delta R.T. 0.00 min
Lab File: VL031880.D
Acq: 19 Apr 2018 15:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 1663235
Ion Ratio Lower Upper
43 100
58 27.2 20.9 31.3

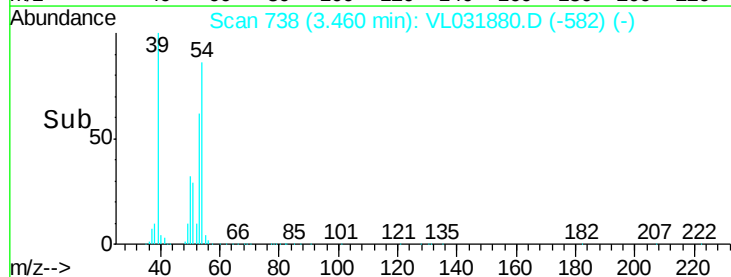
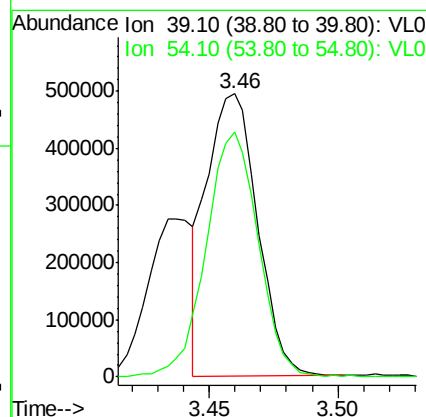
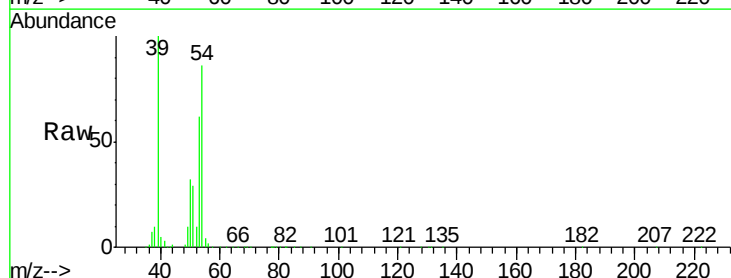
Manual Integrations
APPROVED

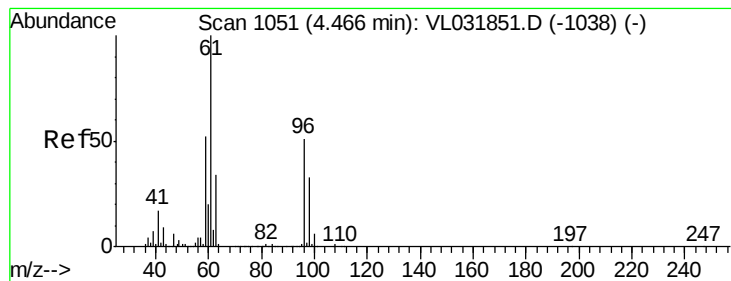
sam
4/23/2018 12:49:47 PM



#16
1,3-Butadiene
Concen: 9.27 ppbv
RT: 3.46 min Scan# 738
Delta R.T. 0.00 min
Lab File: VL031880.D
Acq: 19 Apr 2018 15:44

Tgt Ion: 39 Resp: 670660
Ion Ratio Lower Upper
39 100
54 90.1 63.3 94.9





#17

tert-Butyl alcohol

Concen: 10.22 ppbv

RT: 4.47 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 59 Resp: 825124

Ion Ratio Lower Upper

59 100

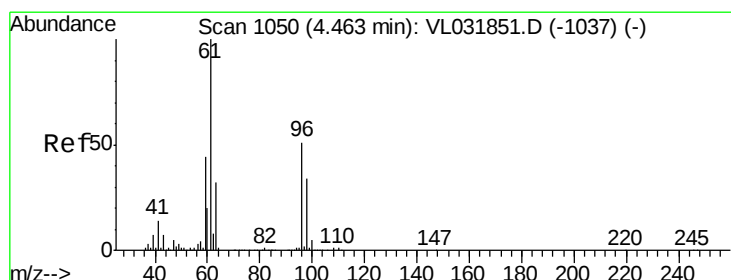
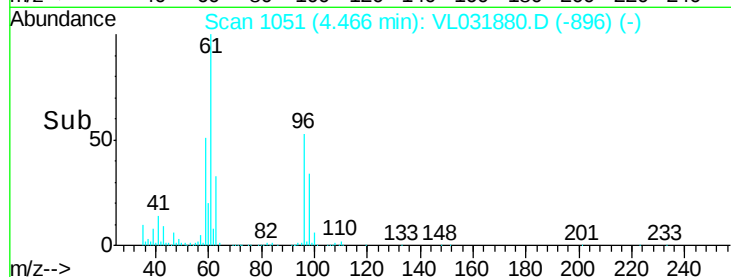
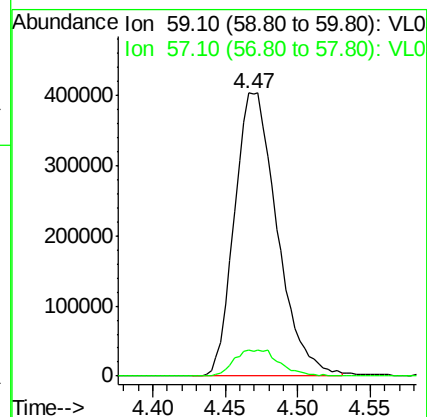
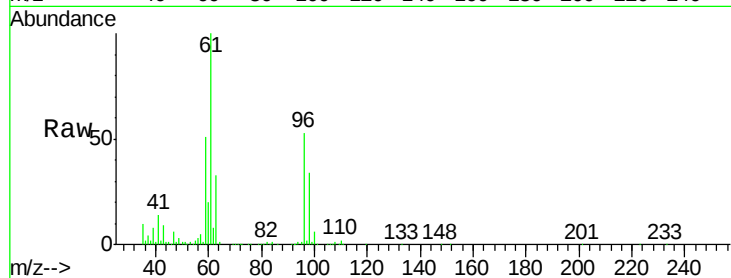
57 10.0 8.5 12.7

Manual Integrations

APPROVED

sam

4/23/2018 12:49:47 PM



#18

1,1-Dichloroethene

Concen: 9.19 ppbv

RT: 4.46 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

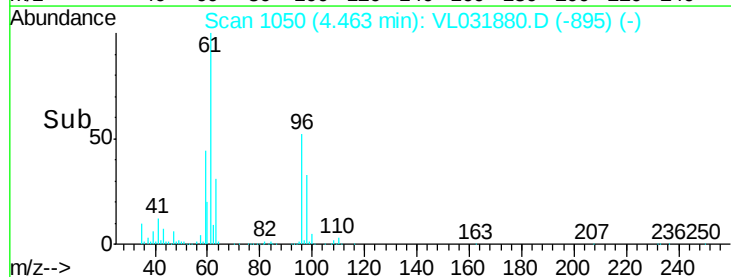
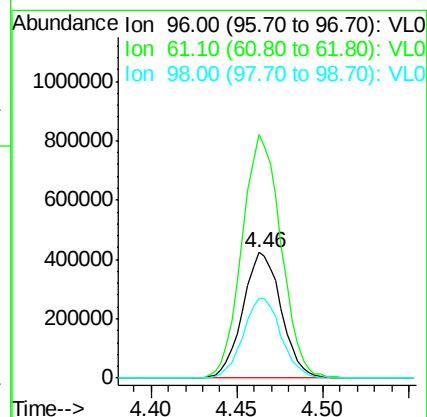
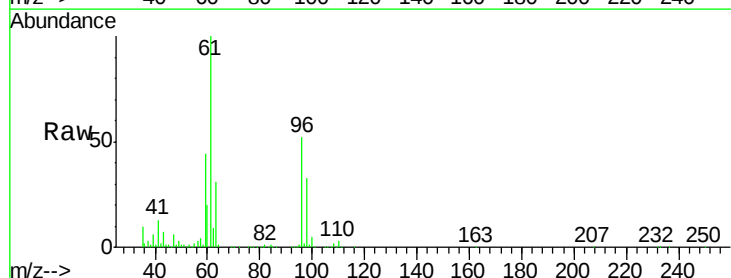
Tgt Ion: 96 Resp: 658674

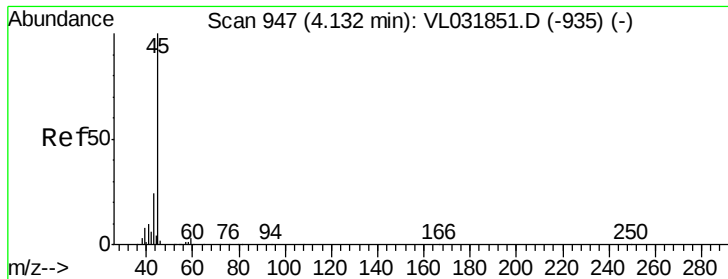
Ion Ratio Lower Upper

96 100

61 193.8 161.0 241.6

98 63.5 52.7 79.1





#19

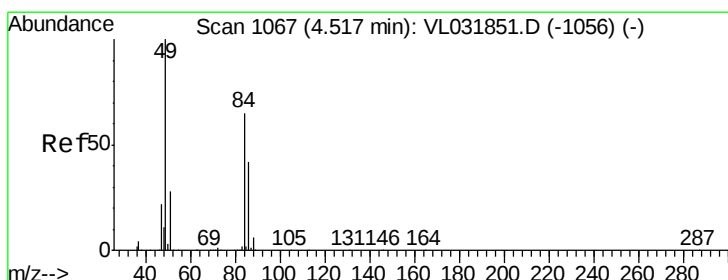
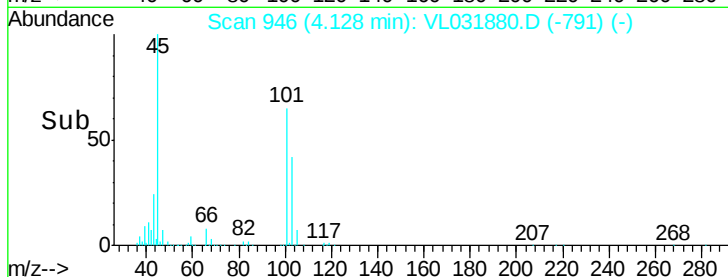
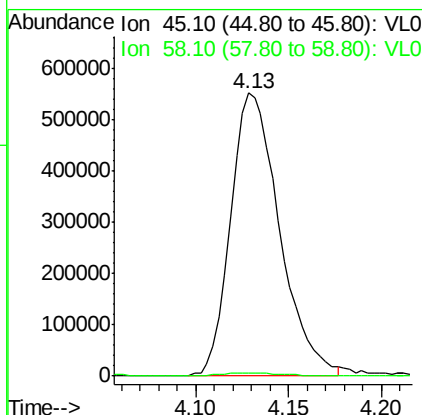
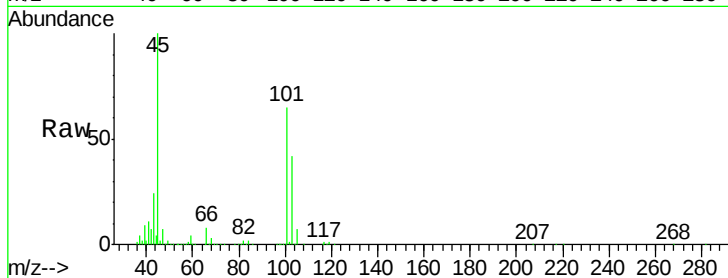
Isopropyl Alcohol
 Concen: 9.22 ppbv
 RT: 4.13 min Scan# 946
 Delta R.T. -0.00 min
 Lab File: VL031880.D
 Acq: 19 Apr 2018 15:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 45 Resp: 1006328
 Ion Ratio Lower Upper
 45 100
 58 1.9 1.7 2.5

Manual Integrations
 APPROVED

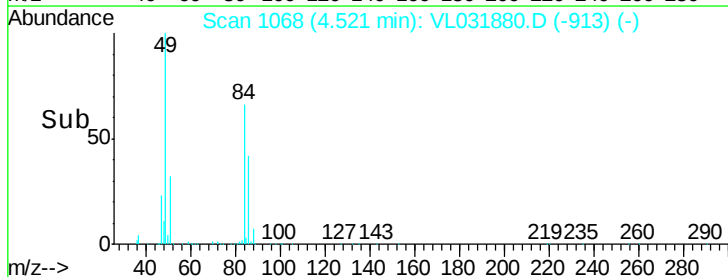
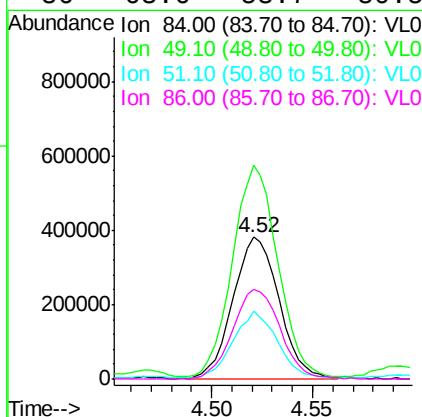
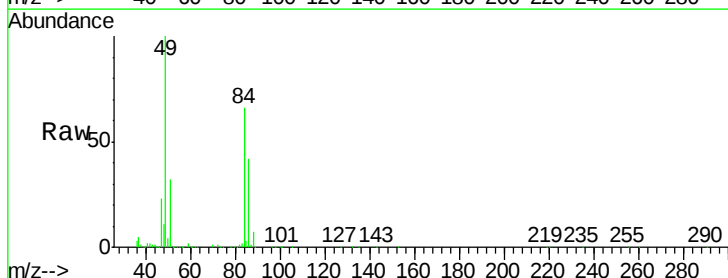
sam
 4/23/2018 12:49:47 PM

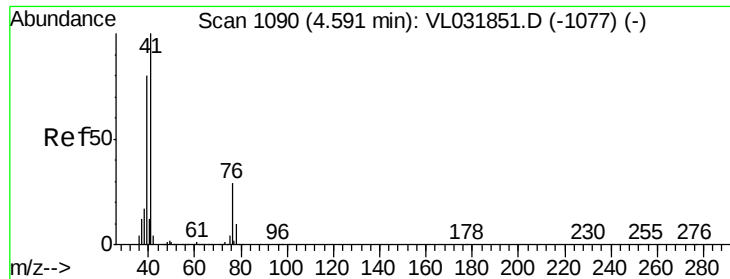


#20

Methylene Chloride
 Concen: 8.52 ppbv
 RT: 4.52 min Scan# 1068
 Delta R.T. -0.00 min
 Lab File: VL031880.D
 Acq: 19 Apr 2018 15:44

Tgt Ion: 84 Resp: 606316
 Ion Ratio Lower Upper
 84 100
 49 150.0 125.6 188.4
 51 47.1 36.4 54.6
 86 63.6 53.7 80.5





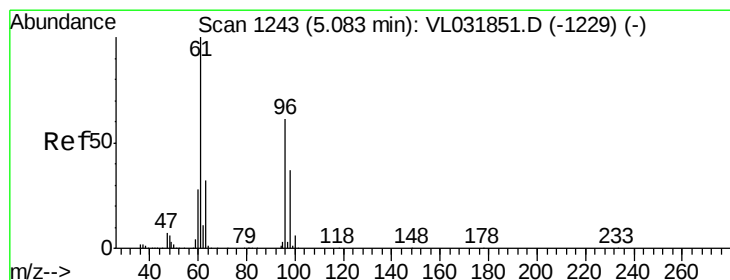
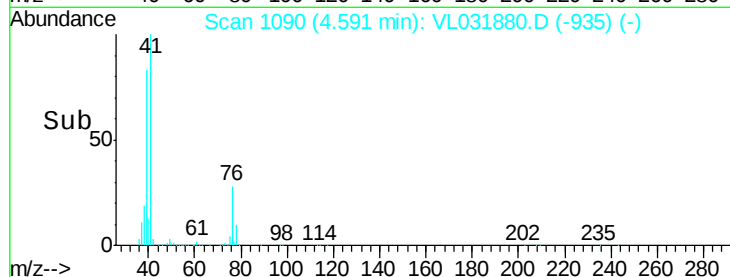
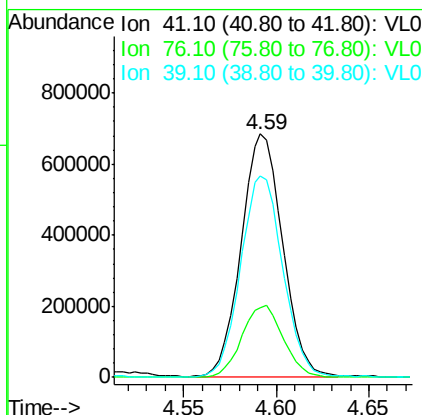
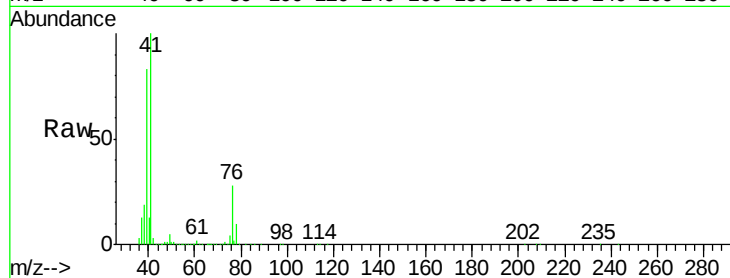
#21
Allvl Chloride
Concen: 9.47 ppbv
RT: 4.59 min Scan# 1090
Delta R.T. -0.00 min
Lab File: VL031880.D
Acq: 19 Apr 2018 15:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
41	100		
76	29.8	23.4	35.2
39	84.8	67.6	101.4

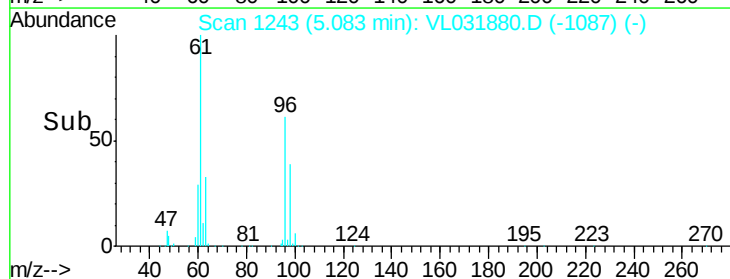
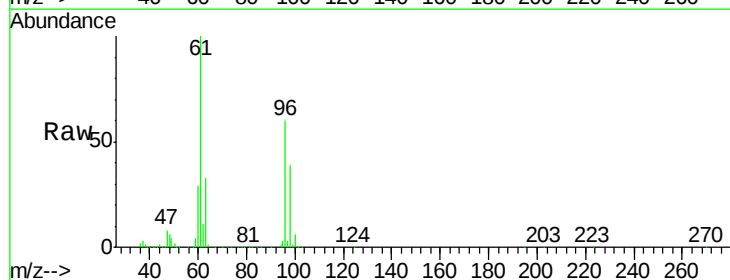
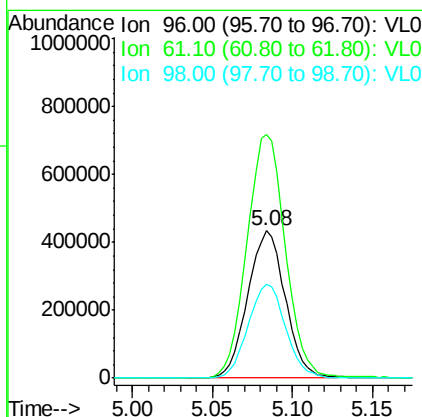
Manual Integrations
APPROVED

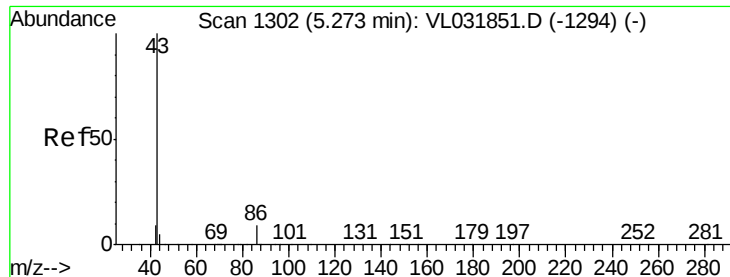
sam
4/23/2018 12:49:47 PM



#22
trans-1,2-Dichloroethene
Concen: 9.38 ppbv
RT: 5.08 min Scan# 1243
Delta R.T. 0.00 min
Lab File: VL031880.D
Acq: 19 Apr 2018 15:44

Tgt Ion	Ratio	Lower	Upper
96	100		
61	165.6	131.1	196.7
98	63.9	47.6	71.4





#23

Vinyl Acetate

Concen: 10.16 ppbv

RT: 5.28 min Scan# 1303

Delta R.T. -0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 2013097

Ion Ratio Lower Upper

43 100

86 8.0 5.8 8.8

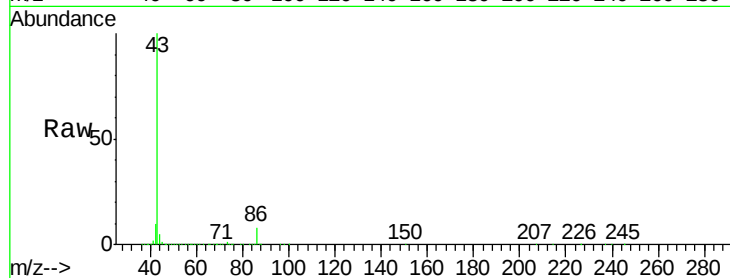
42 10.1 8.5 12.7

44 5.2 4.2 6.4

Manual Integrations
APPROVED

sam

4/23/2018 12:49:47 PM

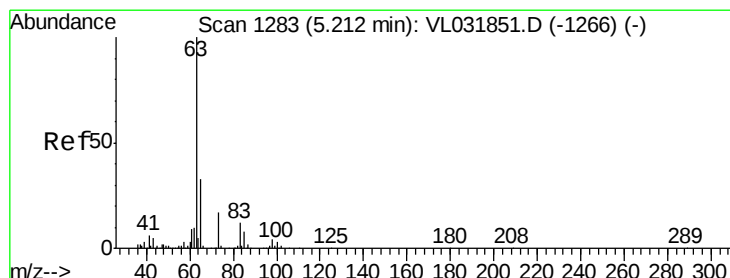
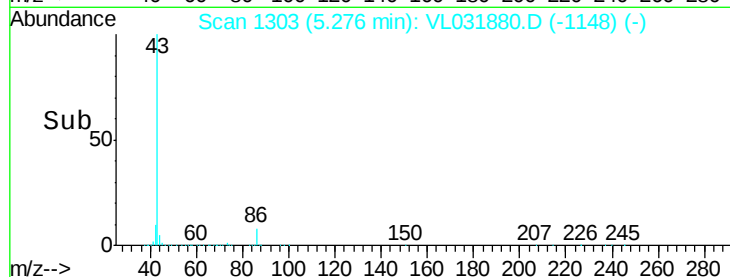
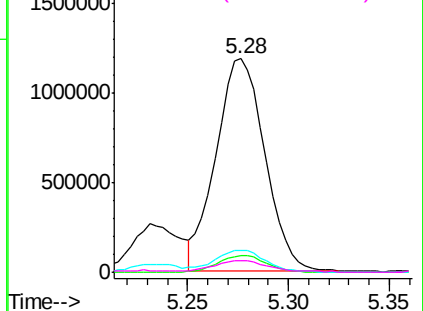


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.12 ppbv

RT: 5.21 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

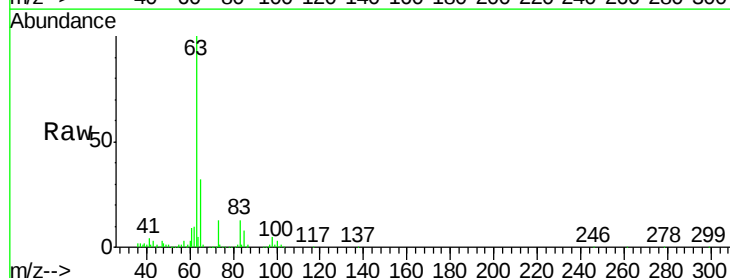
Tgt Ion: 63 Resp: 1801830

Ion Ratio Lower Upper

63 100

98 4.8 2.4 7.2

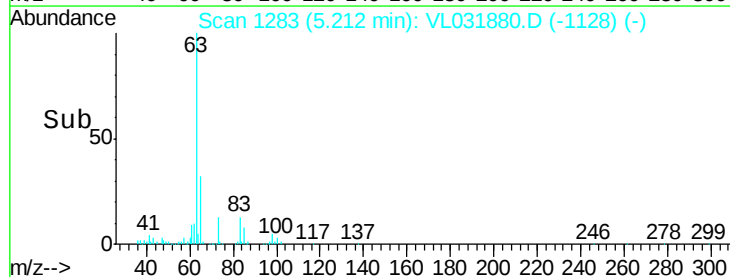
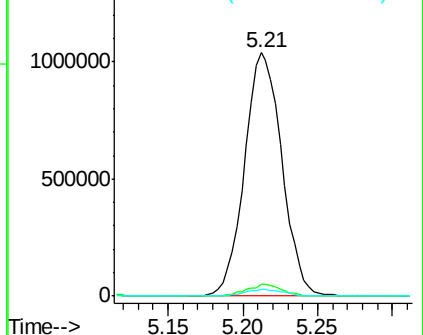
100 2.6 1.5 4.4

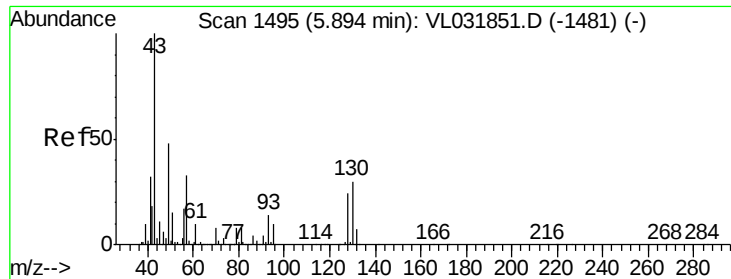


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





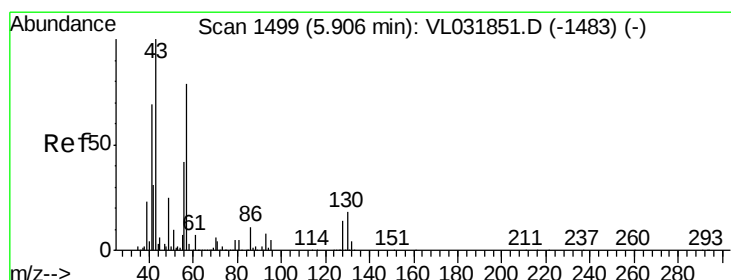
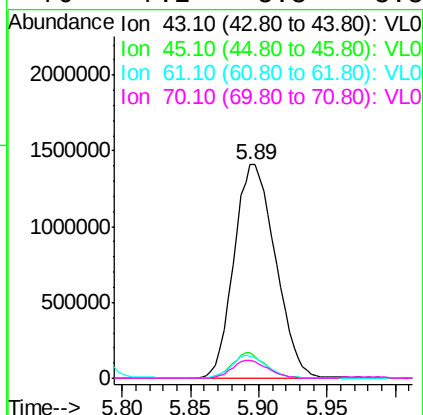
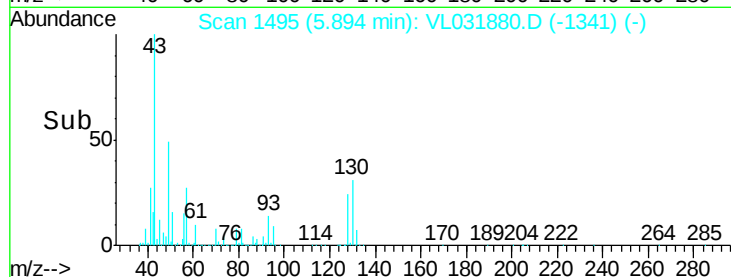
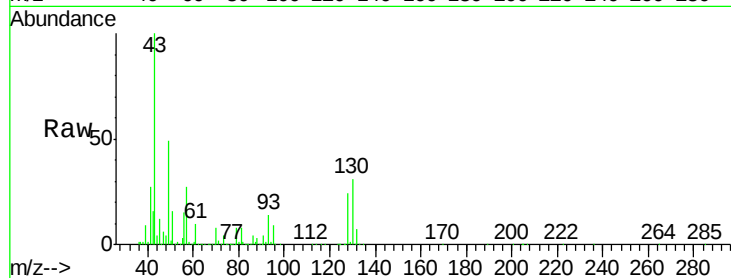
#25
Ethyl Acetate
Concen: 9.77 ppbv
RT: 5.89 min Scan# 1495
Delta R.T. -0.00 min
Lab File: VL031880.D
Acq: 19 Apr 2018 15:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	9.7	7.8	11.8	
61	8.9	7.2	10.8	
70	7.2	5.8	8.8	

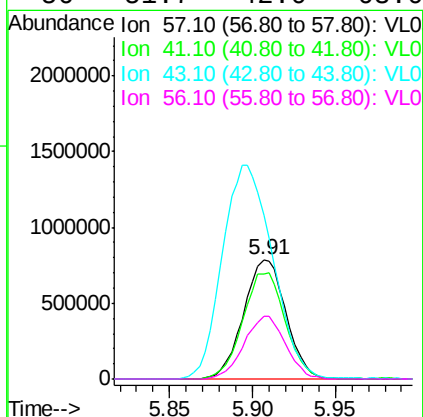
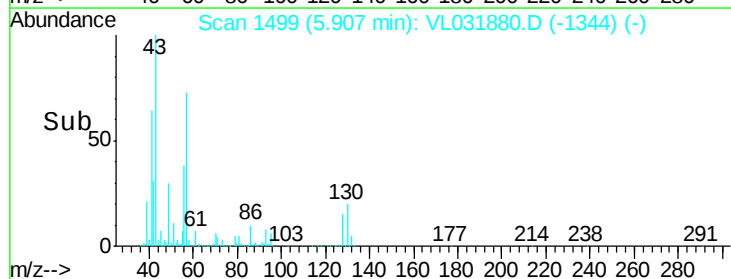
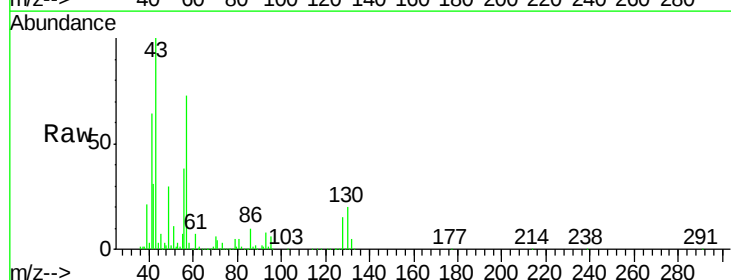
Manual Integrations
APPROVED

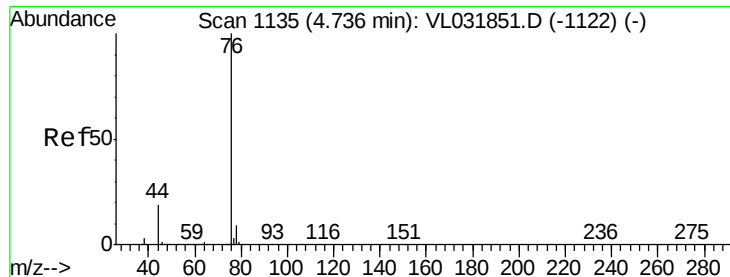
sam
4/23/2018 12:49:47 PM



#26
Hexane
Concen: 9.86 ppbv
RT: 5.91 min Scan# 1499
Delta R.T. -0.00 min
Lab File: VL031880.D
Acq: 19 Apr 2018 15:44

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	89.5	72.0	108.0	
43	213.6	169.8	254.8	
56	51.7	42.0	63.0	





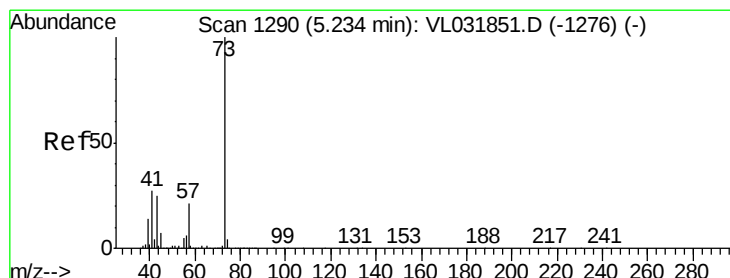
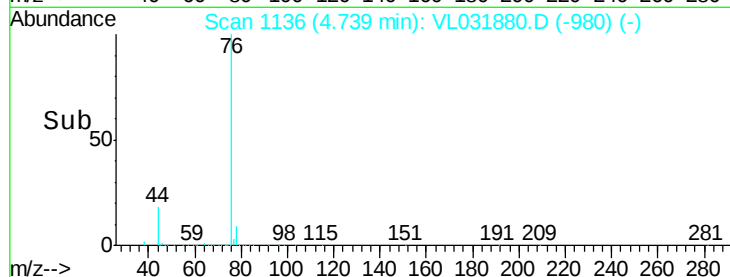
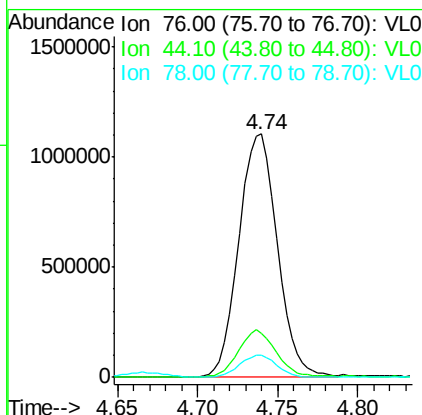
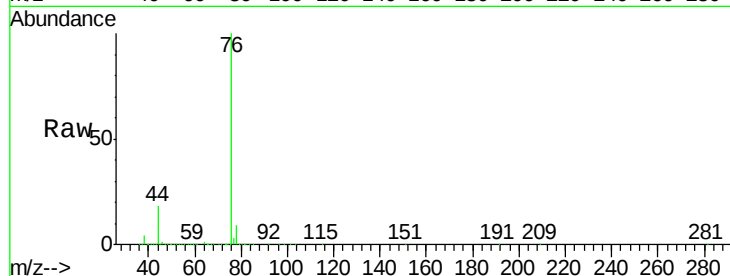
#27
Carbon Disulfide
Concen: 9.86 ppbv
RT: 4.74 min Scan# 1136
Delta R.T. 0.00 min
Lab File: VL031880.D
Acq: 19 Apr 2018 15:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
76	100		
44	19.0	15.6	23.4
78	9.1	7.6	11.4

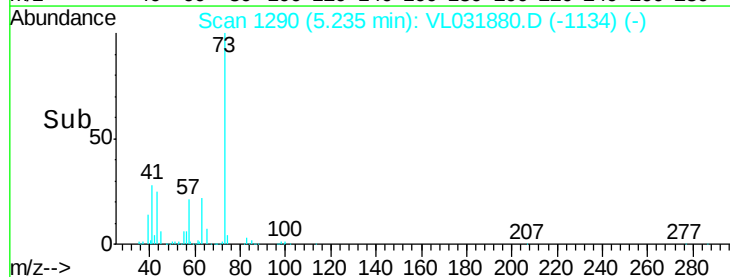
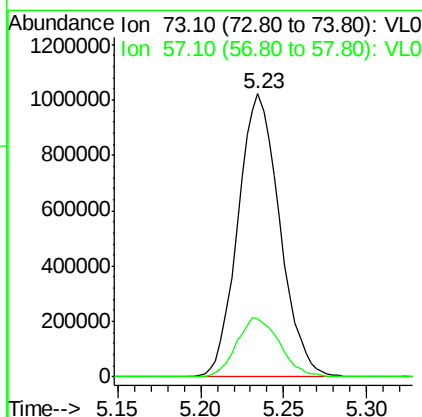
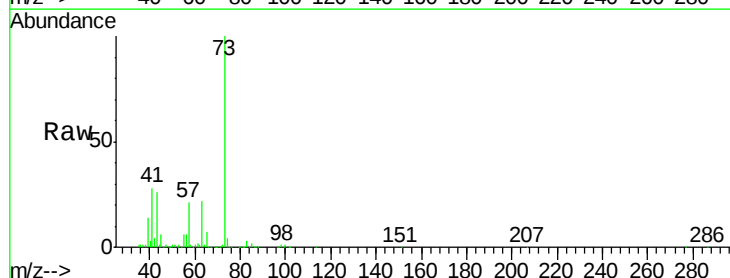
Manual Integrations
APPROVED

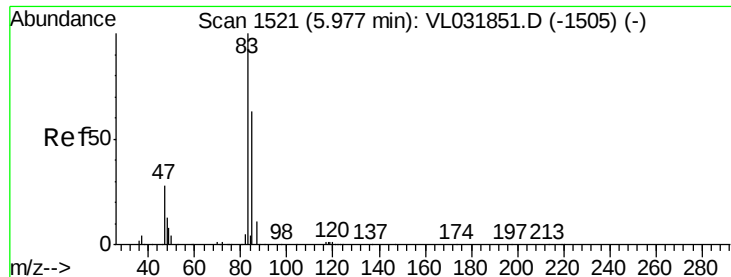
sam
4/23/2018 12:49:47 PM



#28
Methyl tert-Butyl Ether
Concen: 10.25 ppbv
RT: 5.23 min Scan# 1290
Delta R.T. 0.00 min
Lab File: VL031880.D
Acq: 19 Apr 2018 15:44

Tgt Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.6	26.4





#29

Chloroform

Concen: 9.08 ppbv

RT: 5.98 min Scan# 1521

Delta R.T. -0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 83 Resp: 2186912

Ion Ratio Lower Upper

83 100

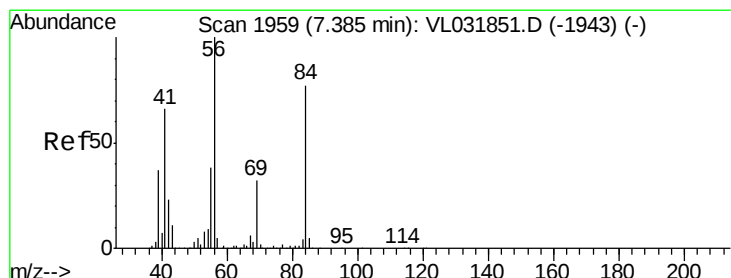
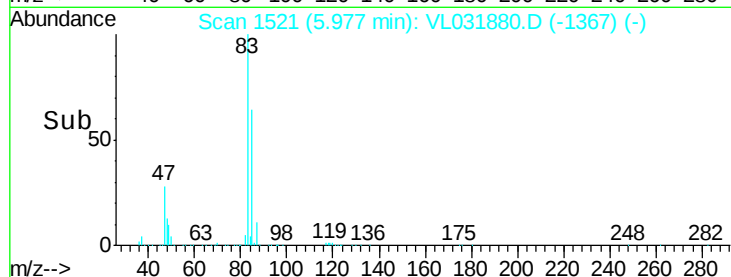
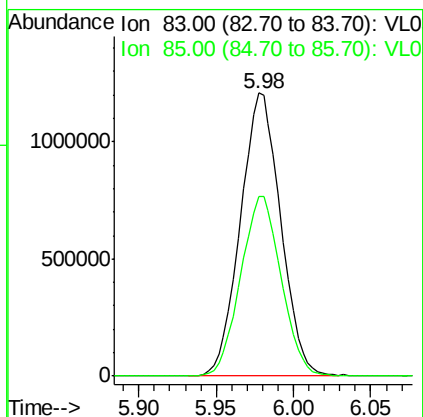
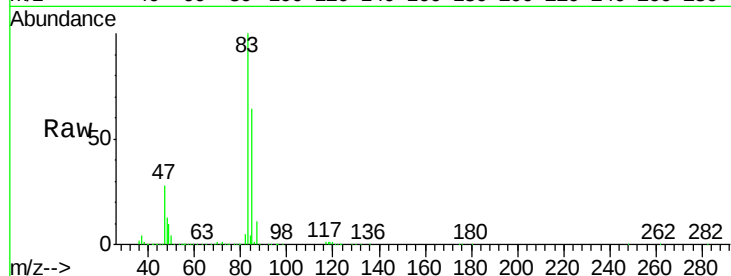
85 63.5 51.4 77.0

Manual Integrations

APPROVED

sam

4/23/2018 12:49:47 PM



#30

Cyclohexane

Concen: 10.66 ppbv

RT: 7.39 min Scan# 1959

Delta R.T. -0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

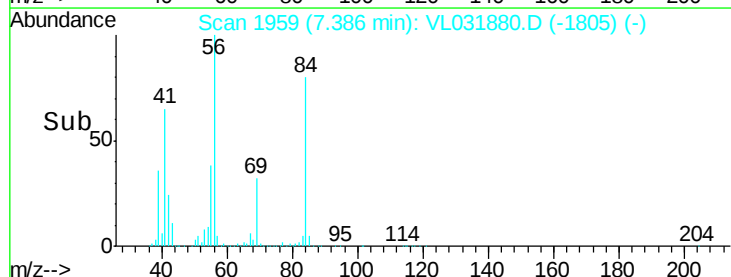
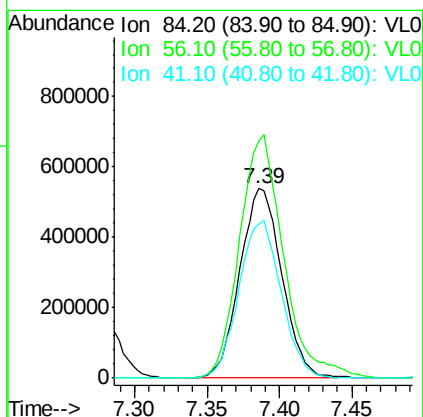
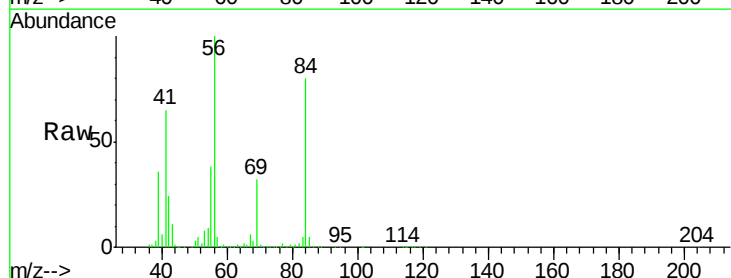
Tgt Ion: 84 Resp: 1081930

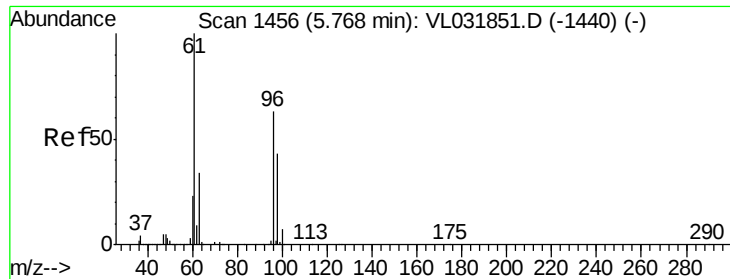
Ion Ratio Lower Upper

84 100

56 135.9 107.7 161.5

41 84.4 68.2 102.2





#31

cis-1,2-Dichloroethene

Concen: 10.13 ppbv

RT: 5.77 min Scan# 1456

Delta R.T. 0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 61 Resp: 1304191

Ion Ratio Lower Upper

61 100

96 64.2 47.6 71.4

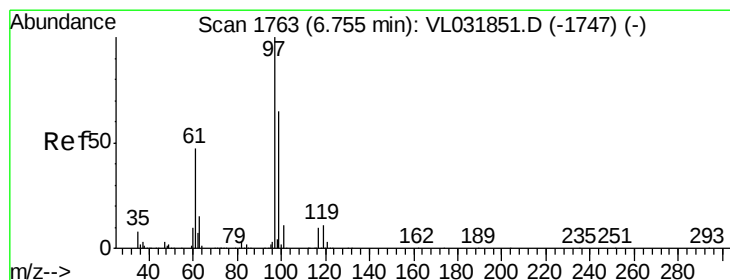
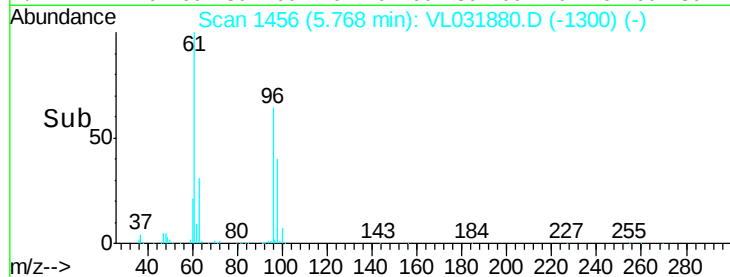
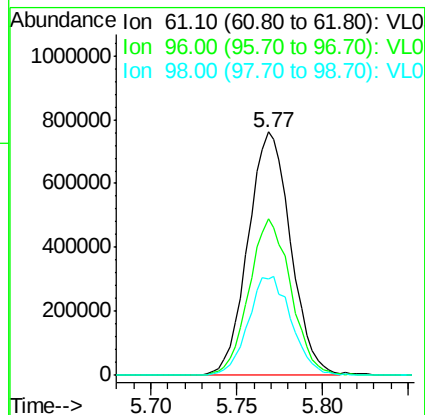
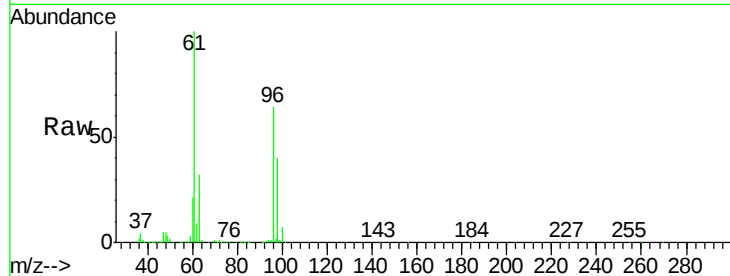
98 39.8 30.3 45.5

Manual Integrations

APPROVED

sam

4/23/2018 12:49:47 PM



#32

1,1,1-Trichloroethane

Concen: 9.20 ppbv

RT: 6.76 min Scan# 1763

Delta R.T. -0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

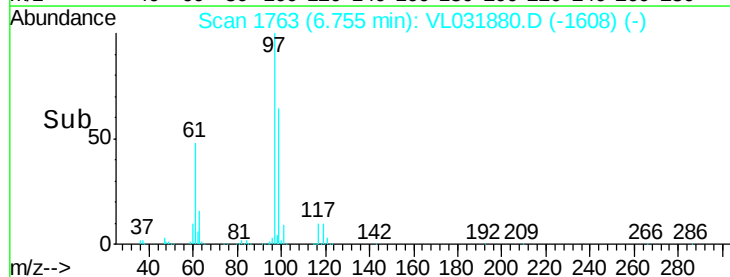
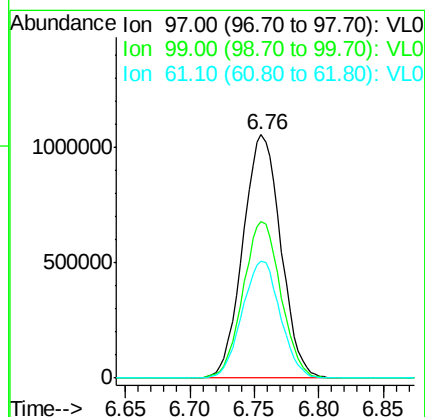
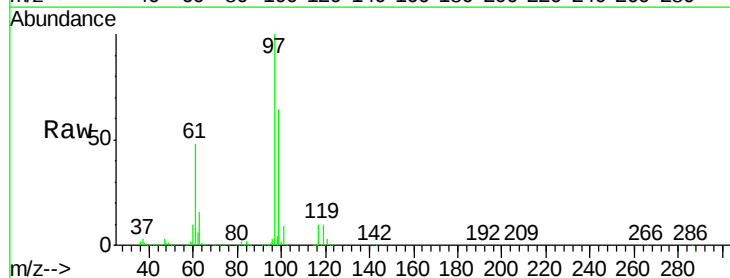
Tgt Ion: 97 Resp: 2159582

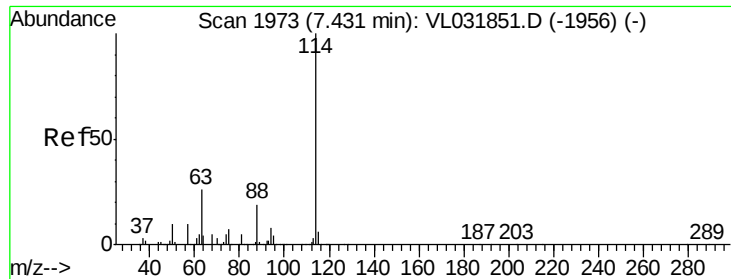
Ion Ratio Lower Upper

97 100

99 64.3 51.5 77.3

61 48.3 40.0 60.0





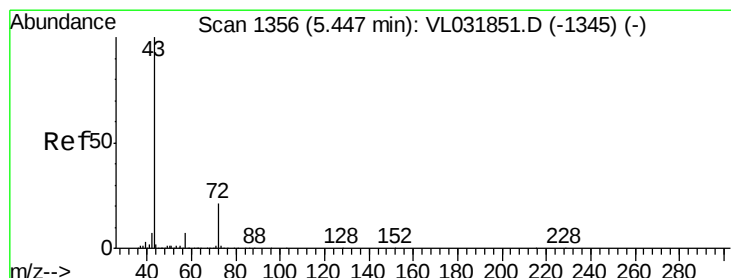
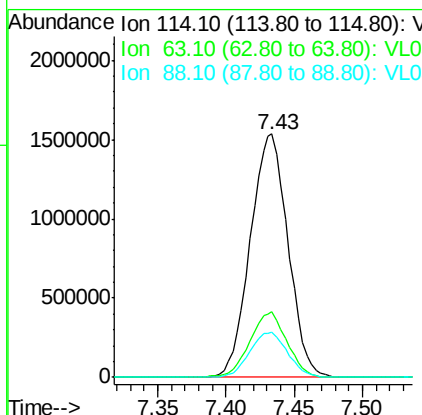
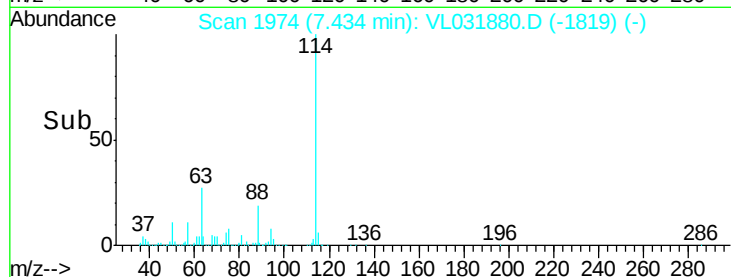
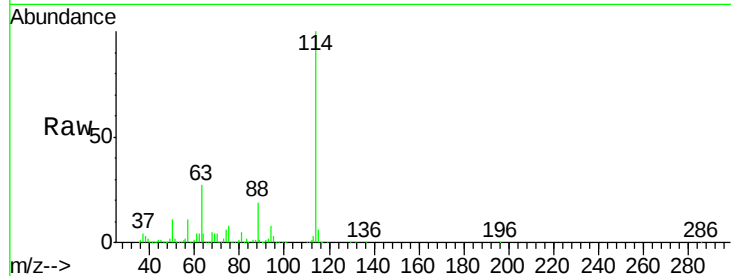
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.43 min Scan# 1974
 Delta R.T. -0.00 min
 Lab File: VL031880.D
 Acq: 19 Apr 2018 15:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.6	21.8	32.6
88	18.7	14.6	22.0

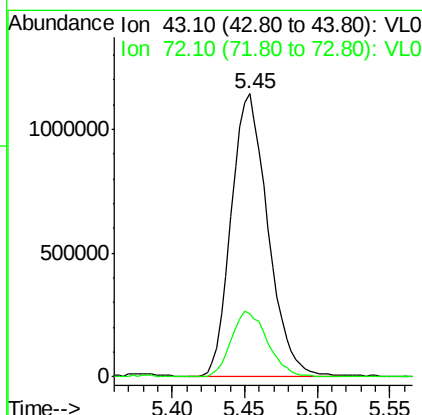
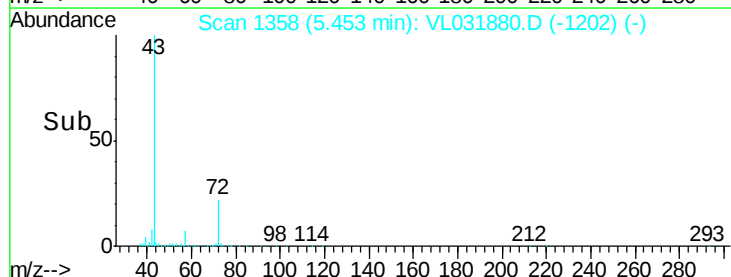
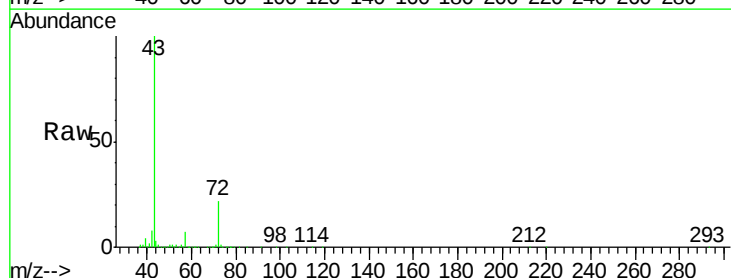
Manual Integrations
 APPROVED

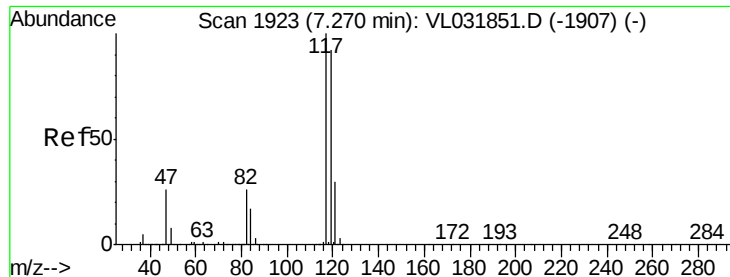
sam
 4/23/2018 12:49:47 PM



#34
 2-Butanone
 Concen: 9.81 ppbv
 RT: 5.45 min Scan# 1358
 Delta R.T. 0.00 min
 Lab File: VL031880.D
 Acq: 19 Apr 2018 15:44

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.2	18.6	27.8





#35

Carbon Tetrachloride

Concen: 8.78 ppbv

RT: 7.27 min Scan# 1924

Delta R.T. -0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

Instrument :

MSVOA_L

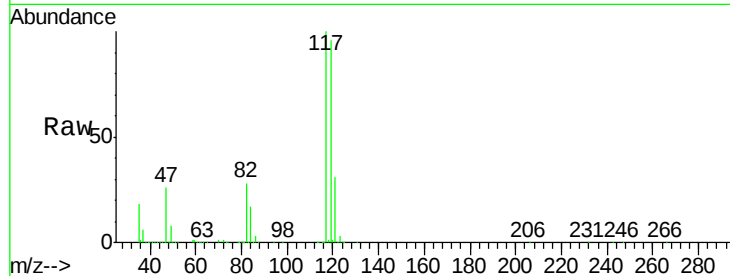
ClientSampleId :

VSTDCCC010

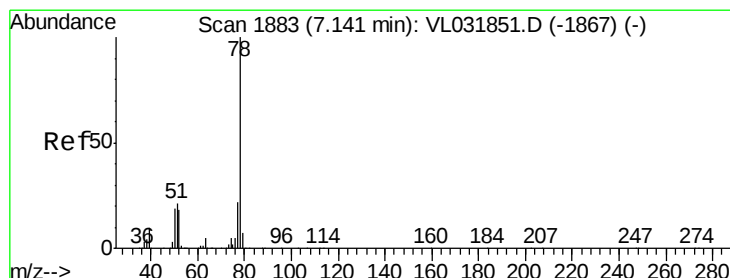
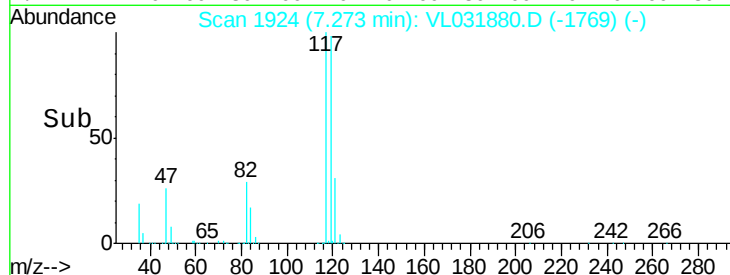
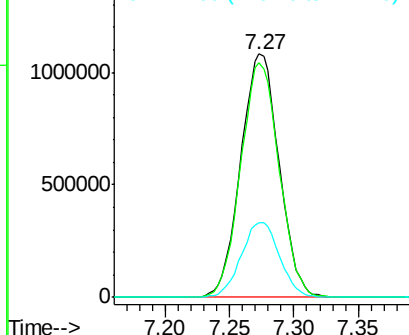
Tot Ion:	117	Resp:	2244569
Ion	Ratio	Lower	Upper
117	100		
119	96.4	76.9	115.3
121	30.8	24.5	36.7

Manual Integrations
APPROVED

sam
4/23/2018 12:49:47 PM



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: 10.06 ppbv

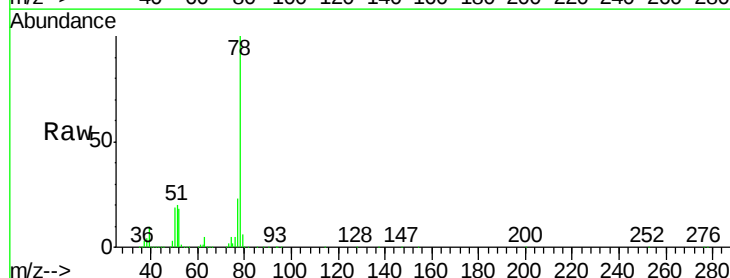
RT: 7.14 min Scan# 1884

Delta R.T. -0.00 min

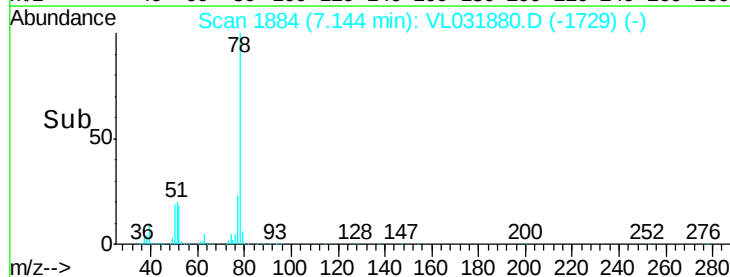
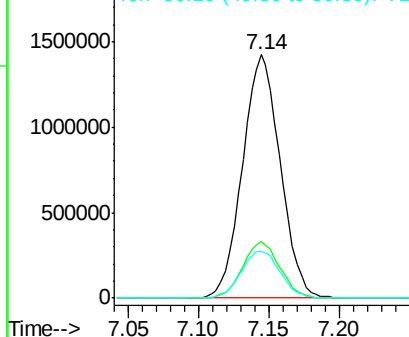
Lab File: VL031880.D

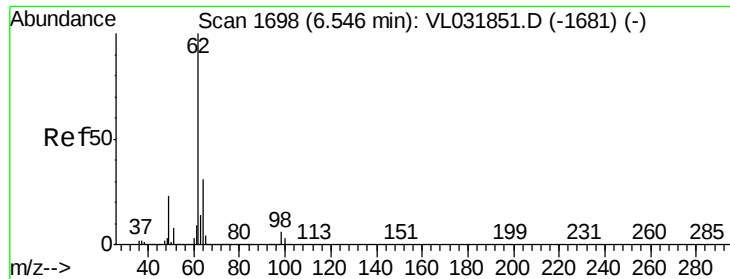
Acq: 19 Apr 2018 15:44

Tgt Ion:	78	Resp:	2663396
Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.2	28.8
50	18.9	16.7	25.1



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





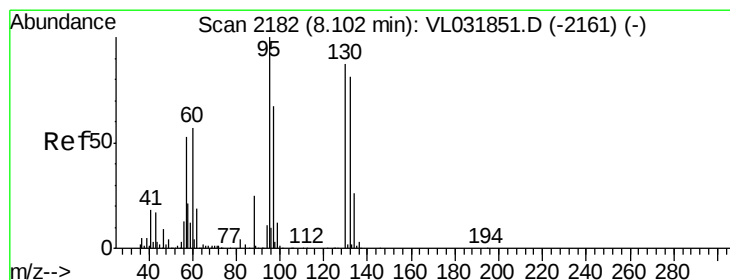
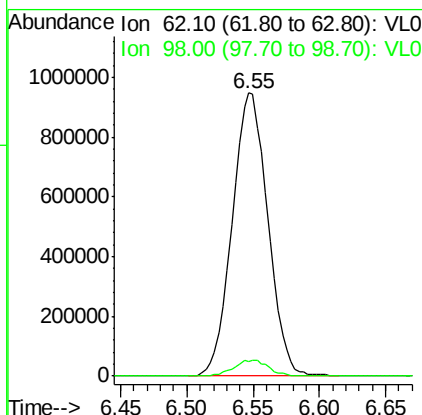
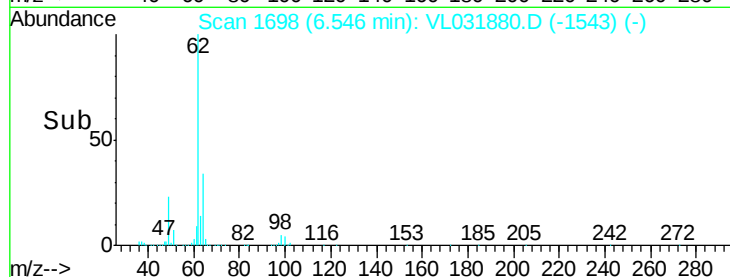
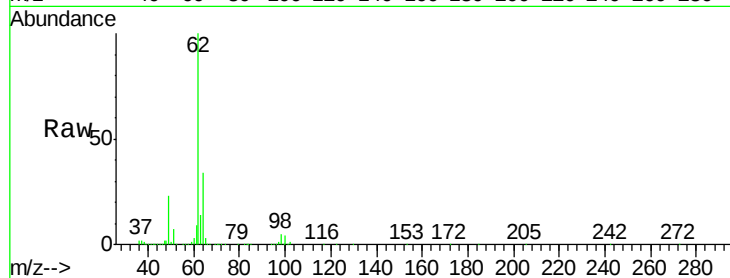
#37
 1,2-Dichloroethane
 Concen: 8.94 ppbv
 RT: 6.55 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VL031880.D
 Acq: 19 Apr 2018 15:44

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010

Tot Ion: 62 Resp: 1761523
 Ion Ratio Lower Upper
 62 100
 98 5.6 4.0 6.0

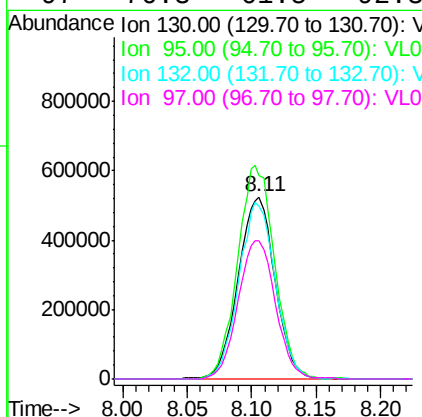
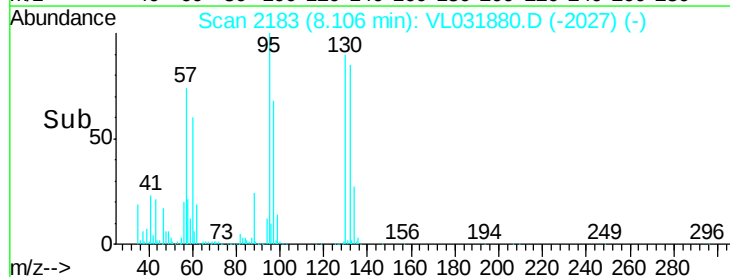
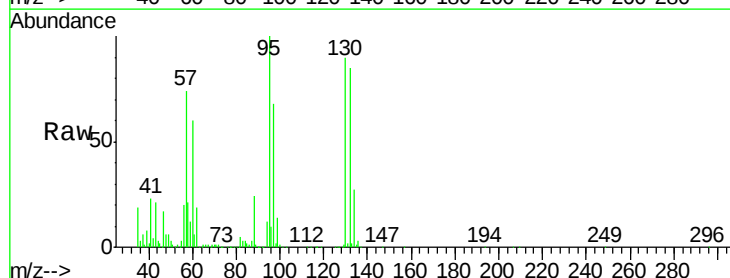
Manual Integrations
 APPROVED

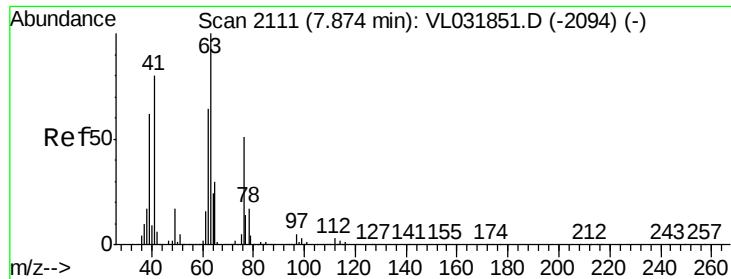
sam
 4/23/2018 12:49:47 PM



#38
 Trichloroethene
 Concen: 9.61 ppbv
 RT: 8.11 min Scan# 2183
 Delta R.T. 0.00 min
 Lab File: VL031880.D
 Acq: 19 Apr 2018 15:44

Tgt Ion: 130 Resp: 1032957
 Ion Ratio Lower Upper
 130 100
 95 111.7 96.6 144.8
 132 94.7 79.1 118.7
 97 76.3 61.5 92.3





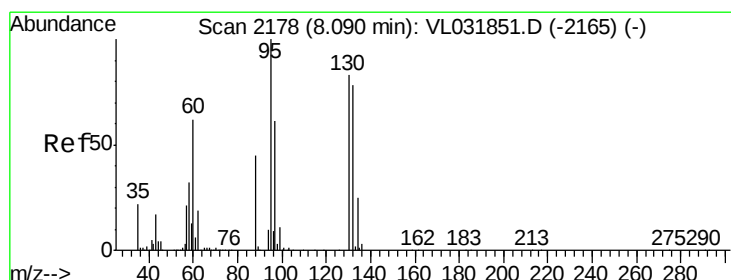
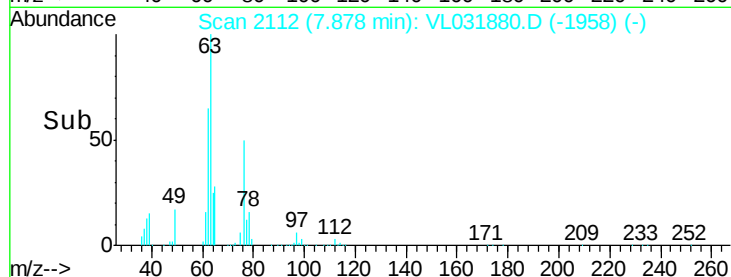
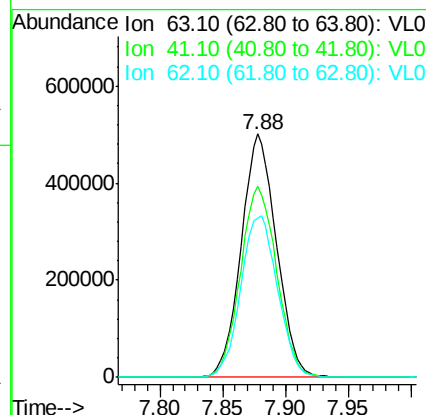
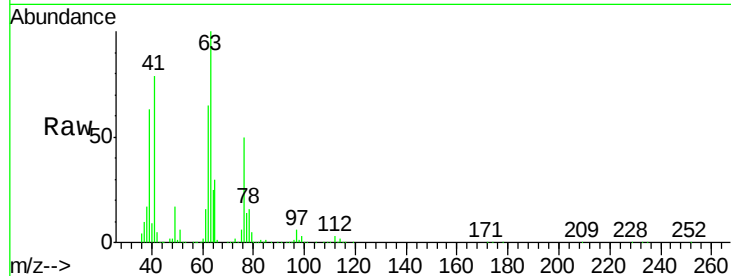
#39
 1,2-Dichloropropane
 Concen: 9.96 ppbv
 RT: 7.88 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VL031880.D
 Acq: 19 Apr 2018 15:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	78.6	65.8	98.6
62	65.2	55.0	82.6

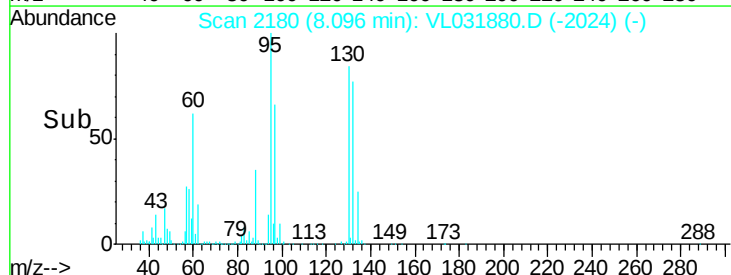
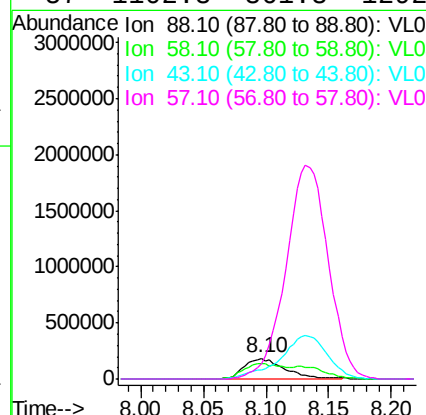
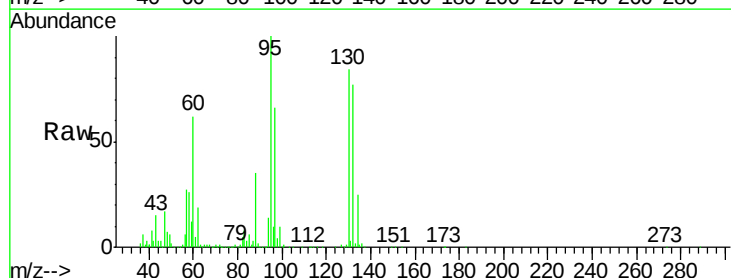
Manual Integrations
 APPROVED

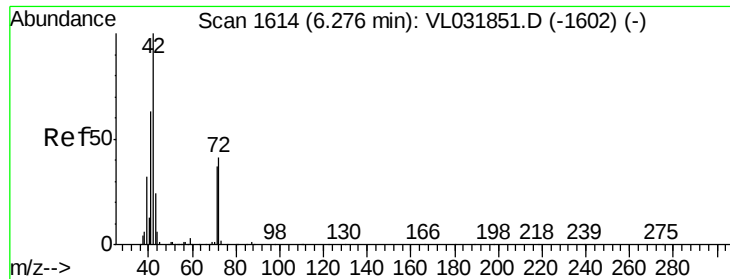
sam
 4/23/2018 12:49:47 PM



#40
 1,4-Dioxane
 Concen: 10.23 ppbv
 RT: 8.10 min Scan# 2180
 Delta R.T. 0.00 min
 Lab File: VL031880.D
 Acq: 19 Apr 2018 15:44

Tgt Ion	Ratio	Lower	Upper
88	100		
58	124.6	98.5	147.7
43	250.6	194.3	291.5
57	1102.8	861.8	1292.6





#41

Tetrahydrofuran

Concen: 10.77 ppbv

RT: 6.28 min Scan# 1615

Delta R.T. -0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

Instrument :

MSVOA_L

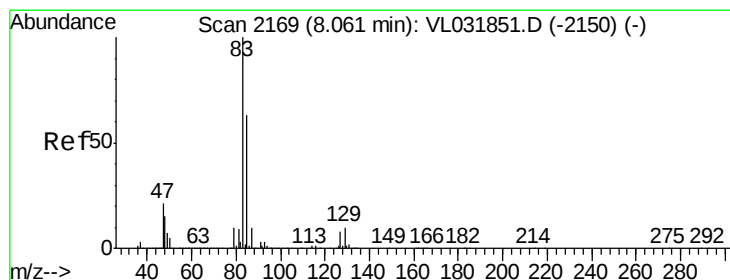
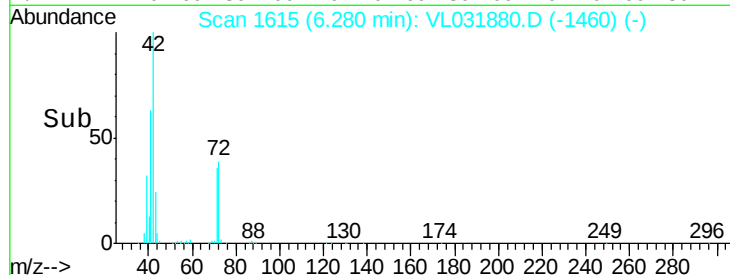
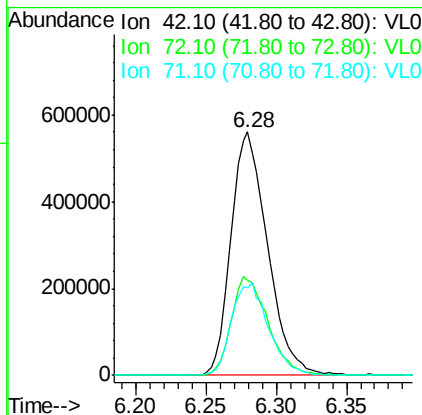
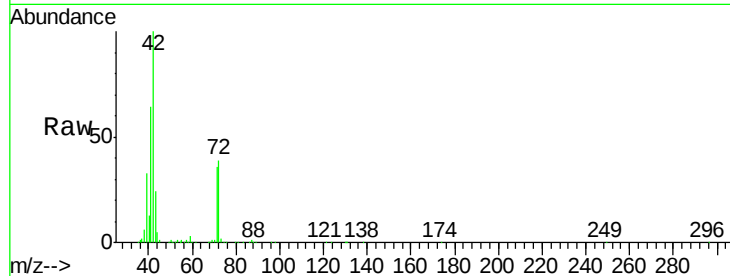
ClientSampleId :

VSTDCCC010

Tot Ion:	42	Resp:	1018015
Ion	Ratio	Lower	Upper
42	100		
72	40.6	33.2	49.8
71	38.7	31.5	47.3

Manual Integrations
APPROVED

sam
4/23/2018 12:49:47 PM



#42

Bromodichloromethane

Concen: 9.66 ppbv

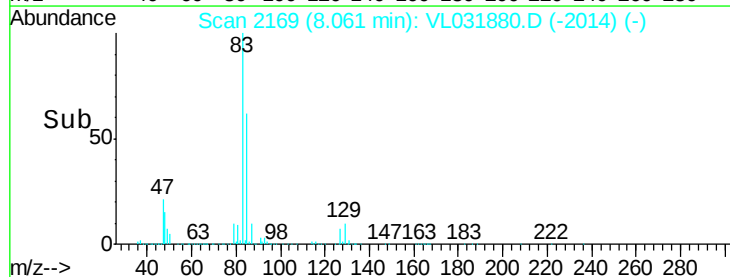
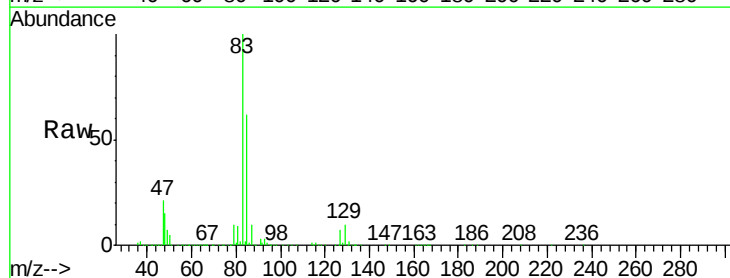
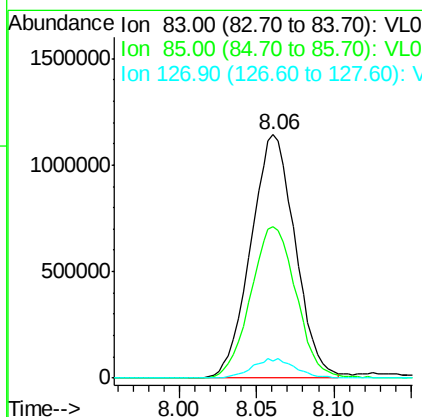
RT: 8.06 min Scan# 2169

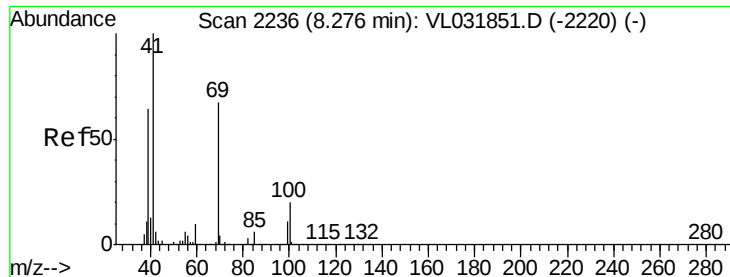
Delta R.T. -0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

Tgt Ion:	83	Resp:	2277092
Ion	Ratio	Lower	Upper
83	100		
85	62.0	50.5	75.7
127	7.2	6.0	9.0





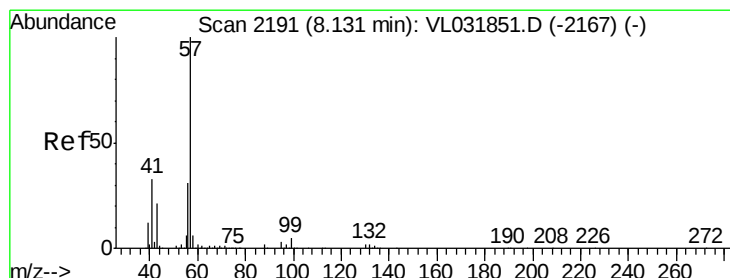
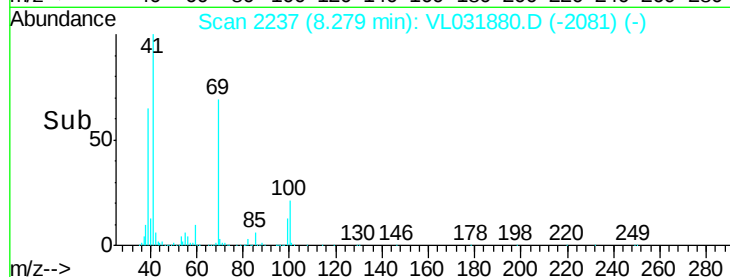
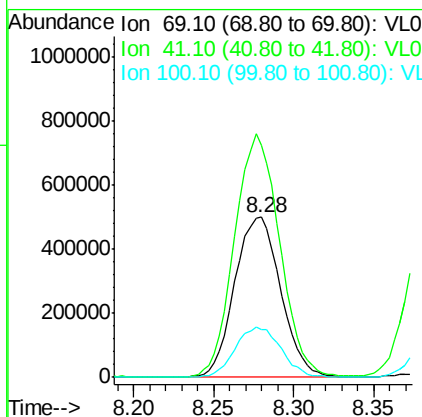
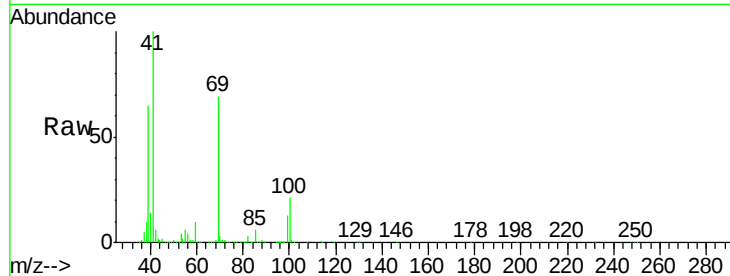
#43
Methvl Methacrilate
Concen: 10.54 ppbv
RT: 8.28 min Scan# 2237
Delta R.T. 0.00 min
Lab File: VL031880.D
Acq: 19 Apr 2018 15:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
69	100		
41	149.4	117.8	176.8
100	31.6	24.6	37.0

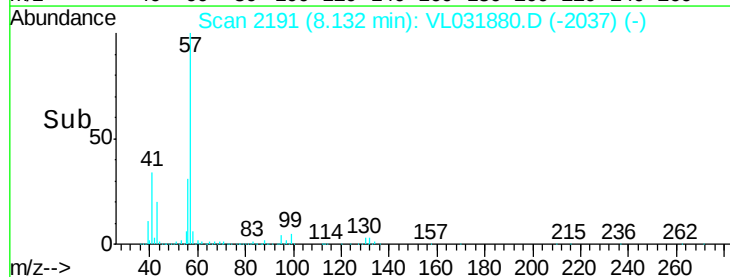
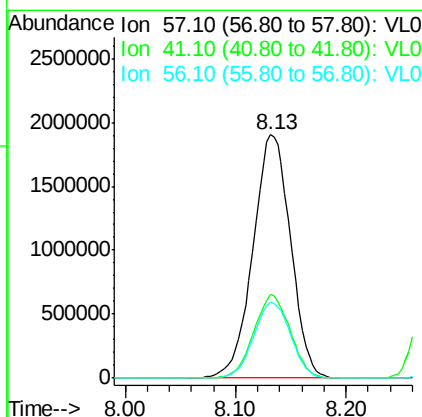
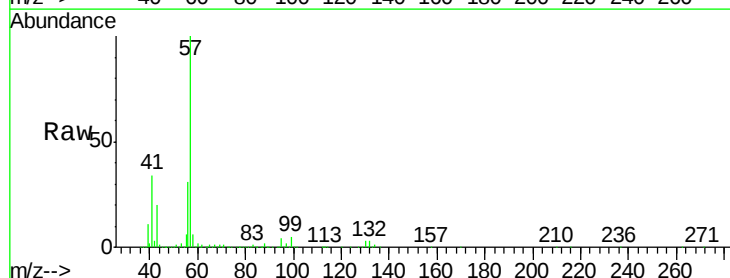
Manual Integrations
APPROVED

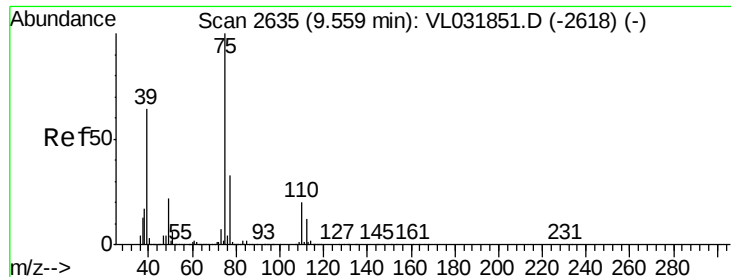
sam
4/23/2018 12:49:47 PM



#44
2,2,4-Trimethylpentane
Concen: 9.87 ppbv
RT: 8.13 min Scan# 2191
Delta R.T. -0.00 min
Lab File: VL031880.D
Acq: 19 Apr 2018 15:44

Tgt Ion	Ratio	Lower	Upper
57	100		
41	33.2	27.0	40.6
56	30.7	24.1	36.1





#45

t-1,3-Dichloropropene

Concen: 11.90 ppbv

RT: 9.56 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 75 Resp: 1437554

Ion Ratio Lower Upper

75 100

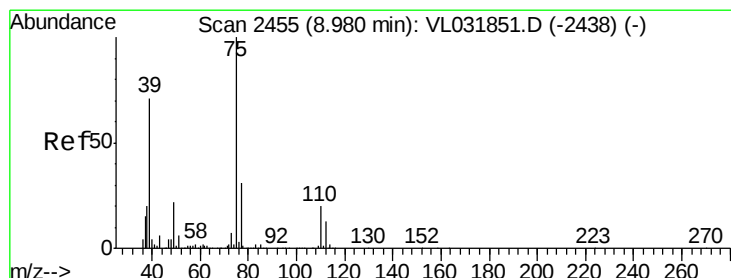
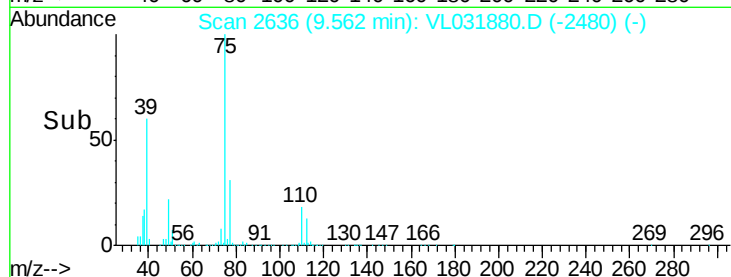
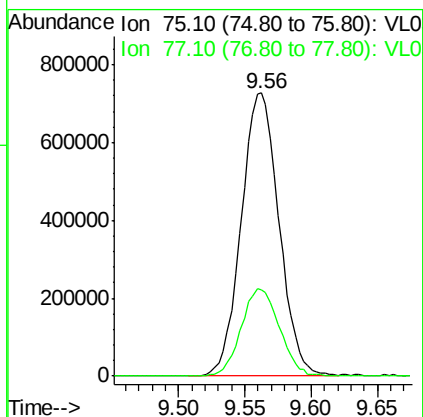
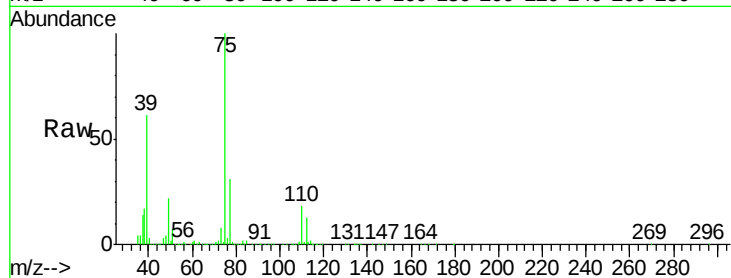
77 30.7 25.1 37.7

Manual Integrations

APPROVED

sam

4/23/2018 12:49:47 PM



#46

cis-1,3-Dichloropropene

Concen: 11.05 ppbv

RT: 8.98 min Scan# 2455

Delta R.T. -0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

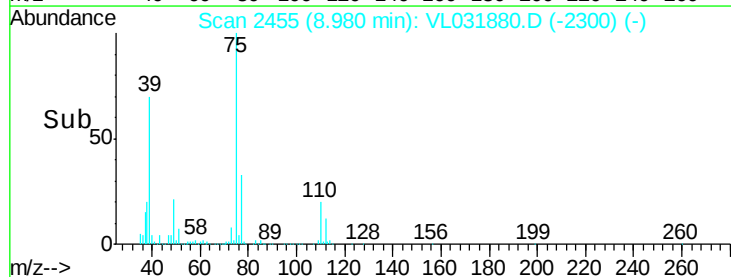
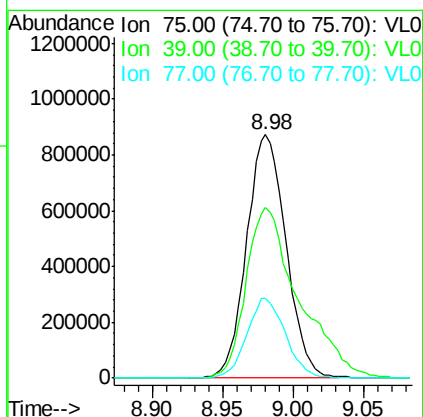
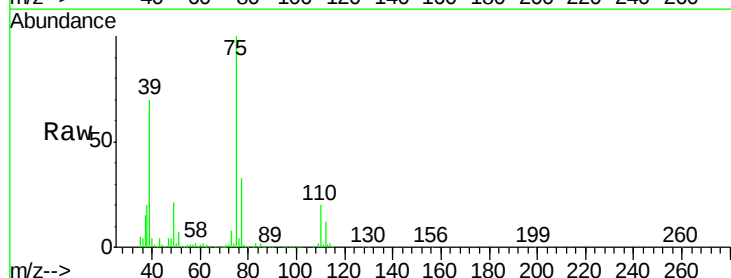
Tgt Ion: 75 Resp: 1707018

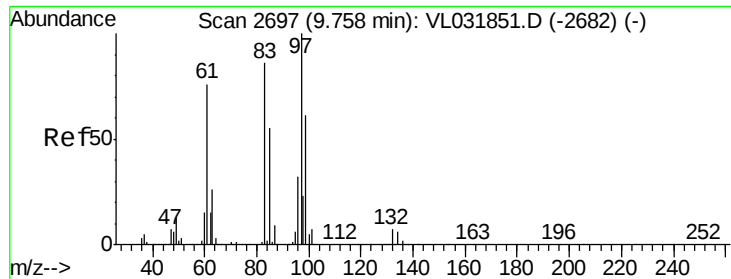
Ion Ratio Lower Upper

75 100

39 70.2 58.6 87.8

77 32.8 26.8 40.2





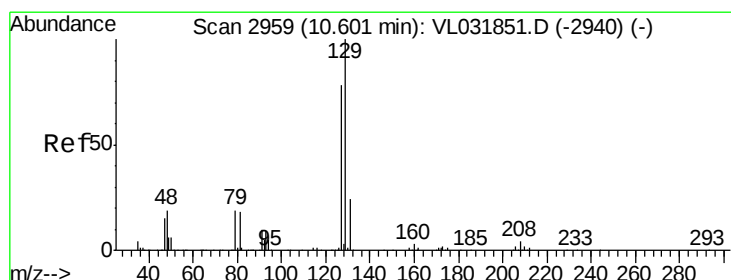
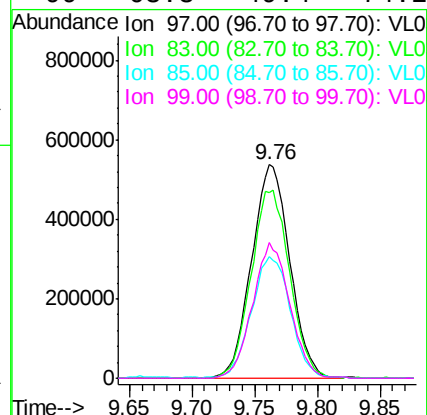
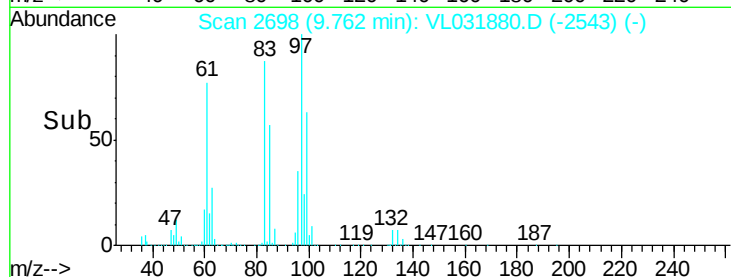
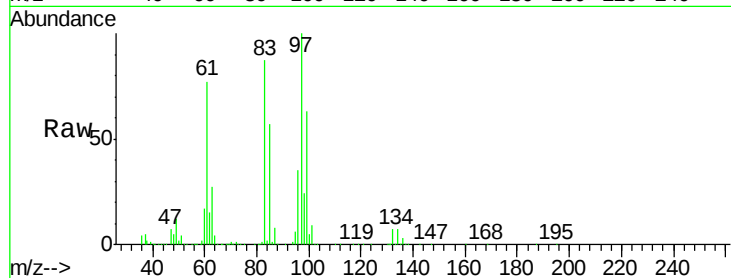
#47
 1,1,2-Trichloroethane
 Concen: 9.76 ppbv
 RT: 9.76 min Scan# 2698
 Delta R.T. -0.00 min
 Lab File: VL031880.D
 Acq: 19 Apr 2018 15:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	87.0	69.1	103.7	
85	56.8	43.7	65.5	
99	63.3	49.4	74.2	

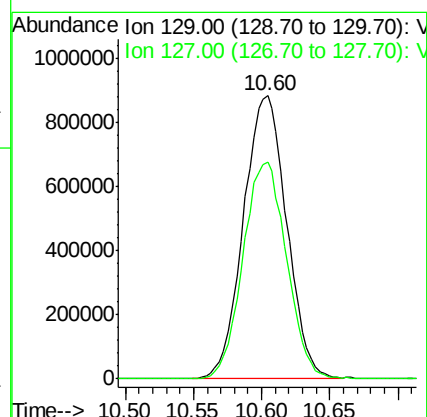
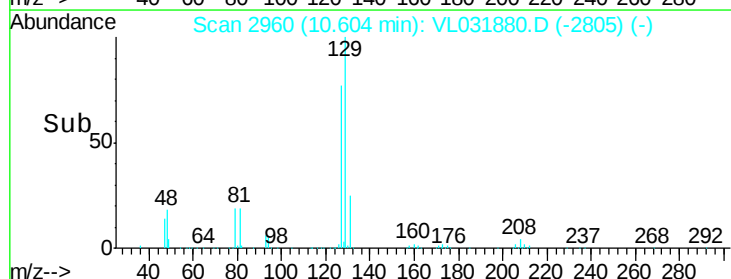
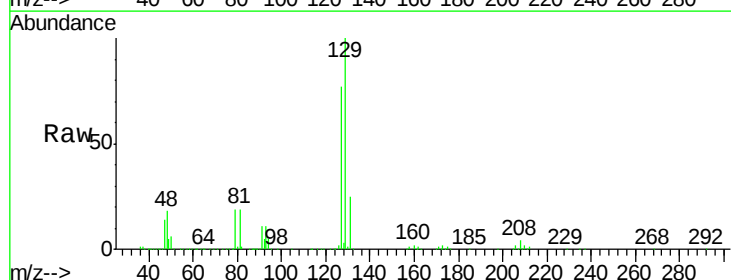
Manual Integrations
 APPROVED

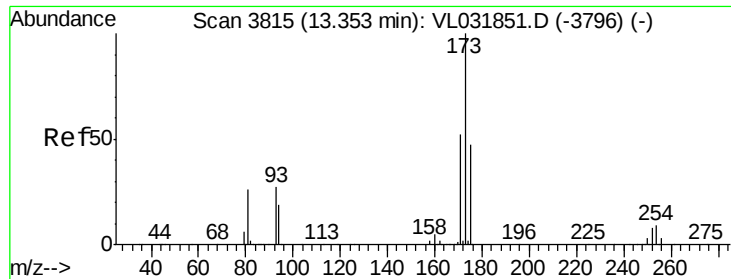
sam
 4/23/2018 12:49:47 PM



#48
 Dibromochloromethane
 Concen: 10.27 ppbv
 RT: 10.60 min Scan# 2960
 Delta R.T. -0.00 min
 Lab File: VL031880.D
 Acq: 19 Apr 2018 15:44

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	77.4	39.1	117.5	





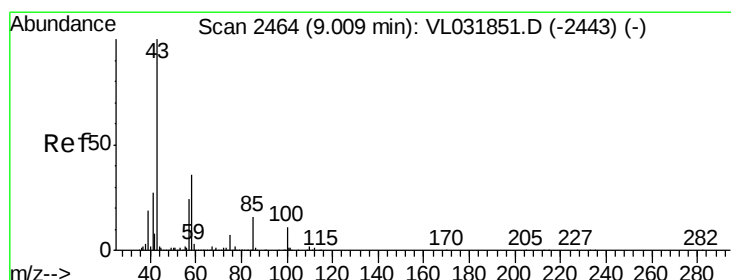
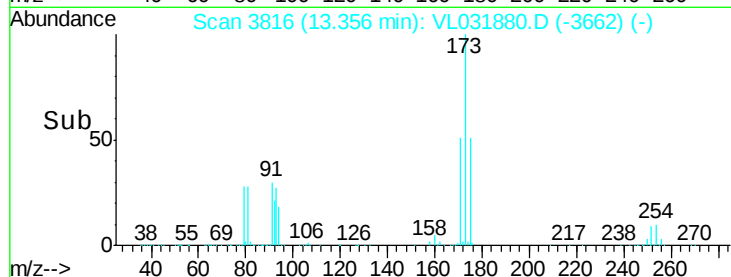
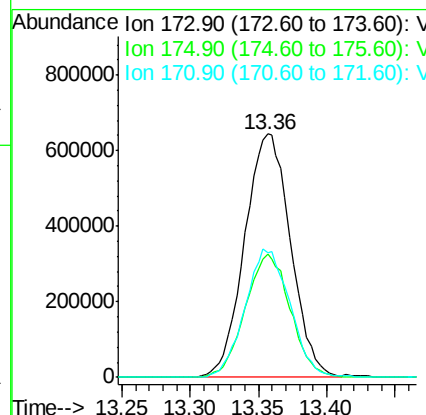
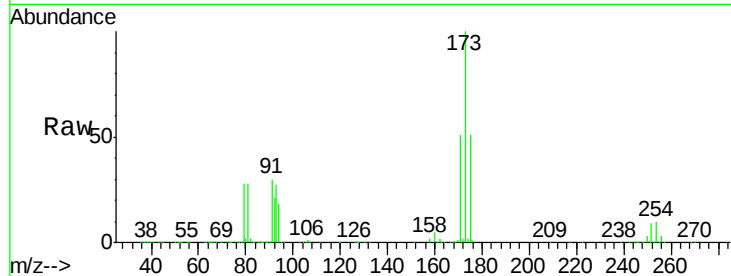
#49
Bromoform
Concen: 10.31 ppbv
RT: 13.36 min Scan# 3816
Delta R.T. -0.00 min
Lab File: VL031880.D
Acq: 19 Apr 2018 15:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:173 Resp: 1500472
Ion Ratio Lower Upper
173 100
175 49.9 39.0 58.6
171 51.9 41.4 62.0

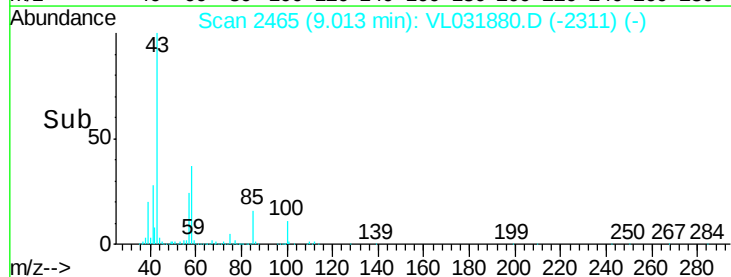
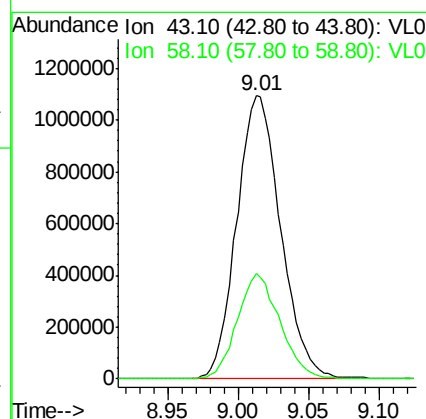
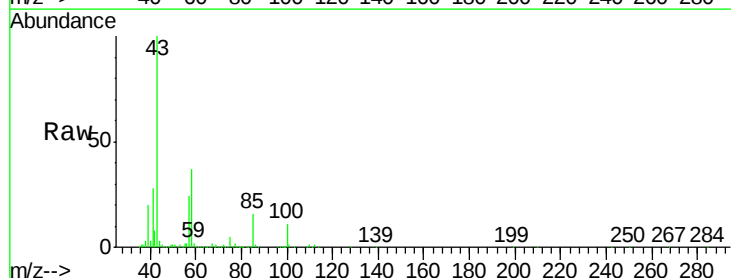
Manual Integrations
APPROVED

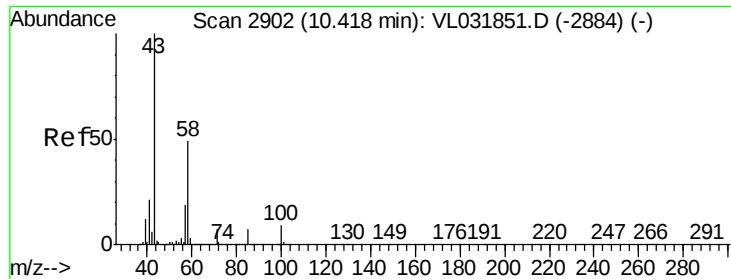
sam
4/23/2018 12:49:47 PM



#50
4-Methyl-2-Pentanone
Concen: 10.15 ppbv
RT: 9.01 min Scan# 2465
Delta R.T. -0.00 min
Lab File: VL031880.D
Acq: 19 Apr 2018 15:44

Tgt Ion: 43 Resp: 2372074
Ion Ratio Lower Upper
43 100
58 36.4 28.6 43.0





#51

2-Hexanone

Concen: 11.23 ppbv

RT: 10.42 min Scan# 2902

Delta R.T. -0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 2294214

Ion Ratio Lower Upper

43 100

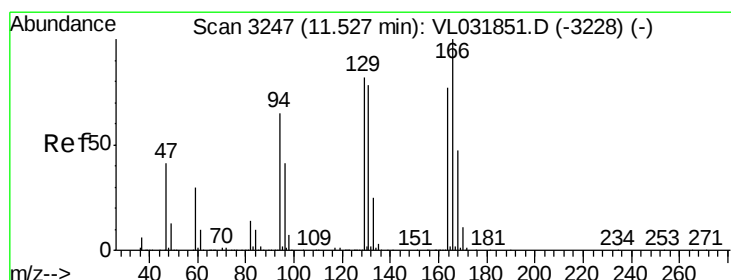
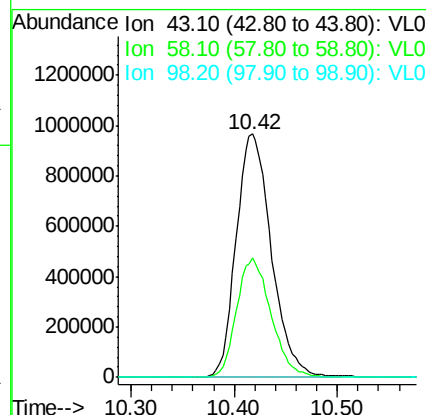
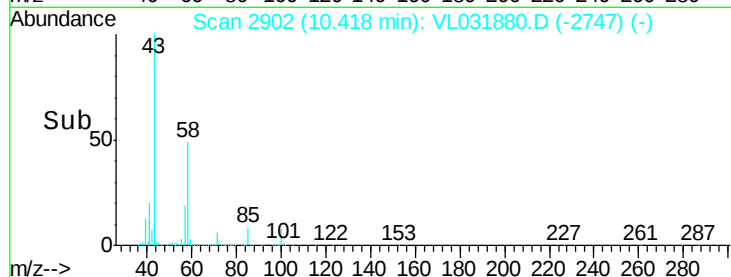
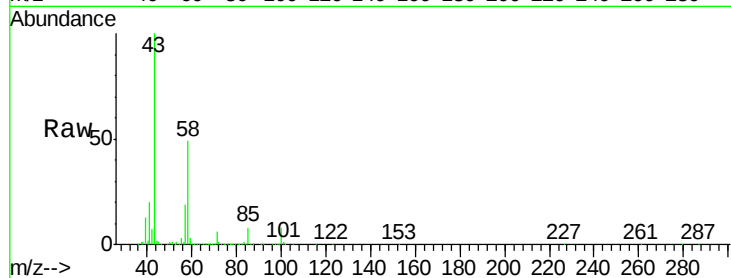
58 48.1 38.5 57.7

98 0.4 0.2 0.4#

Manual Integrations
APPROVED

sam

4/23/2018 12:49:47 PM



#52

Tetrachloroethene

Concen: 9.64 ppbv

RT: 11.52 min Scan# 3246

Delta R.T. -0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

Tgt Ion: 164 Resp: 994920

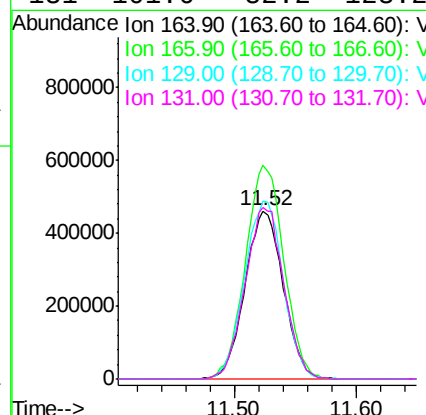
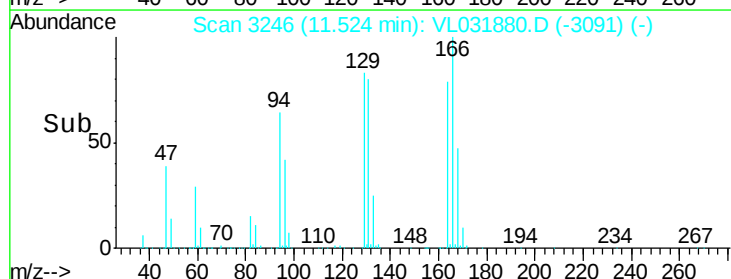
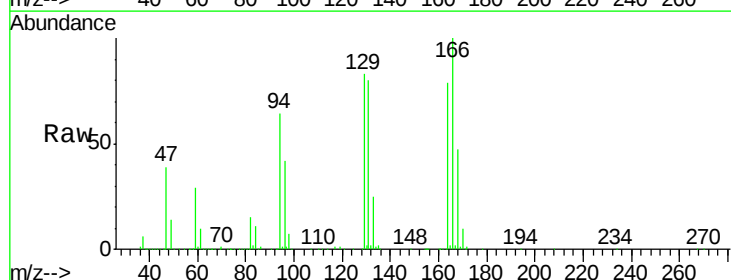
Ion Ratio Lower Upper

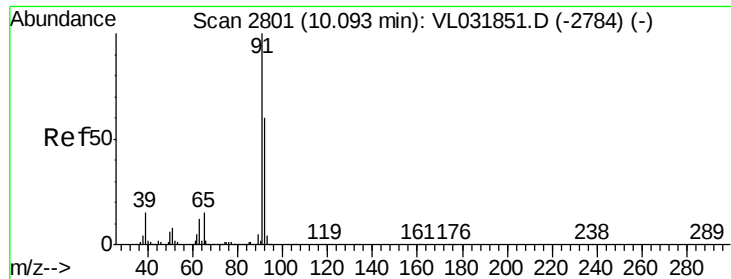
164 100

166 126.9 98.2 147.4

129 105.4 86.5 129.7

131 101.6 82.2 123.2





#53

Toluene

Concen: 10.85 ppbv

RT: 10.10 min Scan# 2802

Delta R.T. 0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 3203807

Ion Ratio Lower Upper

91 100

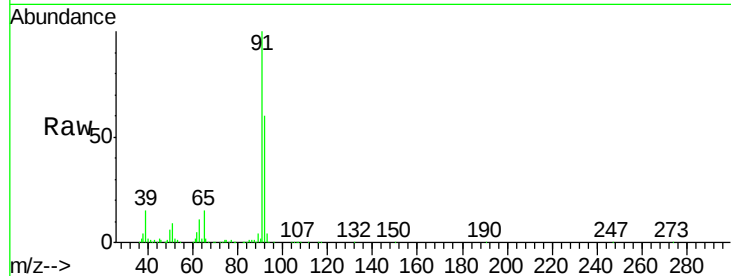
92 59.3 47.4 71.2

Manual Integrations

APPROVED

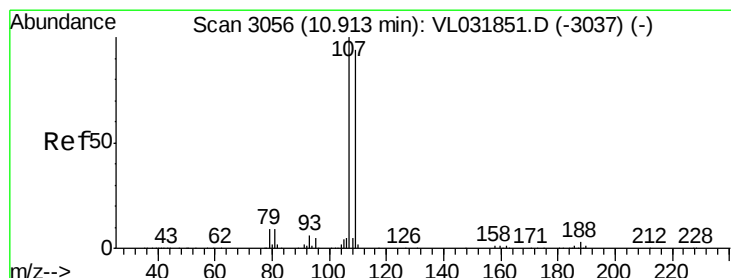
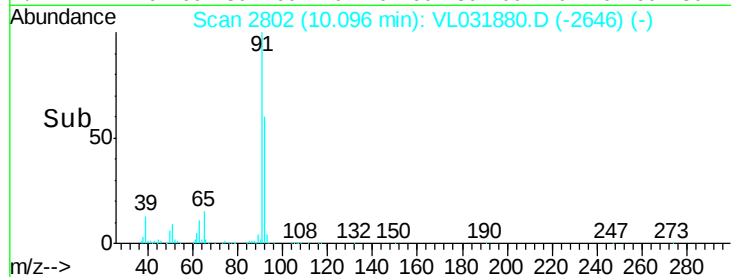
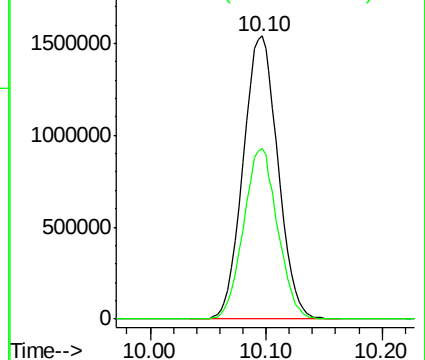
sam

4/23/2018 12:49:47 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 10.11 ppbv

RT: 10.91 min Scan# 3056

Delta R.T. 0.00 min

Lab File: VL031880.D

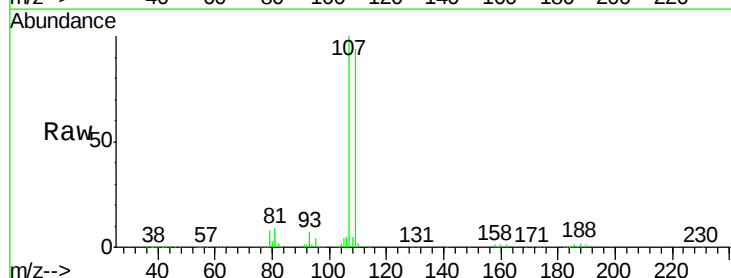
Acq: 19 Apr 2018 15:44

Tgt Ion: 107 Resp: 1717397

Ion Ratio Lower Upper

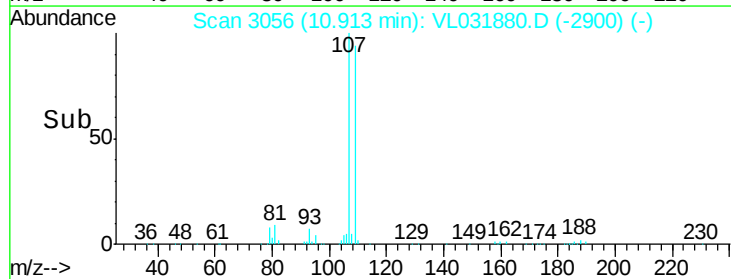
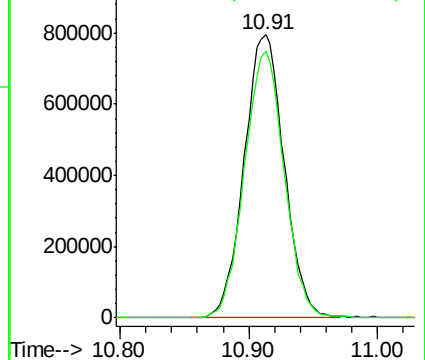
107 100

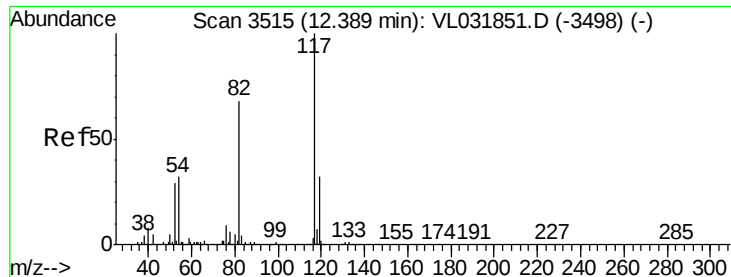
109 94.4 74.6 112.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





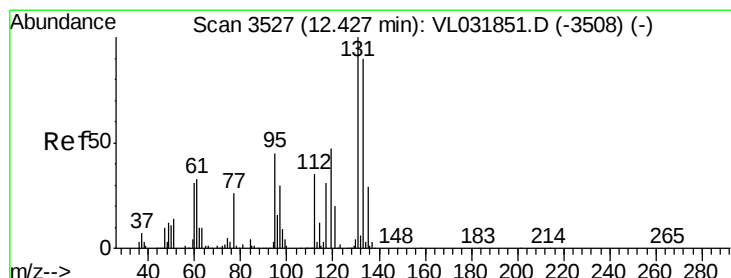
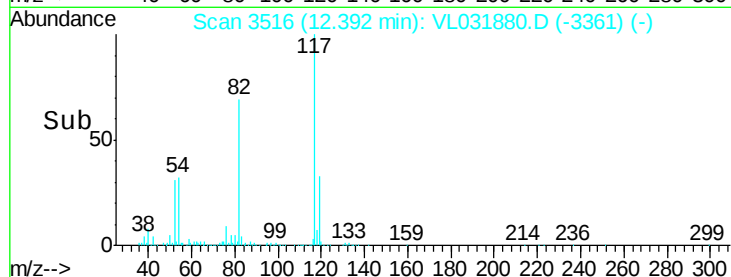
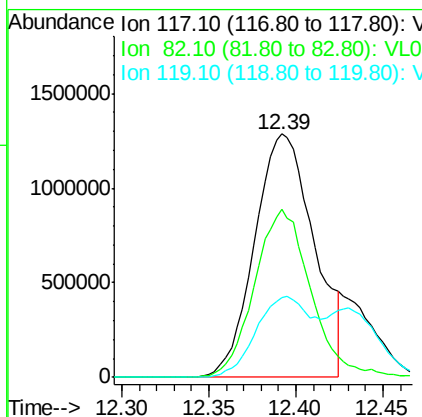
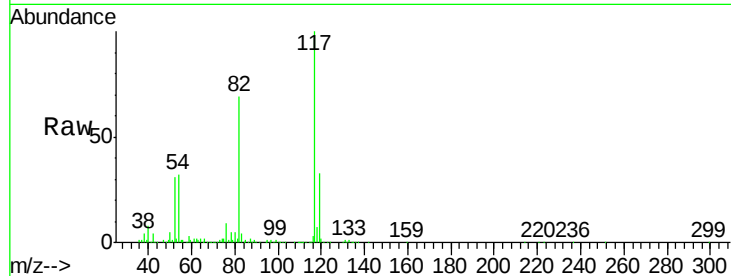
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.39 min Scan# 3516
Delta R.T. -0.00 min
Lab File: VL031880.D
Acq: 19 Apr 2018 15:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
117	100		
82	65.8	54.6	81.8
119	55.8	26.0	39.0

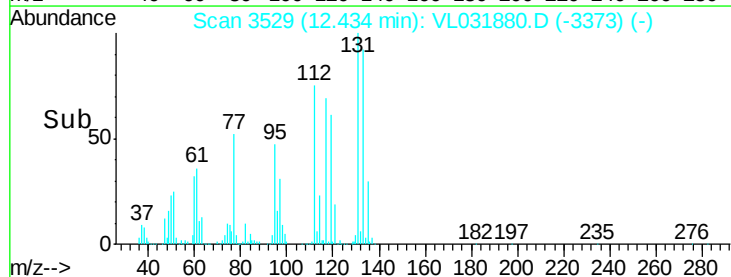
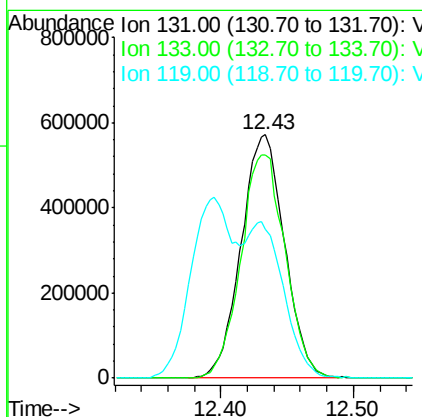
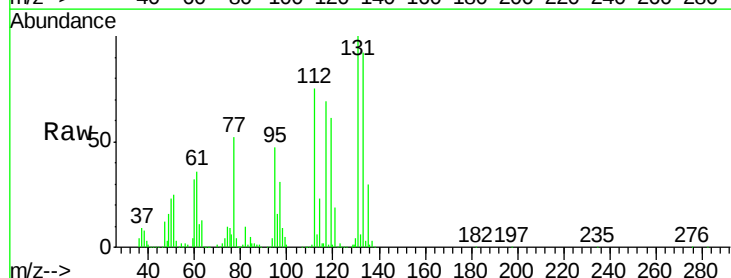
Manual Integrations
APPROVED

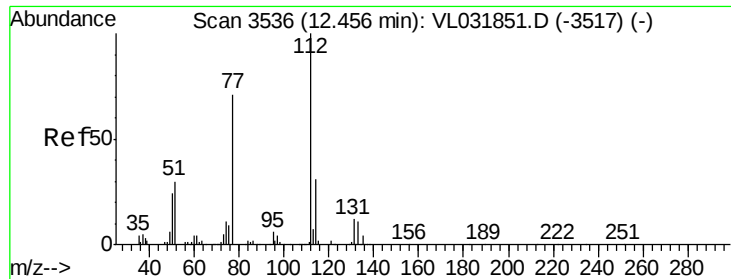
sam
4/23/2018 12:49:47 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 9.02 ppbv
RT: 12.43 min Scan# 3529
Delta R.T. 0.00 min
Lab File: VL031880.D
Acq: 19 Apr 2018 15:44

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.3	76.1	114.1
119	131.4	106.3	159.5





#57

Chlorobenzene

Concen: 9.10 ppbv

RT: 12.45 min Scan# 3535

Delta R.T. -0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 112 Resp: 2361629

Ion Ratio Lower Upper

112 100

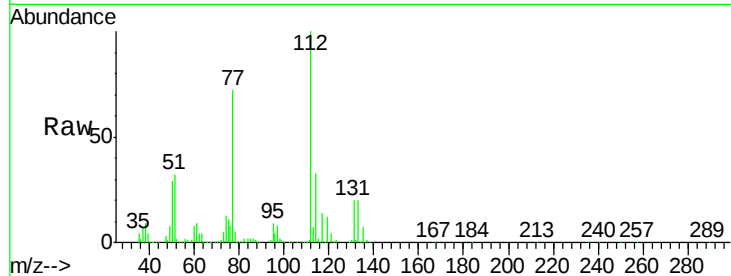
77 71.9 57.0 85.6

114 33.4 28.5 34.9

Manual Integrations
APPROVED

sam

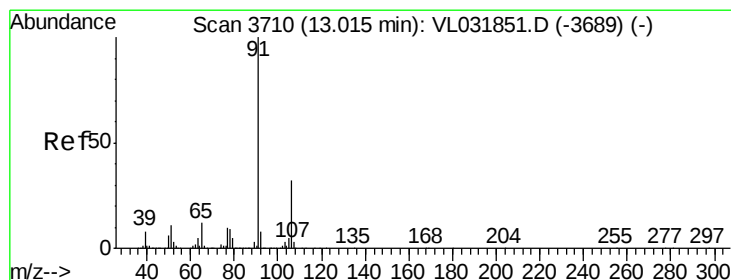
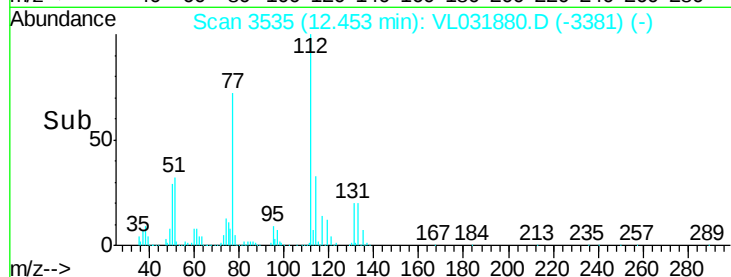
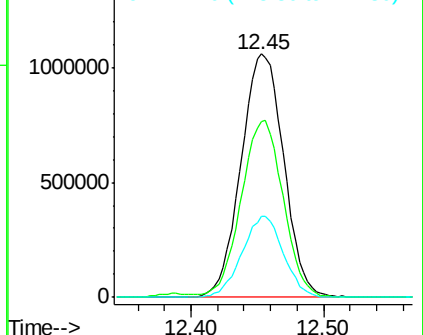
4/23/2018 12:49:47 PM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.24 ppbv

RT: 13.02 min Scan# 3710

Delta R.T. -0.00 min

Lab File: VL031880.D

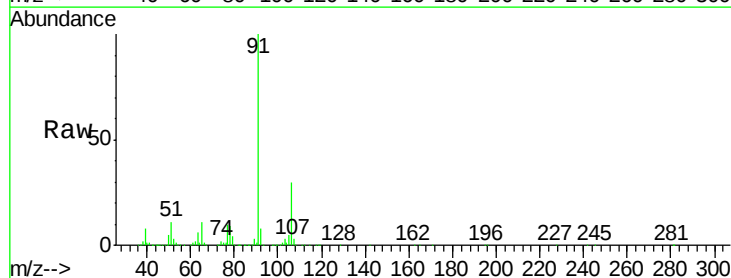
Acq: 19 Apr 2018 15:44

Tgt Ion: 91 Resp: 4350208

Ion Ratio Lower Upper

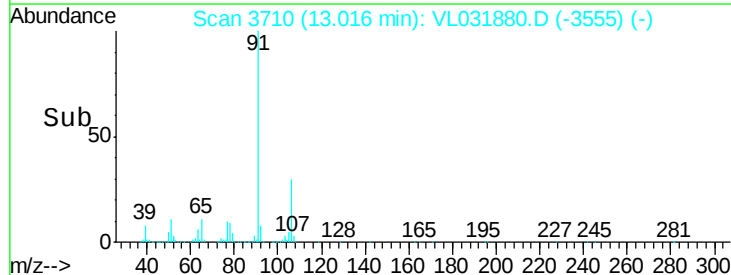
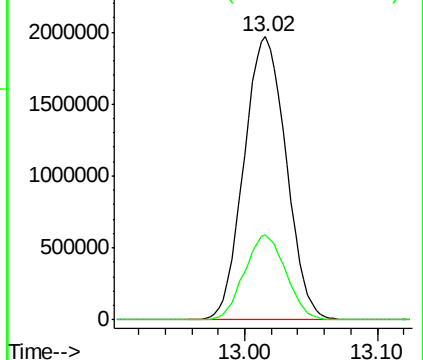
91 100

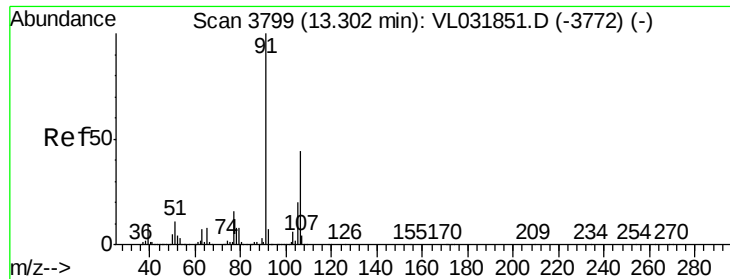
106 30.1 23.8 35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





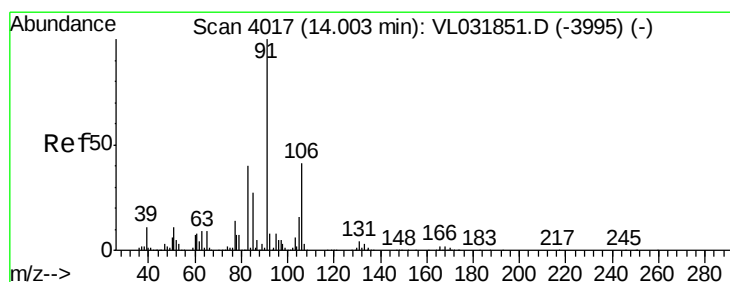
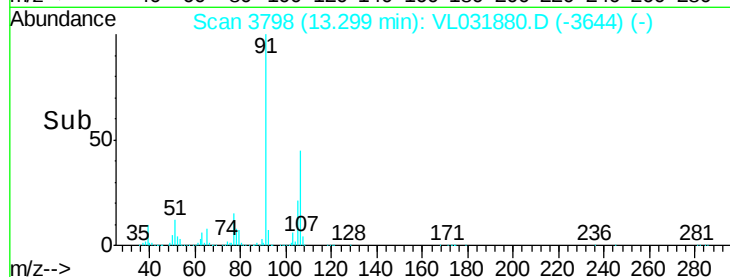
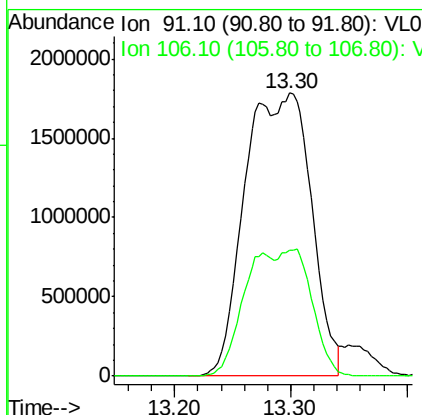
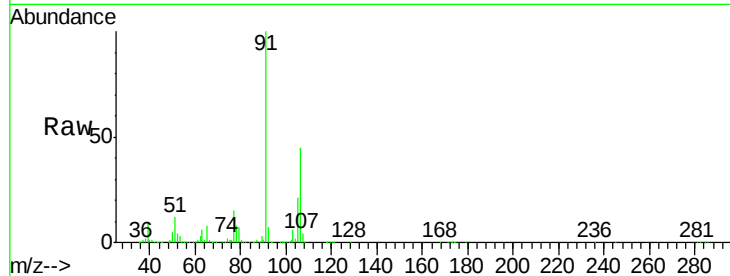
#59
m/p-Xylene
Concen: 19.17 ppbv m
RT: 13.30 min Scan# 3798
Delta R.T. -0.00 min
Lab File: VL031880.D
Acq: 19 Apr 2018 15:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 7074913
Ion Ratio Lower Upper
91 100
106 44.7 35.5 53.3

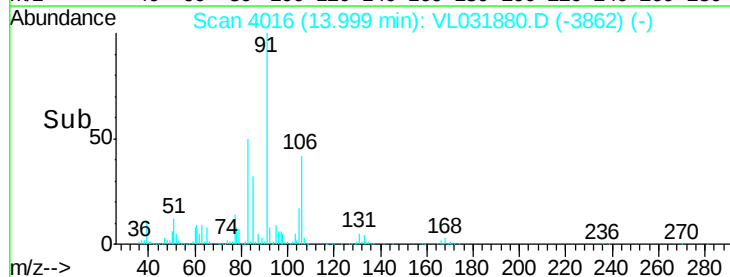
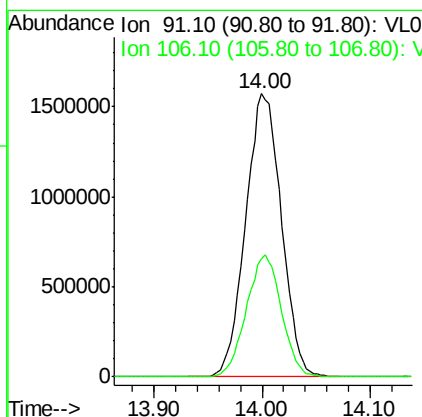
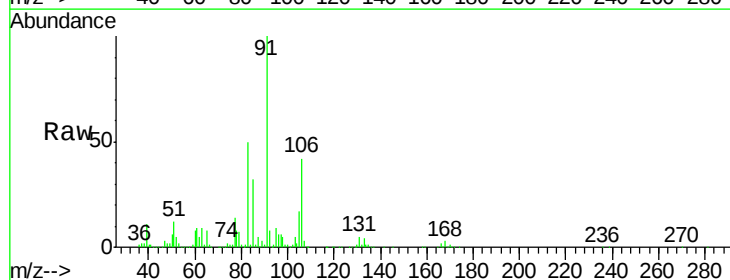
Manual Integrations
APPROVED

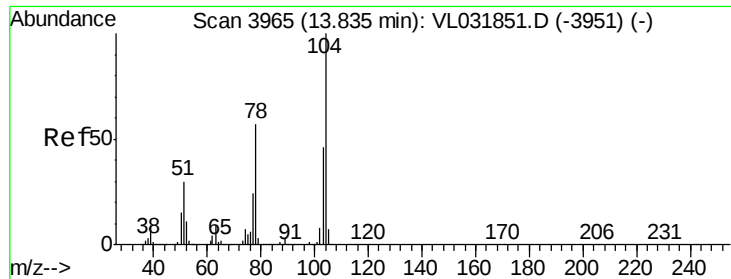
sam
4/23/2018 12:49:47 PM



#60
o-Xylene
Concen: 9.82 ppbv
RT: 14.00 min Scan# 4016
Delta R.T. -0.00 min
Lab File: VL031880.D
Acq: 19 Apr 2018 15:44

Tgt Ion: 91 Resp: 3621818
Ion Ratio Lower Upper
91 100
106 42.2 21.3 63.9





#61

Stvrene

Concen: 12.34 ppbv

RT: 13.84 min Scan# 3965

Delta R.T. -0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

Instrument :

MSVOA_L

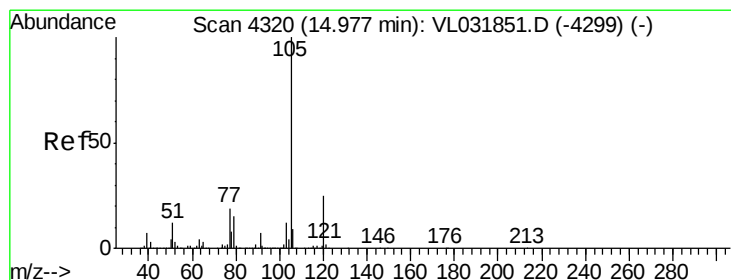
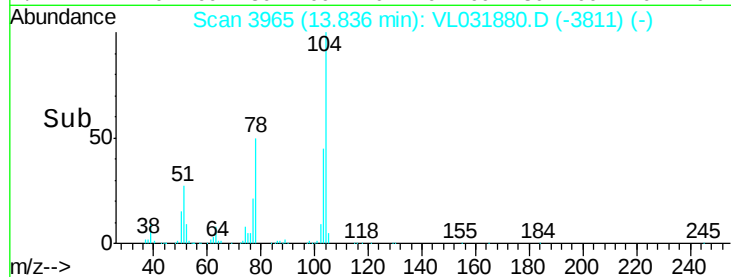
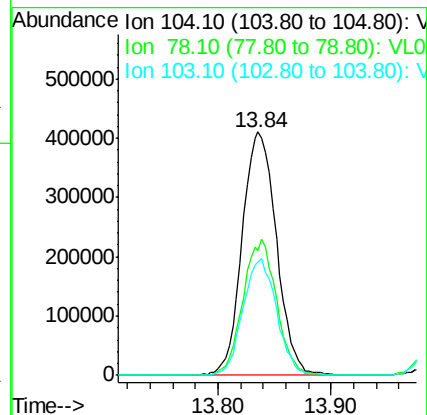
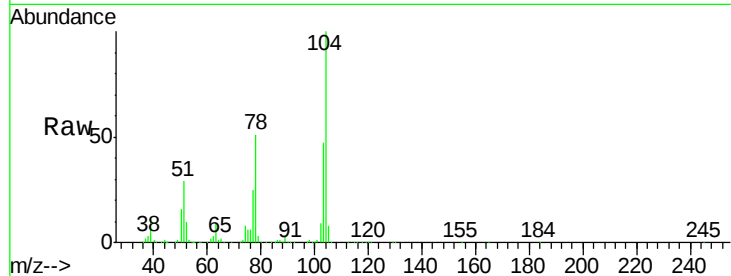
ClientSampleId :

VSTDCCC010

Tot Ion:	104	Resp:	866526
Ion Ratio	Lower	Upper	
104	100		
78	54.6	44.4	66.6
103	47.1	37.9	56.9

Manual Integrations
APPROVED

sam
4/23/2018 12:49:47 PM



#62

Isopropylbenzene

Concen: 9.58 ppbv

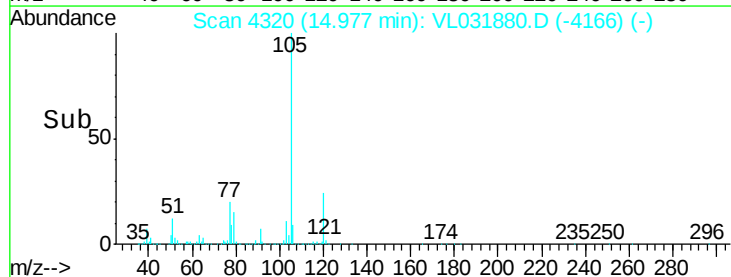
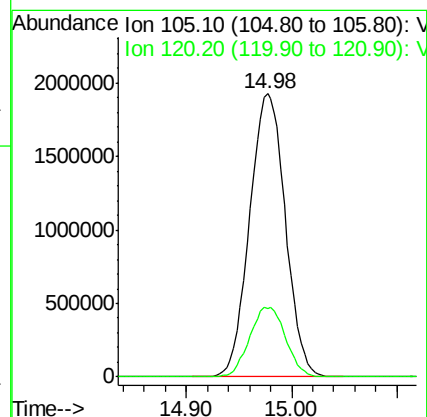
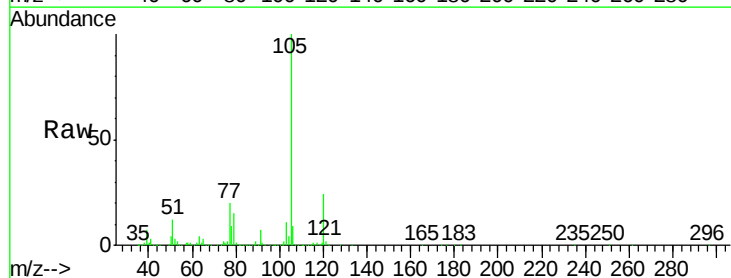
RT: 14.98 min Scan# 4320

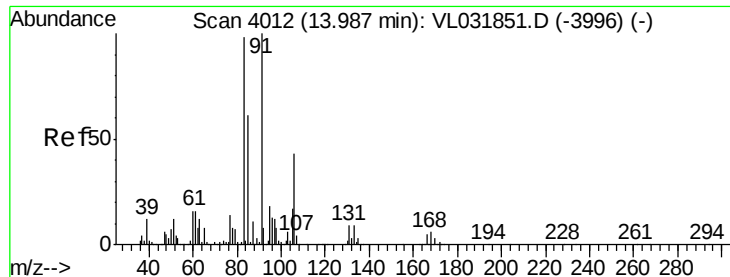
Delta R.T. -0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

Tgt Ion:	105	Resp:	4539156
Ion Ratio	Lower	Upper	
105	100		
120	24.9	19.4	29.2





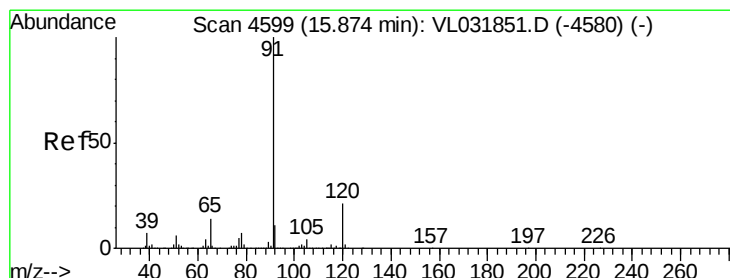
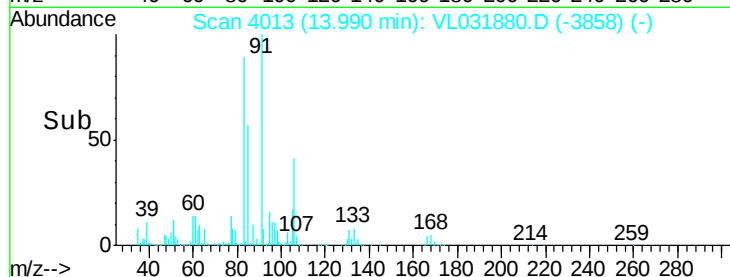
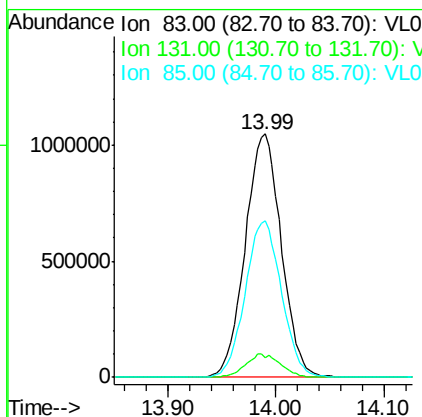
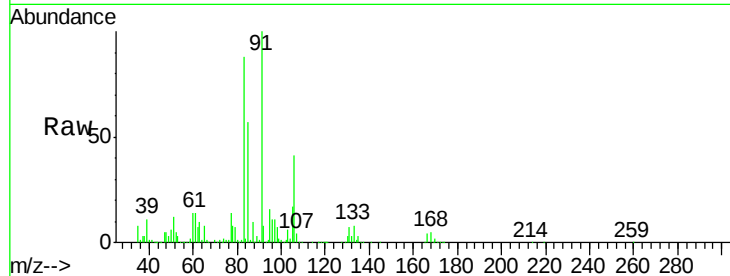
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.60 ppbv
 RT: 13.99 min Scan# 4013
 Delta R.T. -0.00 min
 Lab File: VL031880.D
 Acq: 19 Apr 2018 15:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	83	Resp	2437522
Ion Ratio	100	Lower	Upper
83	100		
131	9.4	4.9	14.6
85	64.4	32.2	96.6

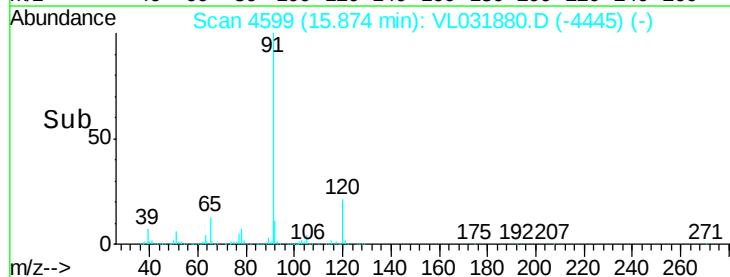
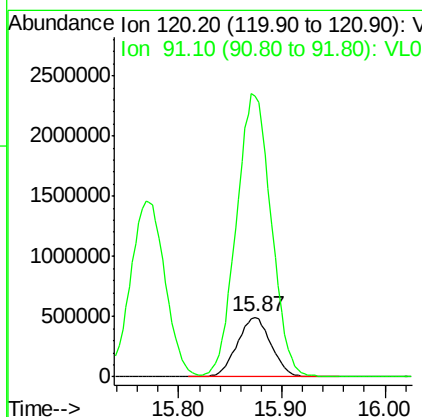
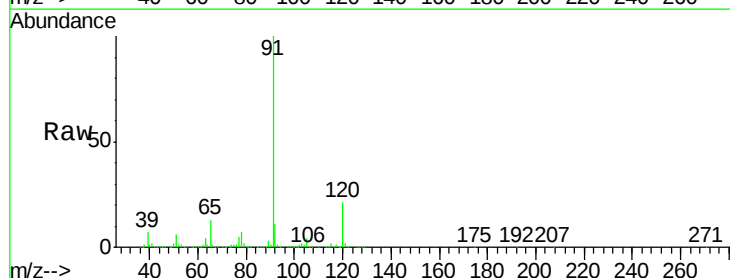
Manual Integrations
 APPROVED

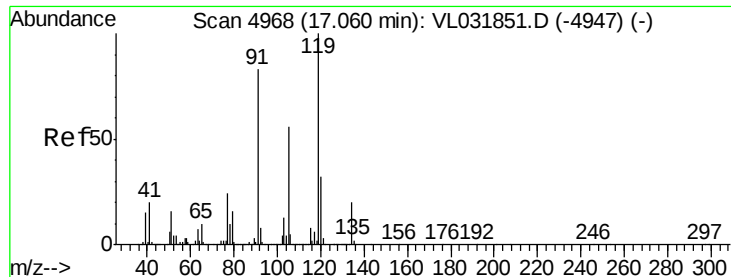
sam
 4/23/2018 12:49:47 PM



#64
 n-propylbenzene
 Concen: 9.80 ppbv
 RT: 15.87 min Scan# 4599
 Delta R.T. -0.00 min
 Lab File: VL031880.D
 Acq: 19 Apr 2018 15:44

Tgt Ion	120	Resp	1128276
Ion Ratio	100	Lower	Upper
120	100		
91	491.0	393.7	590.5





#65

tert-Butylbenzene

Concen: 9.60 ppbv

RT: 17.06 min Scan# 4968

Delta R.T. -0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:119 Resp: 3910677

Ion Ratio Lower Upper

119 100

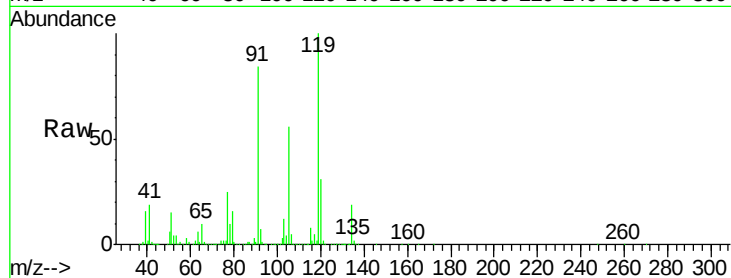
91 86.4 69.4 104.0

134 19.4 15.4 23.2

Manual Integrations
APPROVED

sam

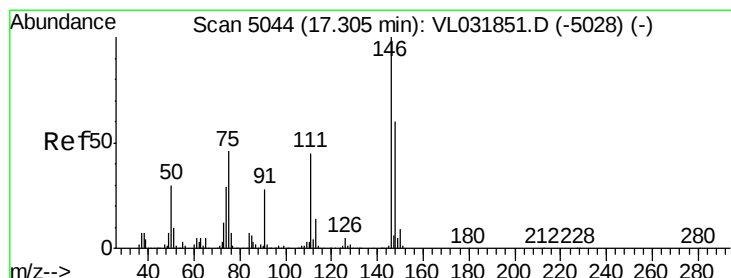
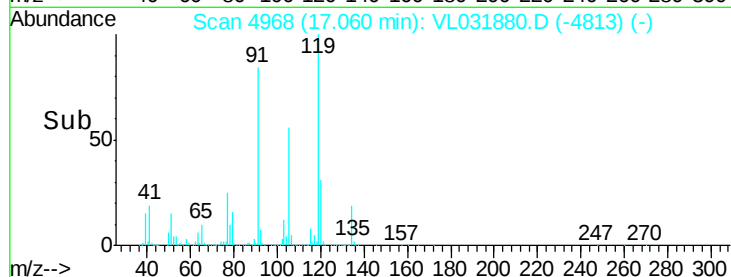
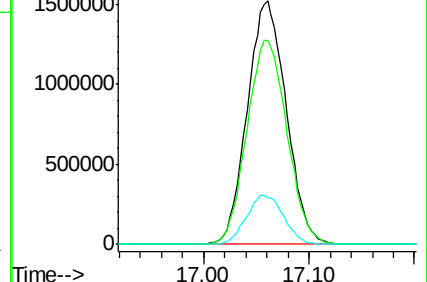
4/23/2018 12:49:47 PM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 10.87 ppbv

RT: 17.31 min Scan# 5045

Delta R.T. -0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

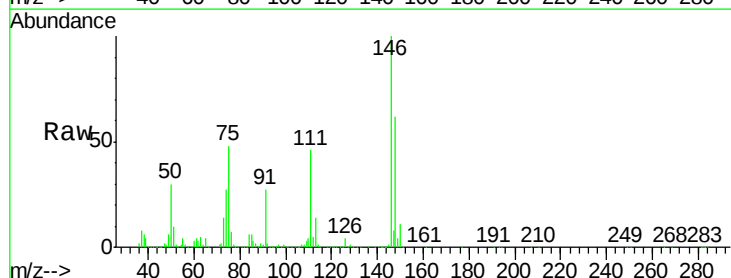
Tgt Ion: 91 Resp: 399008

Ion Ratio Lower Upper

91 100

126 16.8 12.6 19.0

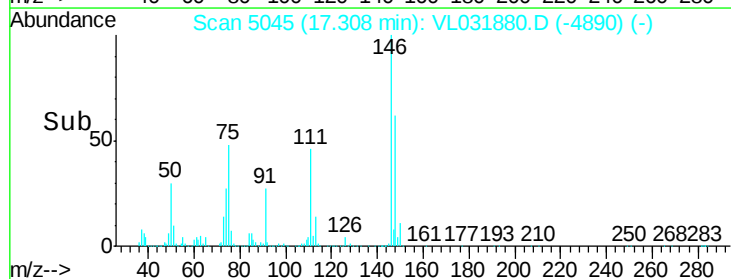
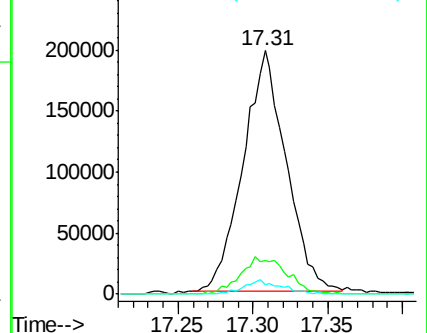
128 5.4 4.0 6.0

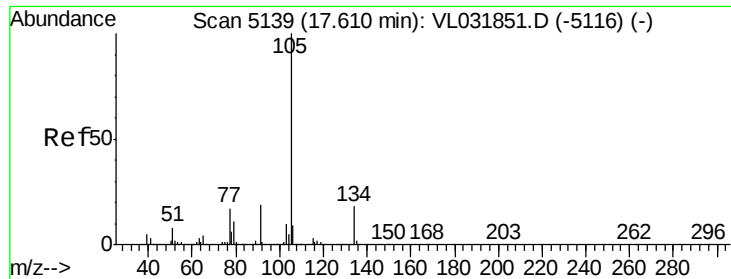


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.50 ppbv

RT: 17.61 min Scan# 5139

Delta R.T. -0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 105 Resp: 5579120

Ion Ratio Lower Upper

105 100

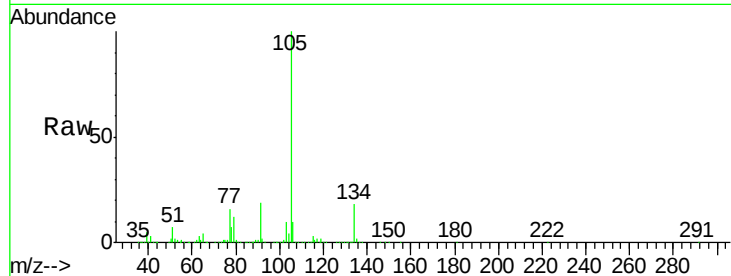
134 17.9 14.2 21.2

Manual Integrations

APPROVED

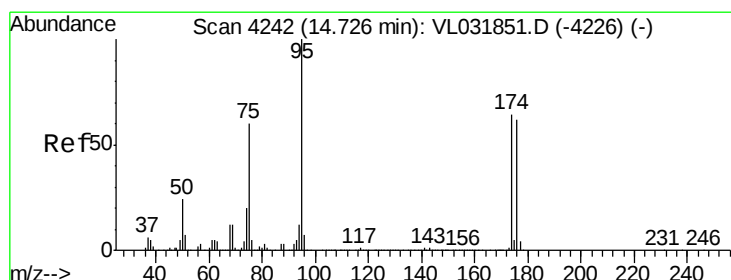
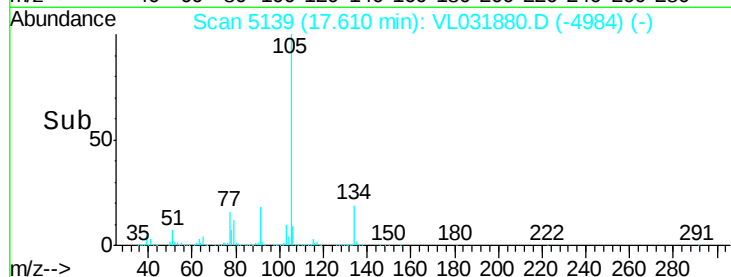
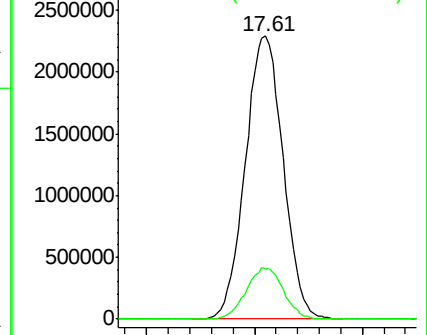
sam

4/23/2018 12:49:47 PM



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: 9.68 ppbv

RT: 14.73 min Scan# 4243

Delta R.T. -0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

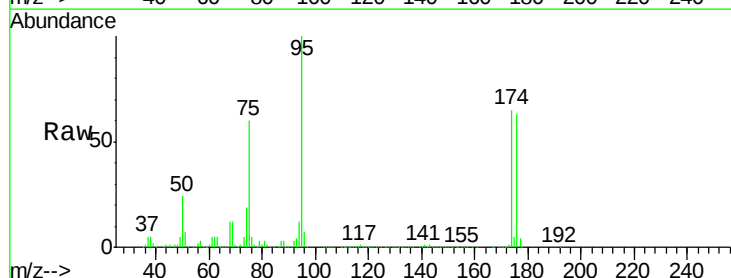
Tgt Ion: 95 Resp: 2381406

Ion Ratio Lower Upper

95 100

174 65.0 52.3 78.5

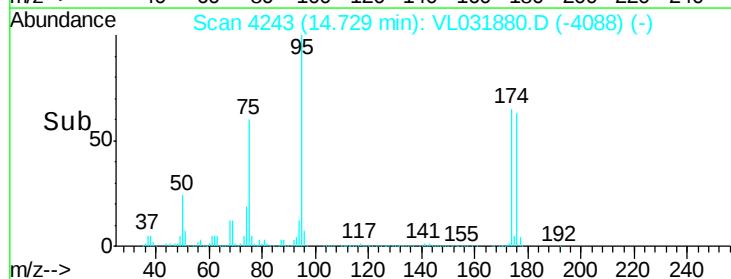
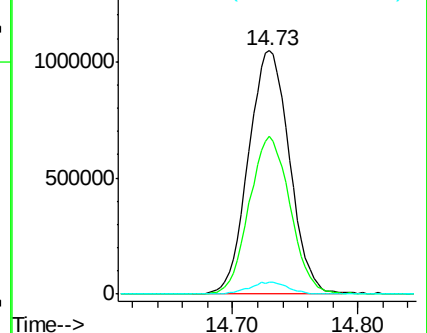
175 4.7 3.9 5.9

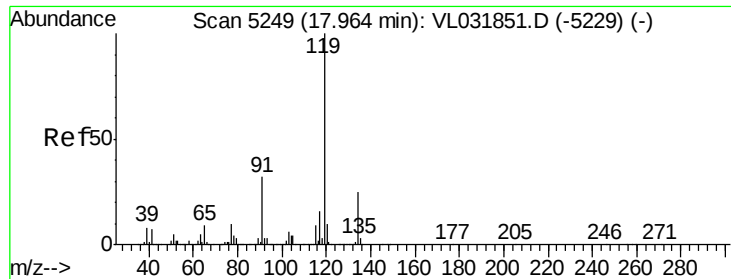


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





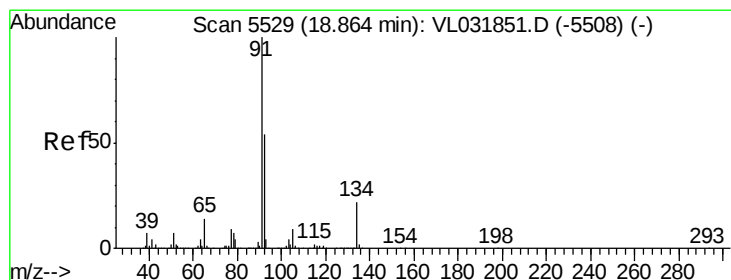
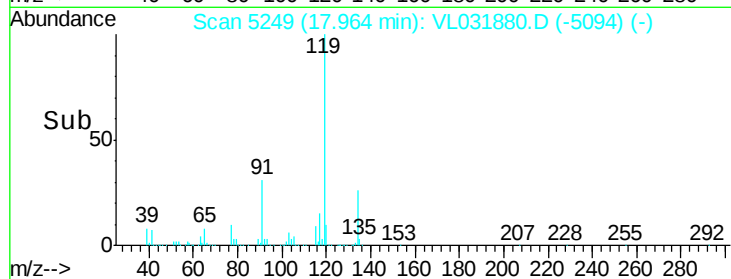
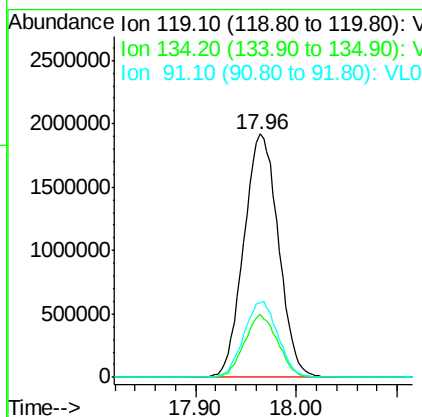
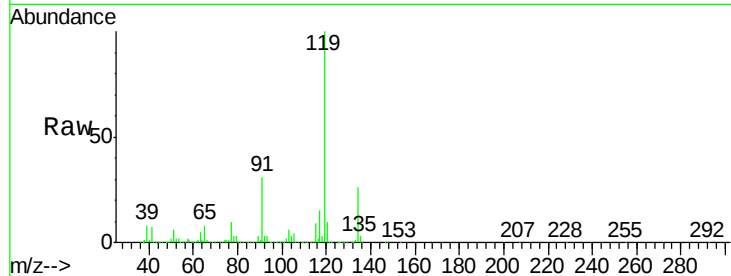
#69
 p-Isopropyltoluene
 Concen: 10.00 ppbv
 RT: 17.96 min Scan# 5249
 Delta R.T. -0.00 min
 Lab File: VL031880.D
 Acq: 19 Apr 2018 15:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	24.8	20.0	30.0
91	30.8	24.9	37.3

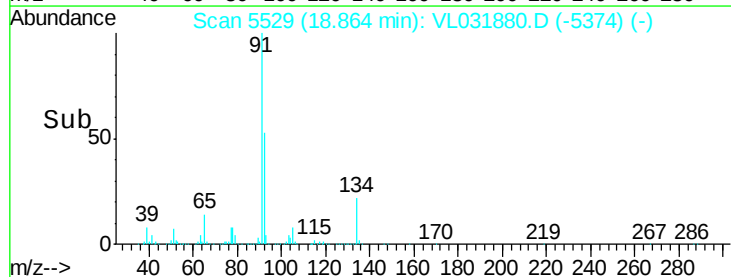
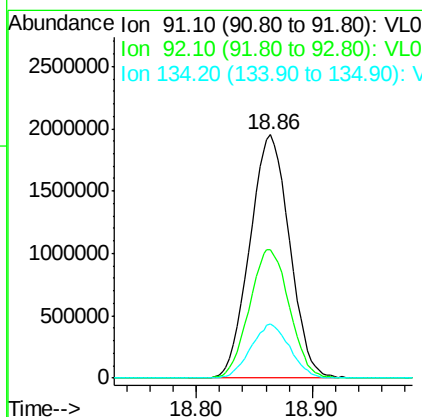
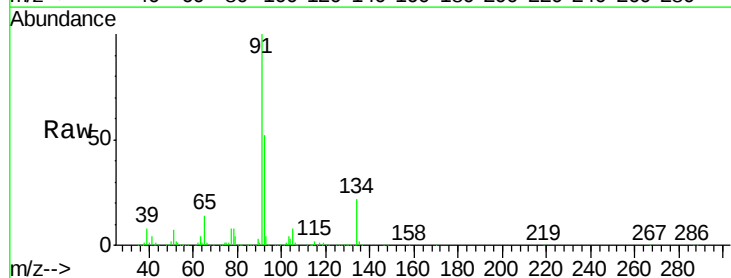
Manual Integrations
 APPROVED

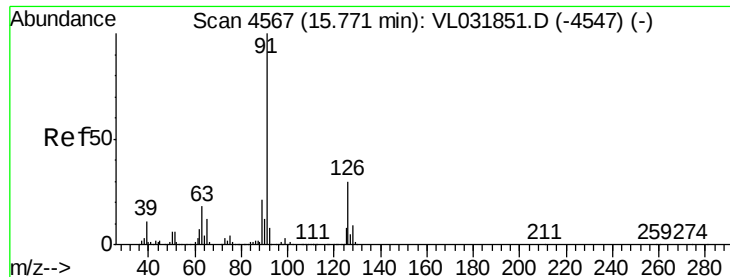
sam
 4/23/2018 12:49:47 PM



#70
 n-Butylbenzene
 Concen: 9.81 ppbv
 RT: 18.86 min Scan# 5529
 Delta R.T. -0.00 min
 Lab File: VL031880.D
 Acq: 19 Apr 2018 15:44

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.2	42.2	63.4
134	21.7	17.4	26.0





#71

2-Chlorotoluene

Concen: 9.93 ppbv

RT: 15.77 min Scan# 4566

Delta R.T. -0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 3400073

Ion Ratio Lower Upper

91 100

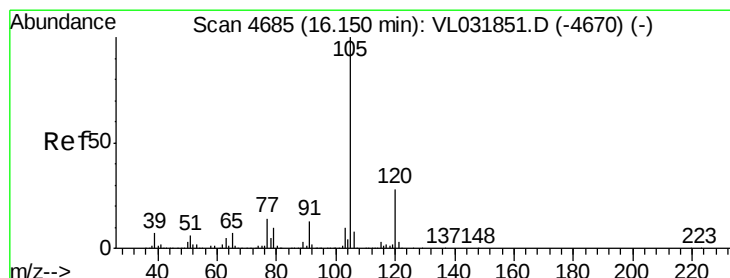
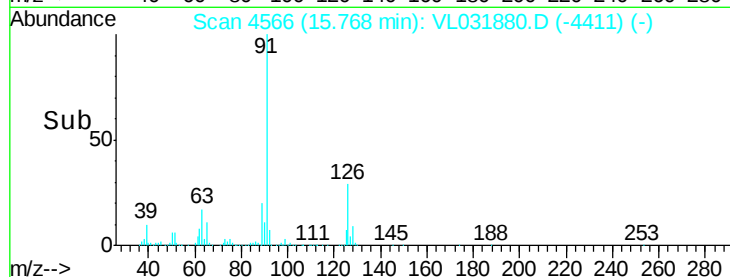
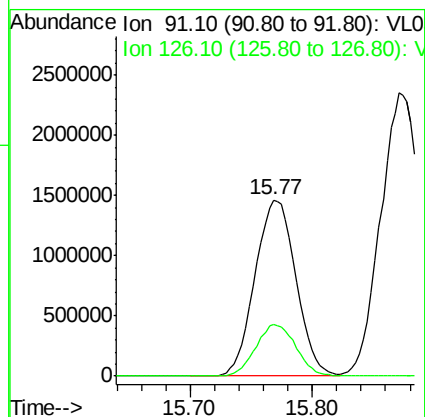
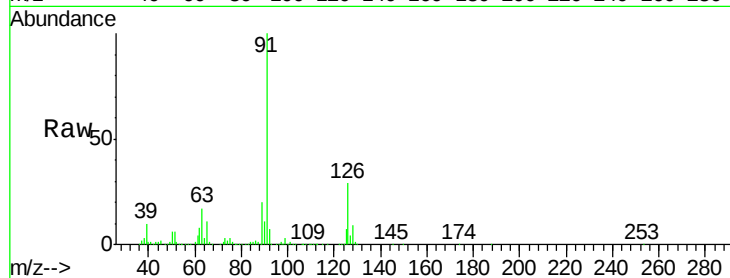
126 28.8 11.6 46.2

Manual Integrations

APPROVED

sam

4/23/2018 12:49:47 PM



#72

4-Ethyltoluene

Concen: 9.97 ppbv

RT: 16.15 min Scan# 4685

Delta R.T. -0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

Tgt Ion: 105 Resp: 3759693

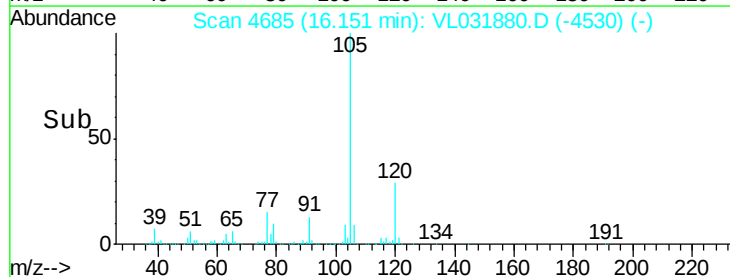
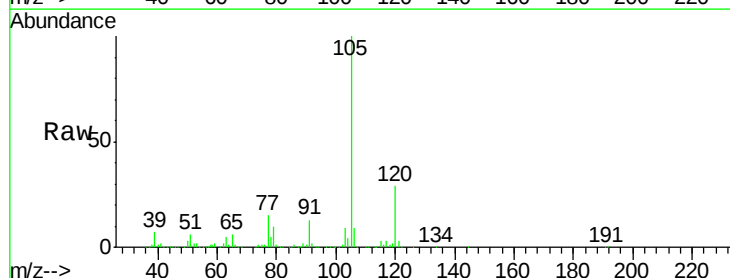
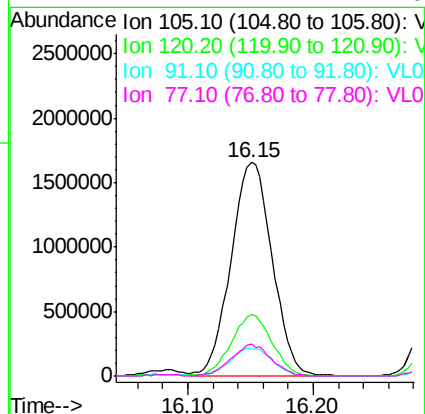
Ion Ratio Lower Upper

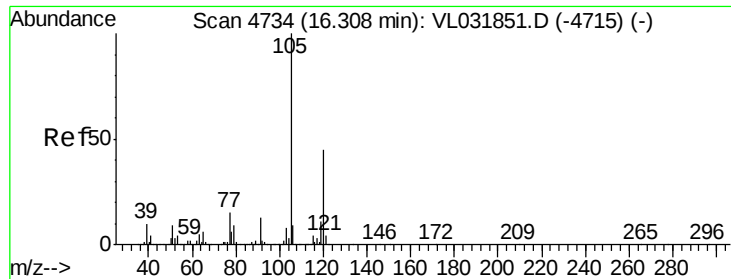
105 100

120 28.5 22.7 34.1

91 13.1 10.6 16.0

77 14.4 11.4 17.0





#73

1,3,5-Trimethylbenzene

Concen: 9.81 ppbv

RT: 16.31 min Scan# 4734

Delta R.T. -0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 3385946

Ion Ratio Lower Upper

105 100

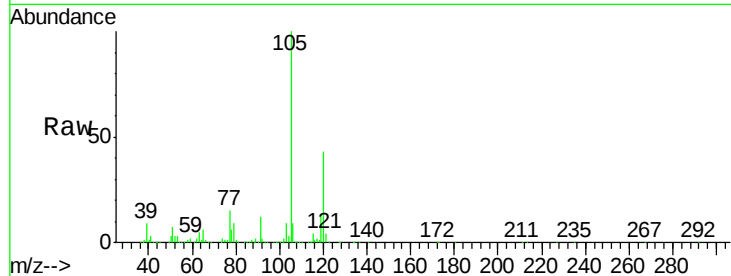
120 43.2 35.3 52.9

Manual Integrations

APPROVED

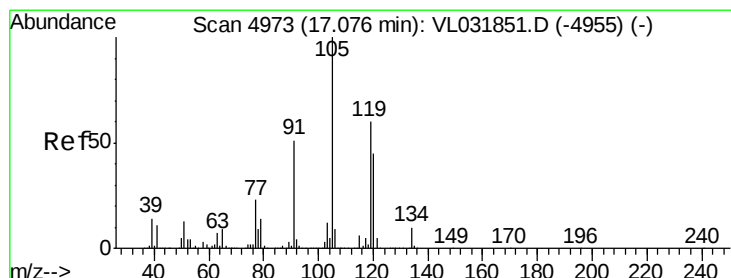
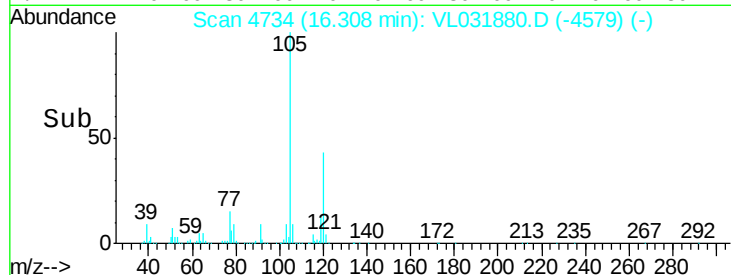
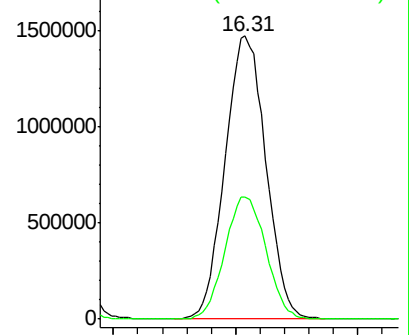
sam

4/23/2018 12:49:47 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 9.27 ppbv

RT: 17.08 min Scan# 4973

Delta R.T. -0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

Tgt Ion:105 Resp: 3571233

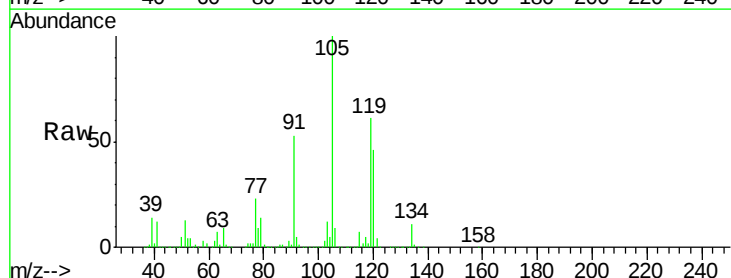
Ion Ratio Lower Upper

105 100

120 45.7 37.0 55.4

91 52.4 43.0 64.4

77 22.8 18.7 28.1

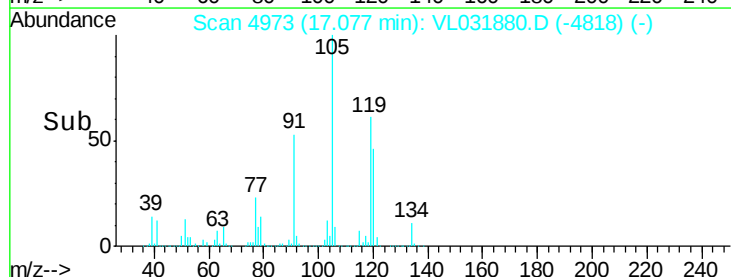
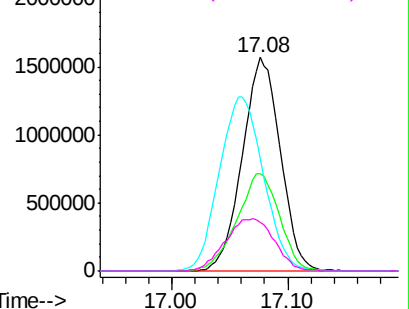


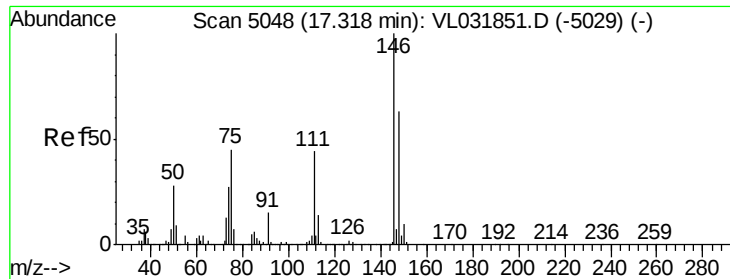
Abundance Ion 105.10 (104.80 to 105.80): V

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





#75

1,3-Dichlorobenzene

Concen: 9.29 ppbv

RT: 17.31 min Scan# 5047

Delta R.T. -0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 2195008

Ion Ratio Lower Upper

146 100

111 47.0 23.8 71.4

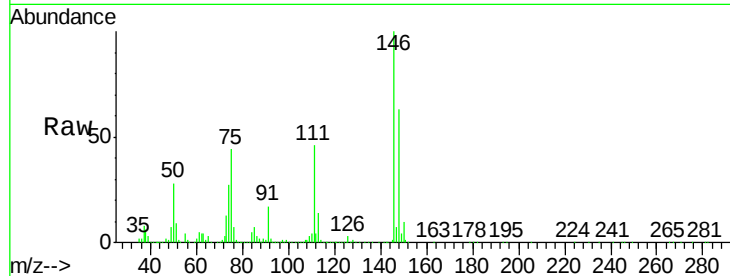
148 64.3 32.0 96.2

Manual Integrations

APPROVED

sam

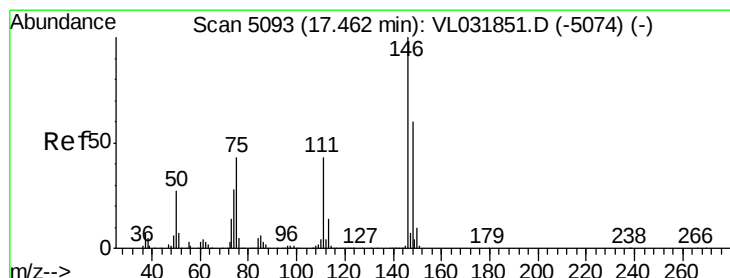
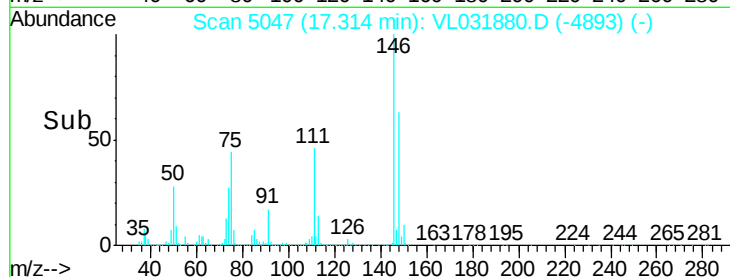
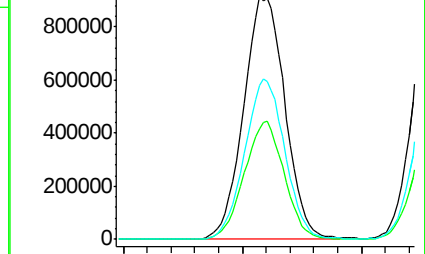
4/23/2018 12:49:47 PM



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 9.61 ppbv

RT: 17.46 min Scan# 5093

Delta R.T. -0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

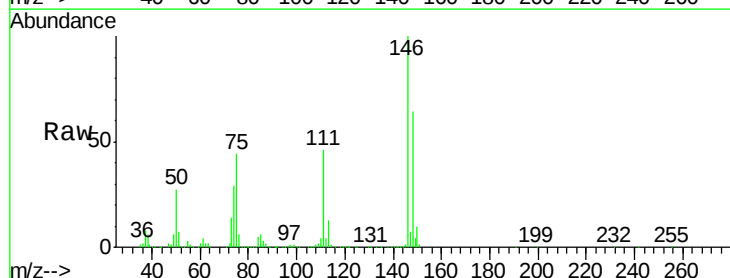
Tgt Ion:146 Resp: 2202949

Ion Ratio Lower Upper

146 100

111 46.3 22.9 68.7

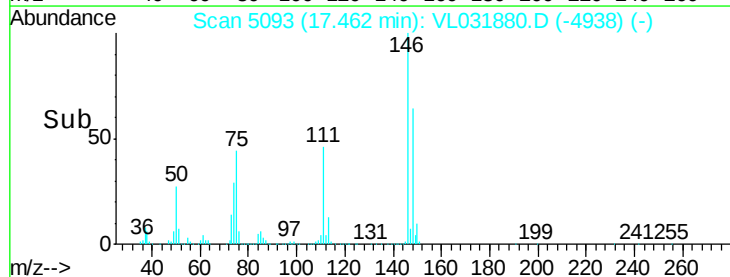
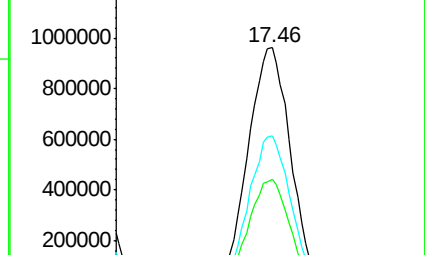
148 64.8 32.0 96.0

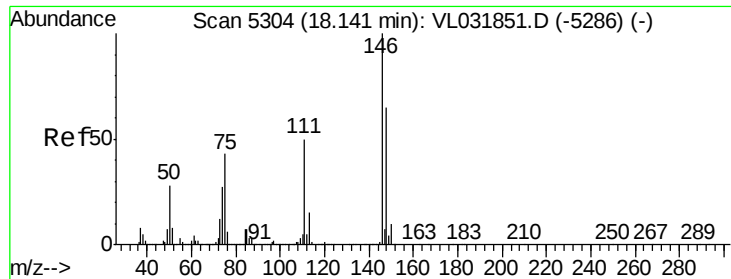


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





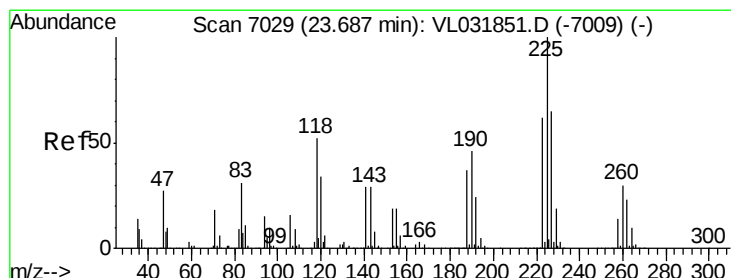
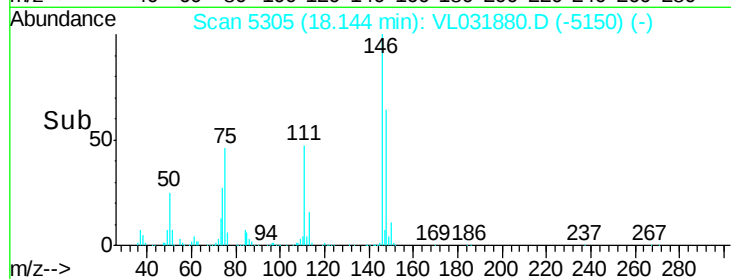
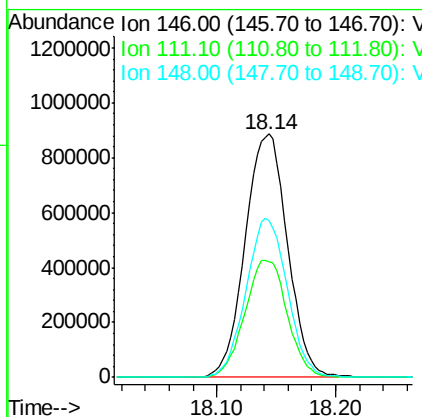
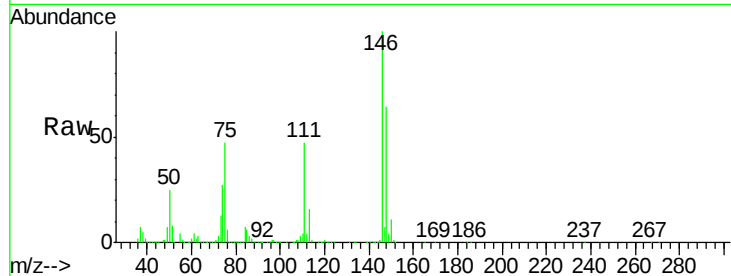
#77
 1,2-Dichlorobenzene
 Concen: 9.36 ppbv
 RT: 18.14 min Scan# 5305
 Delta R.T. -0.00 min
 Lab File: VL031880.D
 Acq: 19 Apr 2018 15:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.3	24.3	72.8
148	64.0	31.8	95.3

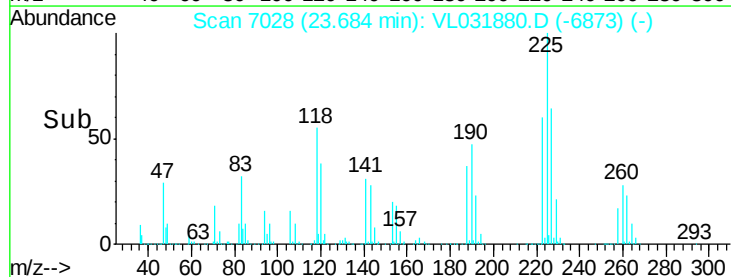
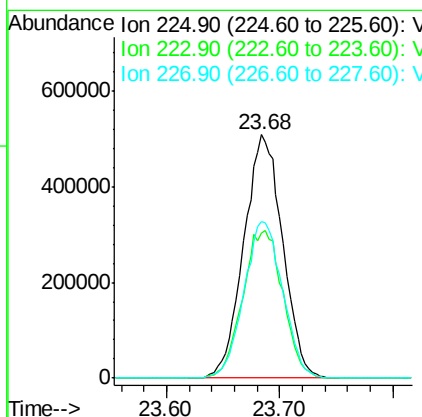
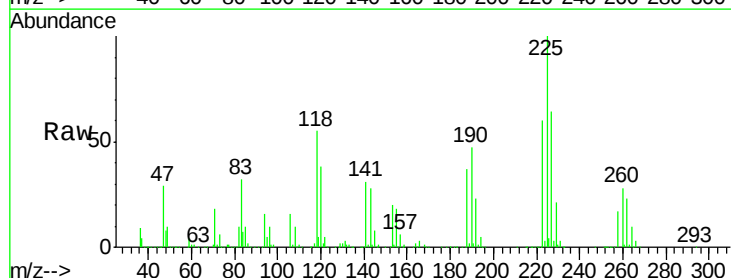
Manual Integrations
 APPROVED

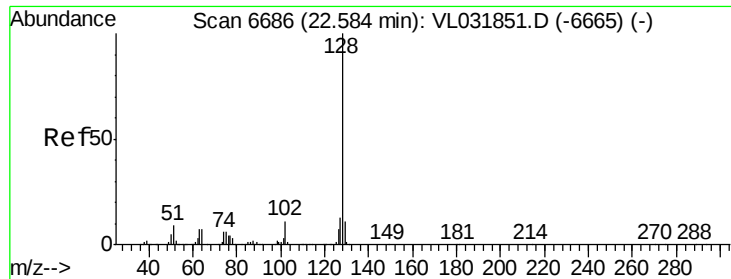
sam
 4/23/2018 12:49:47 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 13.55 ppbv
 RT: 23.68 min Scan# 7028
 Delta R.T. -0.00 min
 Lab File: VL031880.D
 Acq: 19 Apr 2018 15:44

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.6	76.0
227	64.3	52.2	78.4





#79

Naphthalene

Concen: 11.92 ppbv

RT: 22.59 min Scan# 6688

Delta R.T. -0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

Instrument :

MSVOA_L

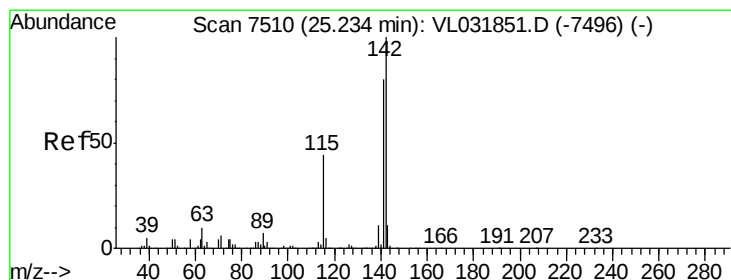
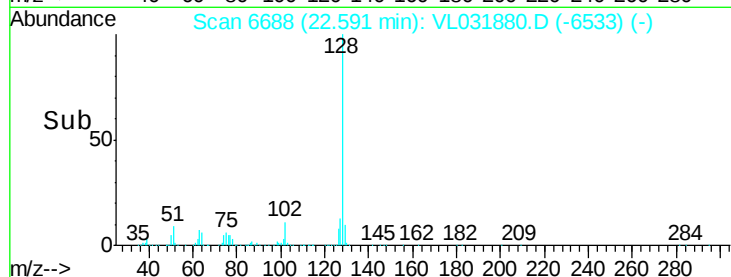
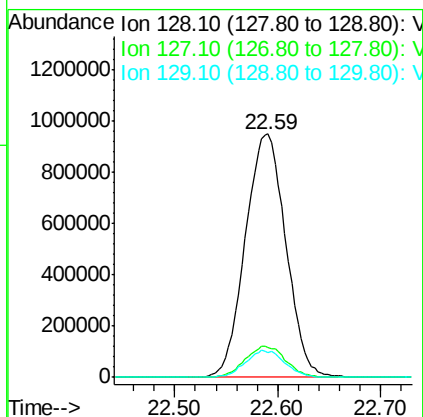
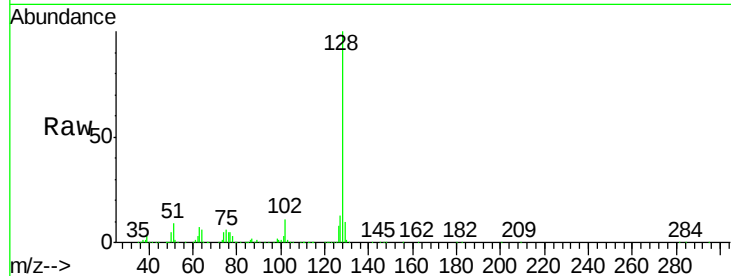
ClientSampleId :

VSTDCCC010

Tot Ion:	128	Resp:	2584693
Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.2	15.4
129	10.3	9.4	14.2

Manual Integrations
APPROVED

sam
4/23/2018 12:49:47 PM



#80

Naphthalene, 2-methyl-

Concen: 16.86 ppbv

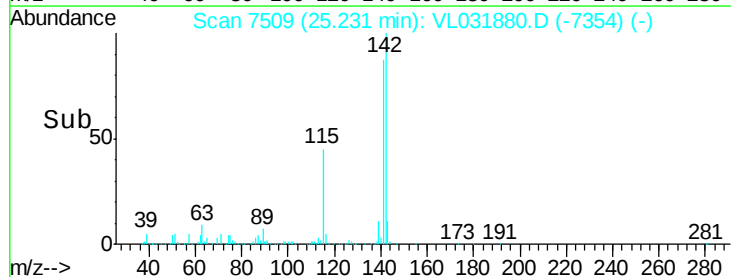
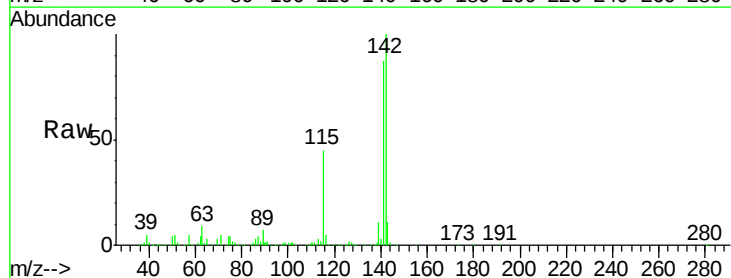
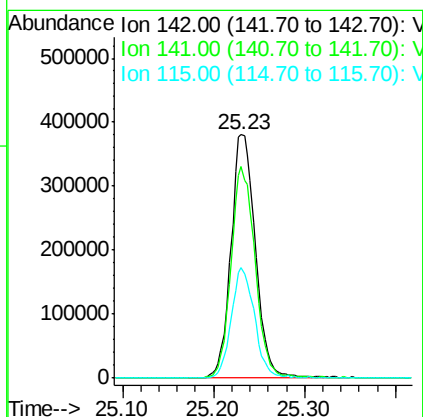
RT: 25.23 min Scan# 7509

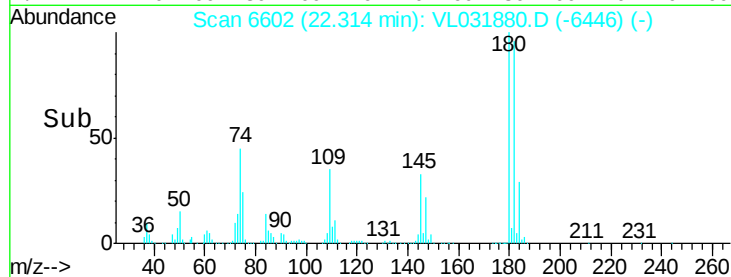
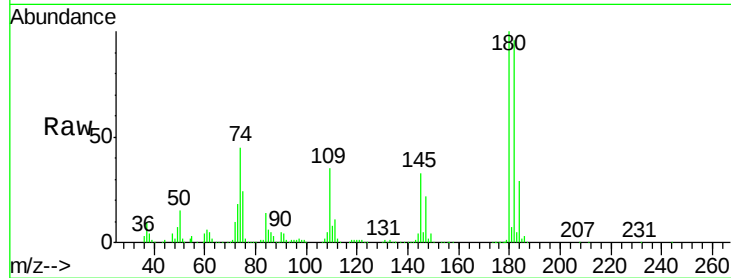
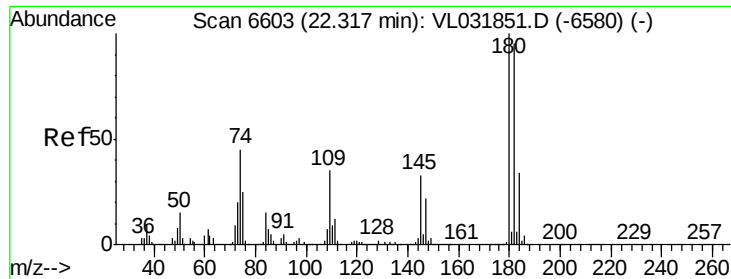
Delta R.T. -0.00 min

Lab File: VL031880.D

Acq: 19 Apr 2018 15:44

Tgt Ion:	142	Resp:	713454
Ion	Ratio	Lower	Upper
142	100		
141	85.5	67.0	100.4
115	43.3	35.3	52.9





#81
 1,2,4-Trichlorobenzene
 Concen: 11.06 ppbv
 RT: 22.31 min Scan# 6602
 Delta R.T. 0.00 min
 Lab File: VL031880.D
 Acq: 19 Apr 2018 15:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:180 Resp: 1330563
 Ion Ratio Lower Upper
 180 100
 182 96.2 76.3 114.5
 184 30.8 24.2 36.2

Manual Integrations
 APPROVED

sam
 4/23/2018 12:49:47 PM

