

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012819\
 Data File : VL033121.D
 Acq On : 28 Jan 2019 21:14
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
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Quant Time: Jan 28 21:52:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL012819AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 28 2019
 QLast Update : Mon Jan 28 16:32:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1227203	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3202890	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3284653	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2426326	9.64	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	2399793	10.508	ppbv	99
3) Chlorodifluoromethane	3.01	51	1395089	10.043	ppbv	99
4) Chloromethane	3.17	50	760548	9.559	ppbv	98
5) Vinyl Chloride	3.29	62	795070	9.894	ppbv	100
6) Bromomethane	3.51	94	497316	9.110	ppbv	97
7) Chloroethane	3.60	64	292953	9.323	ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	1937950	9.851	ppbv	99
9) Propene	3.03	41	599970	11.561	ppbv	98
10) Heptane	8.24	43	1474864	9.982	ppbv	99
11) Trichlorofluoromethane	4.00	101	1949577	7.725	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1352326	8.475	ppbv	99
13) Ethanol	3.65	45	155549	7.516	ppbv	96
14) Bromoethene	3.79	108	631516	8.960	ppbv	100
15) Acetone	3.90	43	1253216	7.378	ppbv	98
16) 1,3-Butadiene	3.36	39	642828	10.036	ppbv	94
17) tert-Butyl alcohol	4.36	59	325896	9.057	ppbv	99
18) 1,1-Dichloroethene	4.35	96	631741	8.595	ppbv	97
19) Isopropyl Alcohol	4.02	45	961581	8.223	ppbv	99
20) Methylene Chloride	4.41	84	541851	7.652	ppbv	98
21) Allyl Chloride	4.47	41	997279	9.474	ppbv	100
22) trans-1,2-Dichloroethene	4.96	96	638345	8.761	ppbv	96
23) Vinyl Acetate	5.15	43	2164390	10.016	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1595133	8.694	ppbv	100
25) Ethyl Acetate	5.77	43	2570792	8.954	ppbv	100
26) Hexane	5.78	57	1189645	8.799	ppbv	97
27) Carbon Disulfide	4.62	76	1600307	9.598	ppbv	98
28) Methyl tert-Butyl Ether	5.11	73	2039713	9.666	ppbv	99
29) Chloroform	5.85	83	1945560	8.445	ppbv	95
30) Cyclohexane	7.25	84	1063065	10.546	ppbv	98
31) cis-1,2-Dichloroethene	5.64	61	1223847	9.749	ppbv	97
32) 1,1,1-Trichloroethane	6.62	97	1992241	8.520	ppbv	99
34) 2-Butanone	5.33	43	1644026	8.834	ppbv	99
35) Carbon Tetrachloride	7.13	117	2219550	8.068	ppbv	99
36) Benzene	7.00	78	2470788	9.417	ppbv	99
37) 1,2-Dichloroethane	6.41	62	1492866	8.150	ppbv	99
38) Trichloroethene	7.96	130	1022418	9.473	ppbv	94
39) 1,2-Dichloropropane	7.73	63	926113	9.396	ppbv	98
40) 1,4-Dioxane	7.95	88	349199	9.333	ppbv	89
41) Tetrahydrofuran	6.14	42	950436	10.034	ppbv	100
42) Bromodichloromethane	7.91	83	2142122	8.513	ppbv	98
43) Methyl Methacrylate	8.13	69	990273	10.059	ppbv	99

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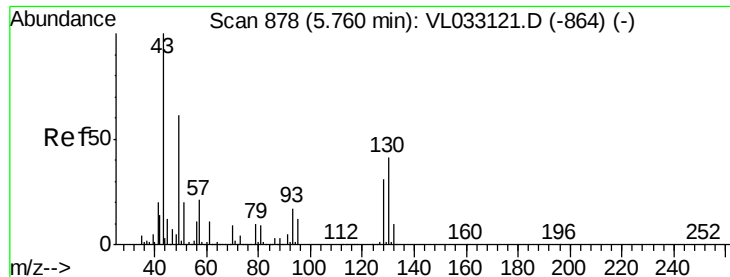
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Quant Time: Jan 28 21:52:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL012819AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 28 2019
 QLast Update : Mon Jan 28 16:32:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	4112536	9.256	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1363968	11.130	ppbv	100
46) cis-1,3-Dichloropropene	8.83	75	1546095	11.054	ppbv	99
47) 1,1,2-Trichloroethane	9.61	97	1047509	9.097	ppbv	96
48) Dibromochloromethane	10.45	129	1906144	9.369	ppbv	99
49) Bromoform	13.20	173	1647731	9.270	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2314414	9.815	ppbv	99
51) 2-Hexanone	10.27	43	1788229	10.481	ppbv	100
52) Tetrachloroethene	11.37	164	907178	9.782	ppbv	99
53) Toluene	9.95	91	2891160	10.283	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1613495	9.725	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.28	131	1350600	7.958	ppbv	98
57) Chlorobenzene	12.30	112	2251651	8.213	ppbv	97
58) Ethyl Benzene	12.86	91	3942526	9.507	ppbv	99
59) m/p-Xylene	13.15	91	6746545m	17.585	ppbv	
60) o-Xylene	13.85	91	3234723	8.613	ppbv	99
61) Styrene	13.69	104	2446986	10.211	ppbv	99
62) Isopropylbenzene	14.82	105	4677339	8.751	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	2210427	7.923	ppbv	99
64) n-propylbenzene	15.72	120	1079051	7.947	ppbv	97
65) tert-Butylbenzene	16.91	119	3673964	7.760	ppbv	99
66) Benzyl Chloride	17.16	91	2231359	8.269	ppbv	100
67) sec-Butylbenzene	17.46	105	5067983	7.480	ppbv	100
69) p-Isopropyltoluene	17.82	119	6004612	10.919	ppbv	100
70) n-Butylbenzene	18.72	91	4185852	7.572	ppbv	99
71) 2-Chlorotoluene	15.61	91	3324634m	8.771	ppbv	
72) 4-Ethyltoluene	16.00	105	3742879	9.068	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3556301	8.733	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	3286531m	7.287	ppbv	
75) 1,3-Dichlorobenzene	17.16	146	1864159	7.022	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1879956	7.774	ppbv	97
77) 1,2-Dichlorobenzene	17.99	146	2539300	10.621	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	800409	4.359	ppbv	99
79) Naphthalene	22.41	128	2738480	7.208	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	1025006	8.891	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	1318056	7.182	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

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ClientSampleId :

VSTDICCC010

Tot Ion: 49 Resp: 1227203

Ion Ratio Lower Upper

49 100

128 52.5 25.9 77.7

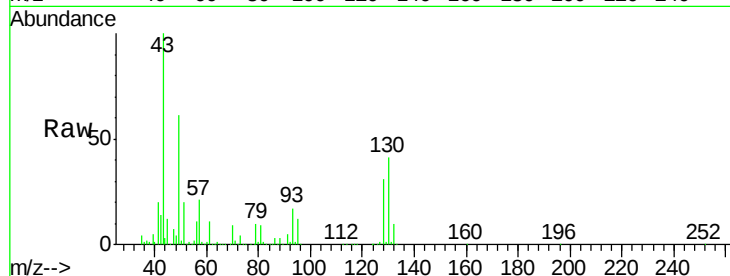
130 67.7 32.9 98.7

Manual Integrations

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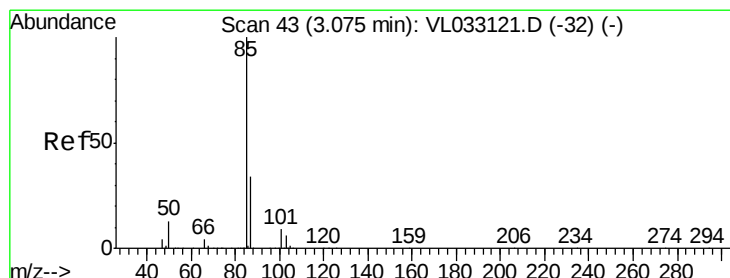
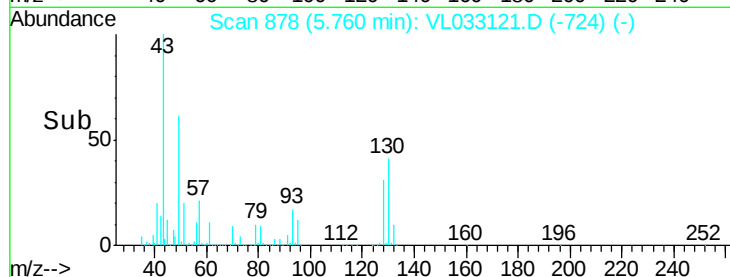
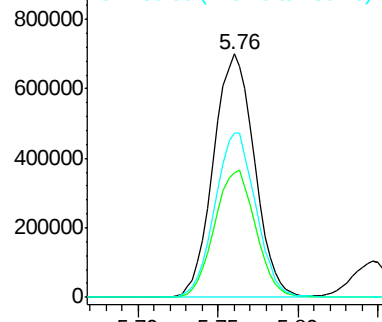
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 10.508 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033121.D

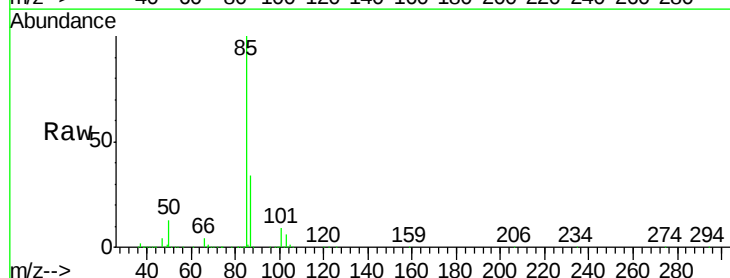
Acq: 28 Jan 2019 21:14

Tgt Ion: 85 Resp: 2399793

Ion Ratio Lower Upper

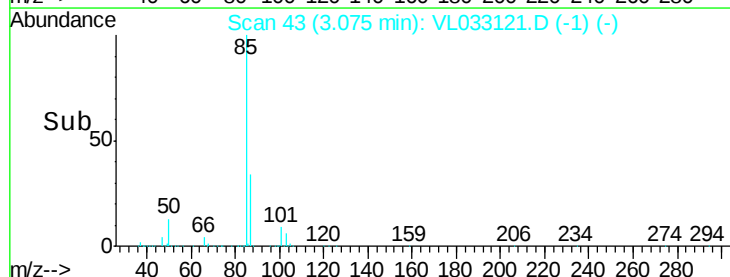
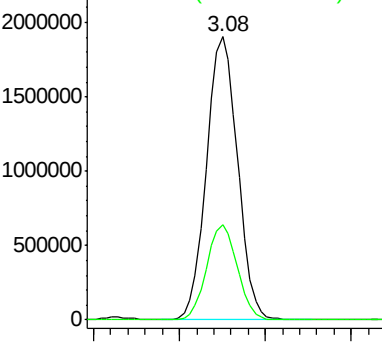
85 100

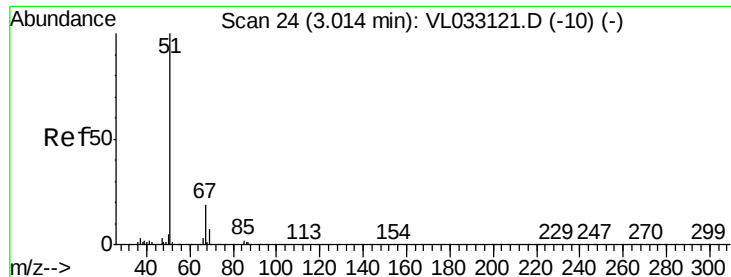
87 33.8 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 10.043 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033121.D

Acq: 28 Jan 2019 21:14

Tot Ion: 51 Resp: 1395089

Ion Ratio Lower Upper

51 100

67 19.5 16.2 24.2

Instrument :

MSVOA_L

ClientSampleId :

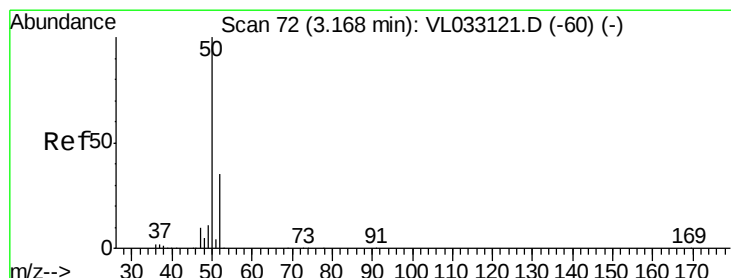
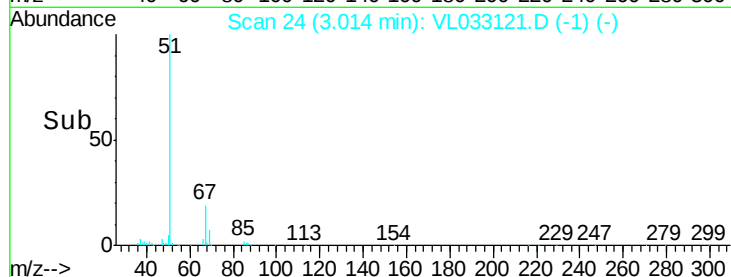
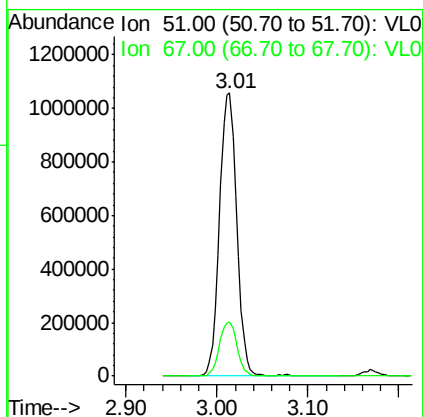
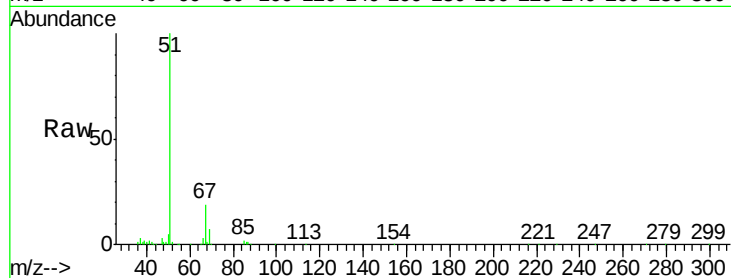
VSTDICCC010

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#4

Chloromethane

Concen: 9.559 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033121.D

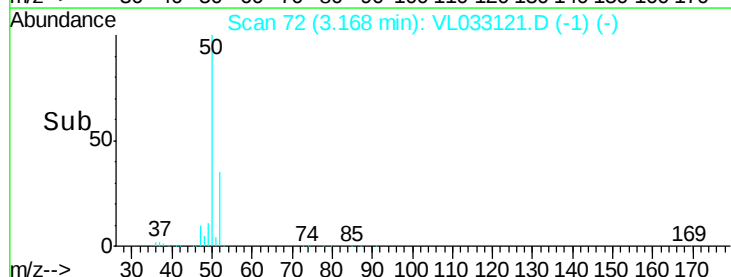
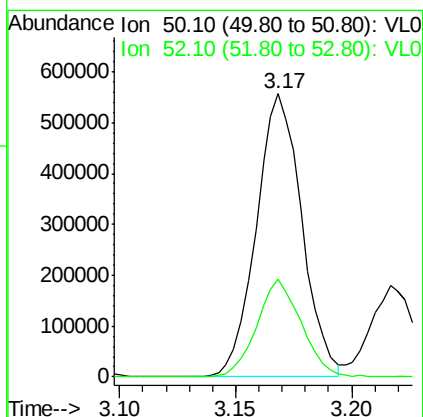
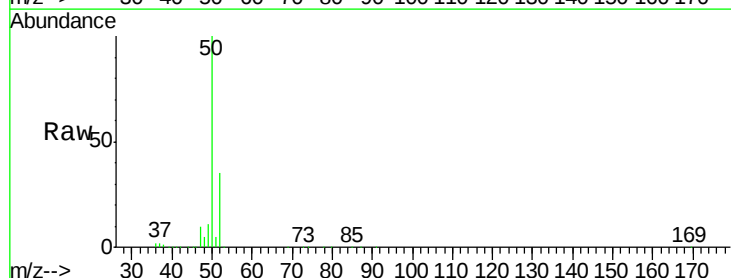
Acq: 28 Jan 2019 21:14

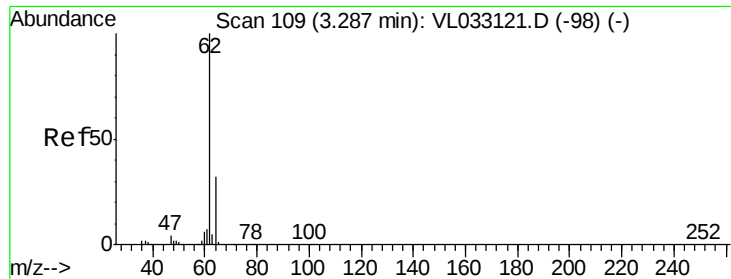
Tgt Ion: 50 Resp: 760548

Ion Ratio Lower Upper

50 100

52 34.7 27.0 40.4





#5

Vinyl Chloride

Concen: 9.894 ppbv

RT: 3.29 min Scan# 109

Delta R.T. -0.00 min

Lab File: VL033121.D

Acq: 28 Jan 2019 21:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 62 Resp: 795070

Ion Ratio Lower Upper

62 100

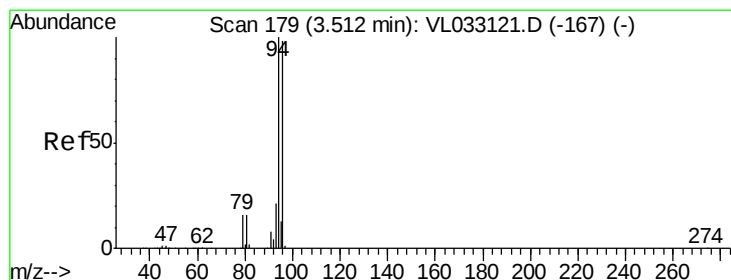
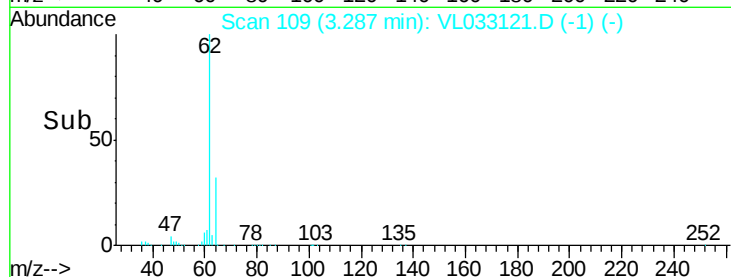
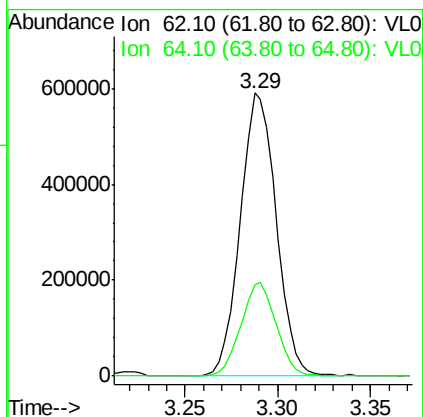
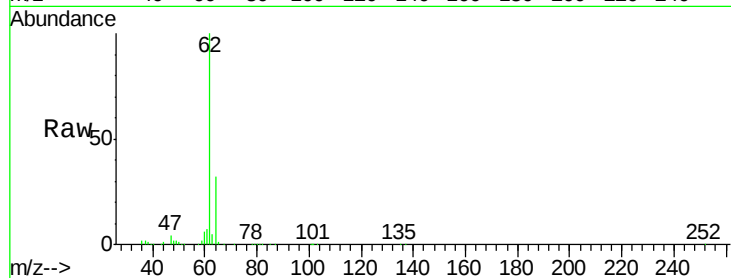
64 32.3 25.7 38.5

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#6

Bromomethane

Concen: 9.110 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033121.D

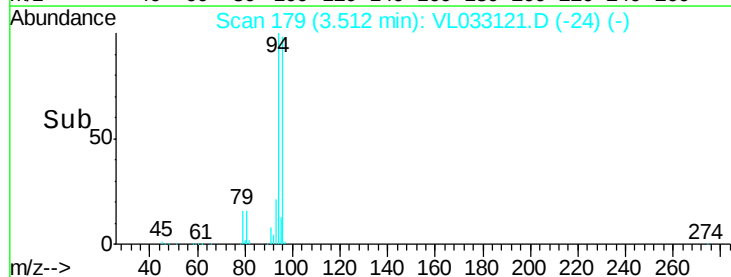
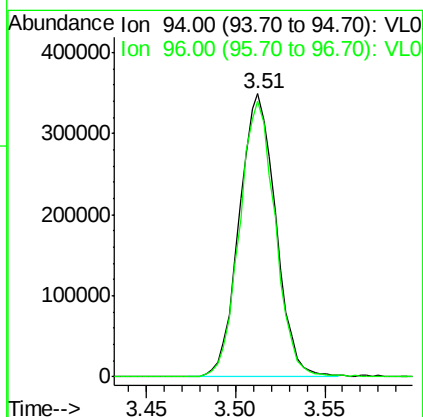
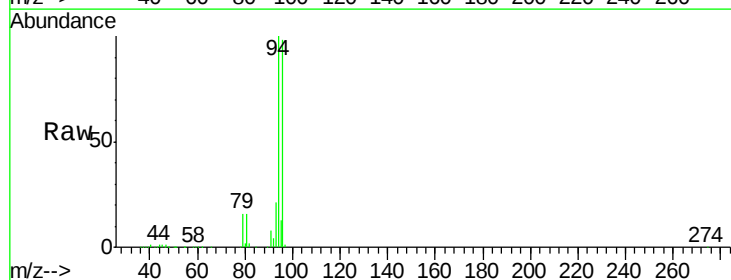
Acq: 28 Jan 2019 21:14

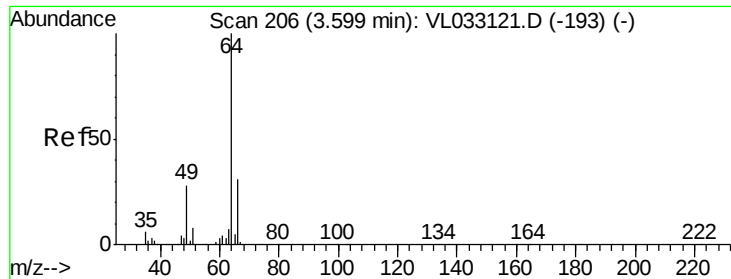
Tgt Ion: 94 Resp: 497316

Ion Ratio Lower Upper

94 100

96 97.6 75.4 113.2





#7

Chloroethane

Concen: 9.323 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033121.D

Acq: 28 Jan 2019 21:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 64 Resp: 292953

Ion Ratio Lower Upper

64 100

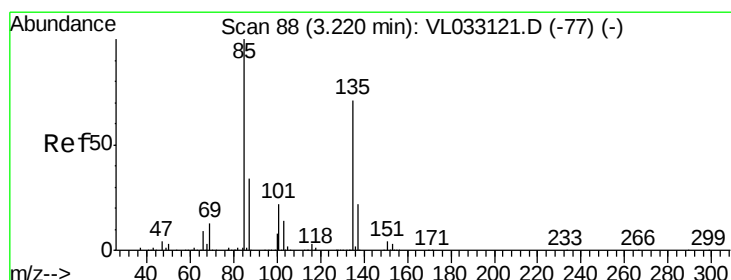
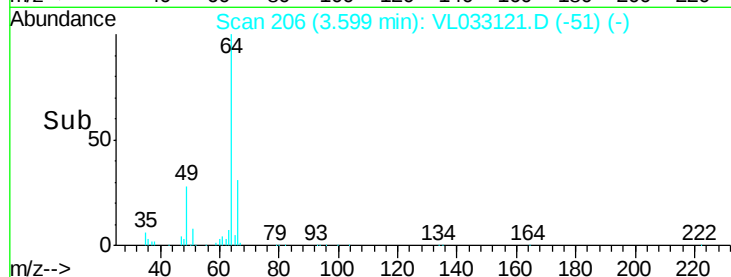
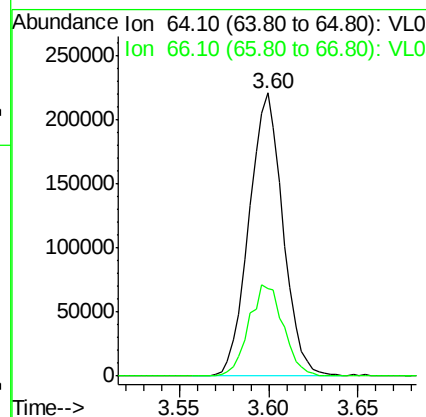
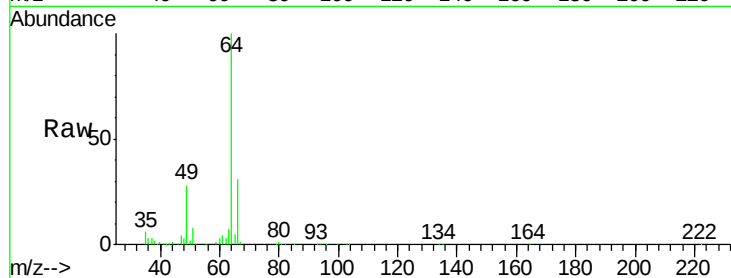
66 31.0 24.0 36.0

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#8

Dichlorotetrafluoroethane

Concen: 9.851 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033121.D

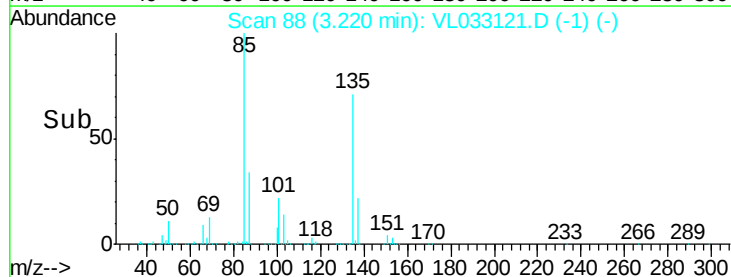
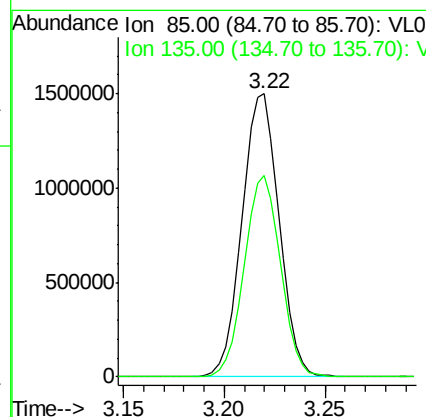
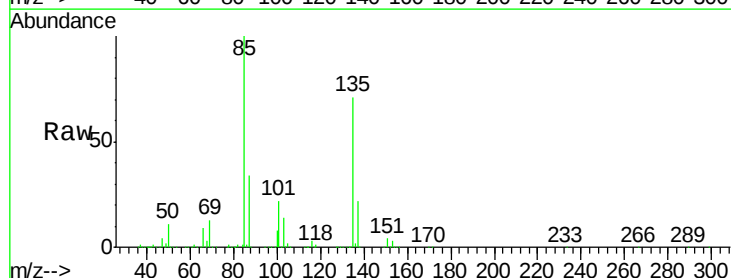
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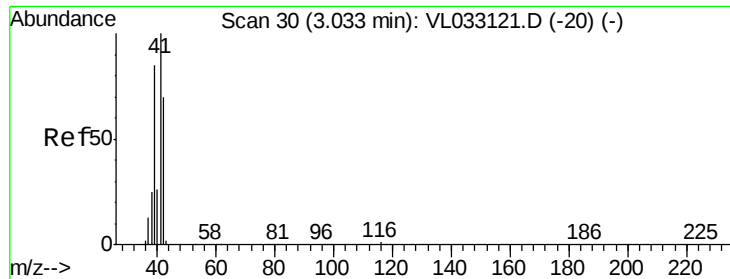
Tgt Ion: 85 Resp: 1937950

Ion Ratio Lower Upper

85 100

135 69.7 54.8 82.2





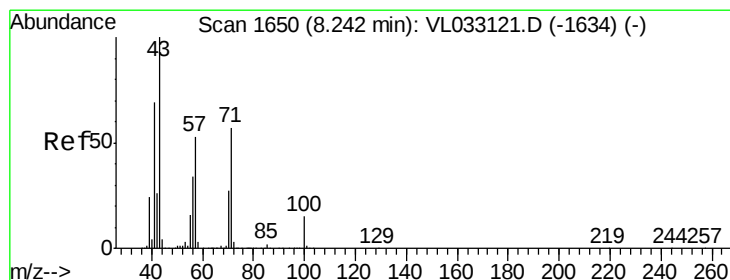
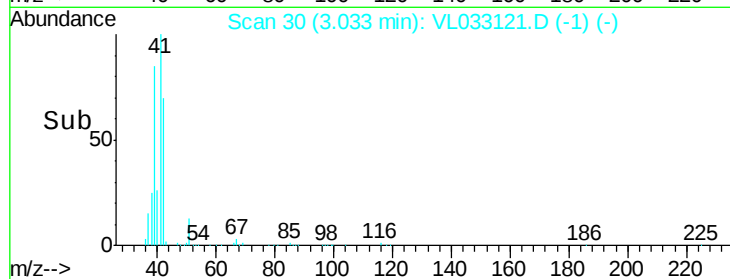
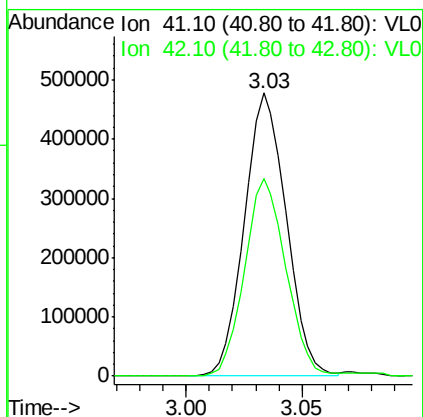
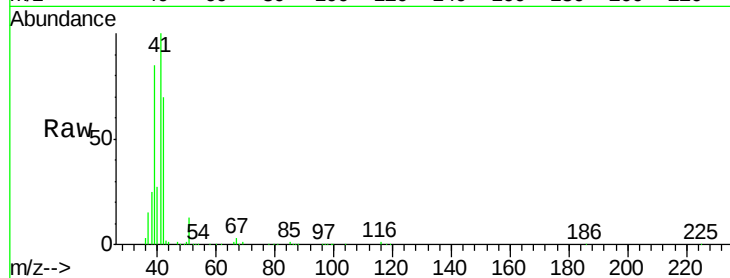
#9
 Propene
 Concen: 11.561 ppbv
 RT: 3.03 min Scan# 30
 Delta R.T. -0.00 min
 Lab File: VL033121.D
 Acq: 28 Jan 2019 21:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 41 Resp: 599970
 Ion Ratio Lower Upper
 41 100
 42 70.2 54.6 82.0

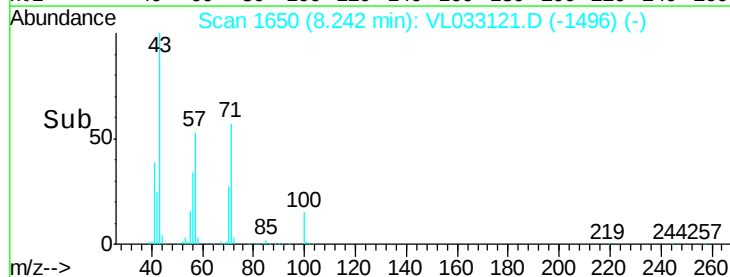
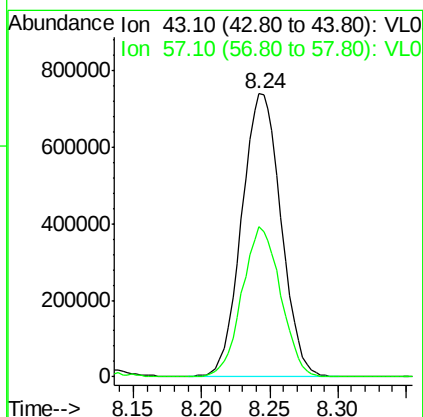
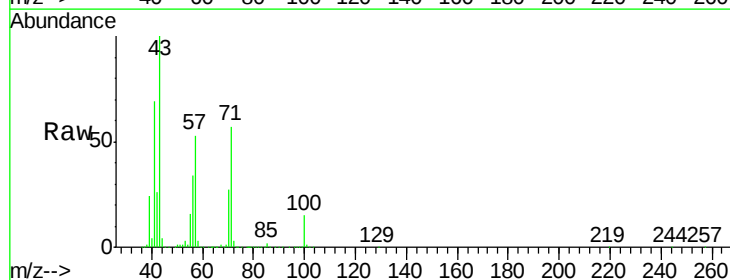
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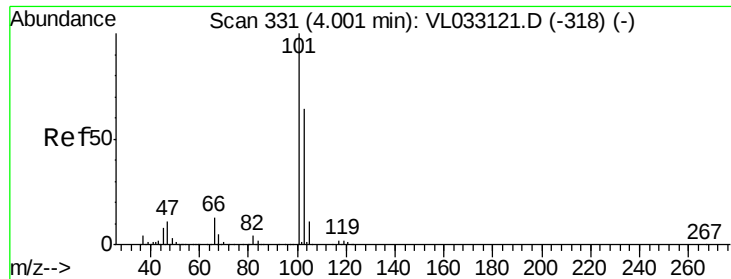
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#10
 Heptane
 Concen: 9.982 ppbv
 RT: 8.24 min Scan# 1650
 Delta R.T. -0.00 min
 Lab File: VL033121.D
 Acq: 28 Jan 2019 21:14

Tgt Ion: 43 Resp: 1474864
 Ion Ratio Lower Upper
 43 100
 57 52.0 42.2 63.2





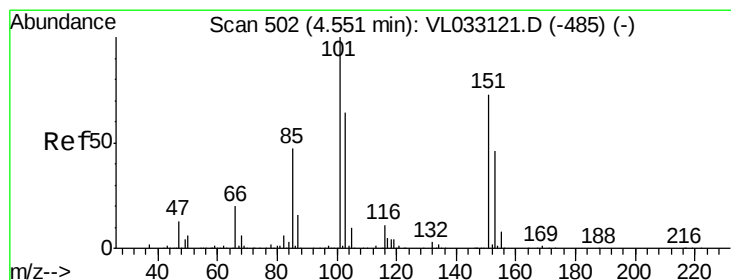
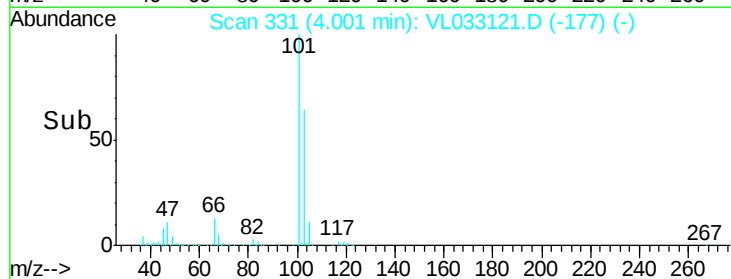
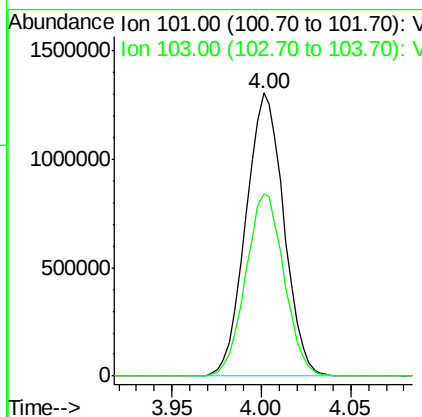
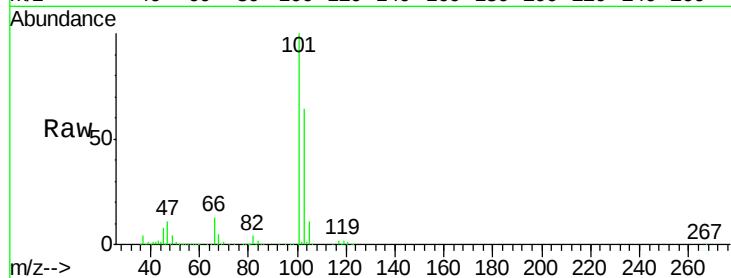
#11
 Trichlorofluoromethane
 Concen: 7.725 ppbv
 RT: 4.00 min Scan# 331
 Delta R.T. -0.00 min
 Lab File: VL033121.D
 Acq: 28 Jan 2019 21:14

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDICCC010

Tot Ion:101 Resp: 1949577
 Ion Ratio Lower Upper
 101 100
 103 64.5 49.4 74.0

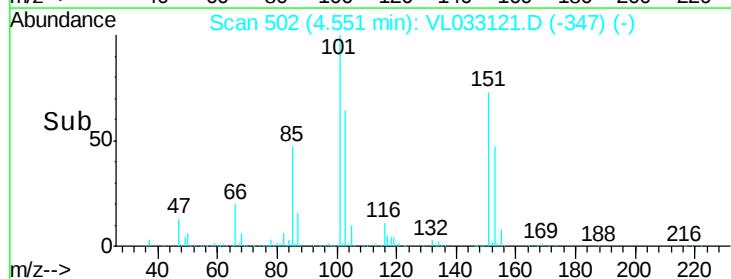
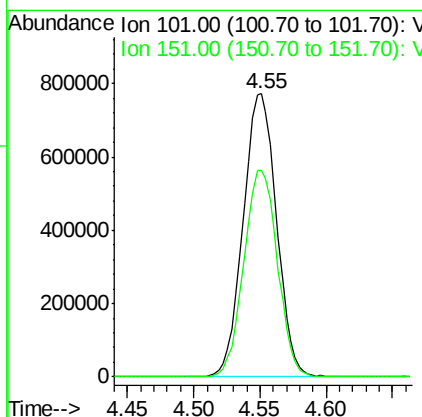
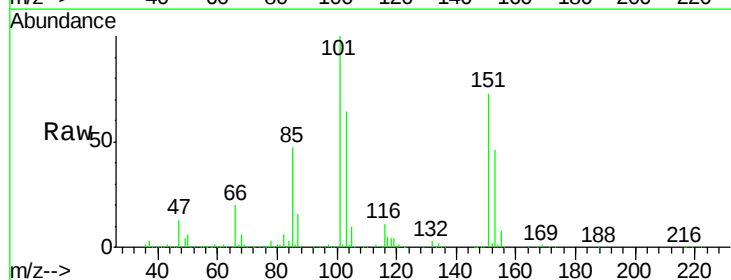
Manual Integrations
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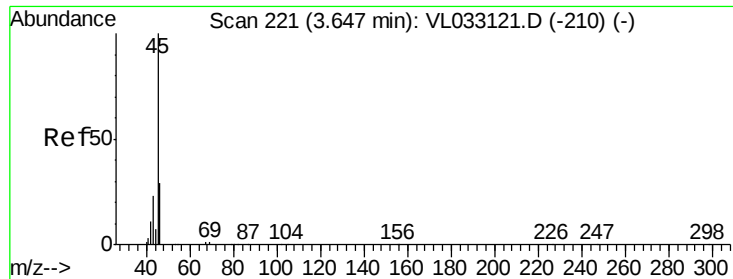
apatel
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.475 ppbv
 RT: 4.55 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VL033121.D
 Acq: 28 Jan 2019 21:14

Tgt Ion:101 Resp: 1352326
 Ion Ratio Lower Upper
 101 100
 151 73.6 57.9 86.9





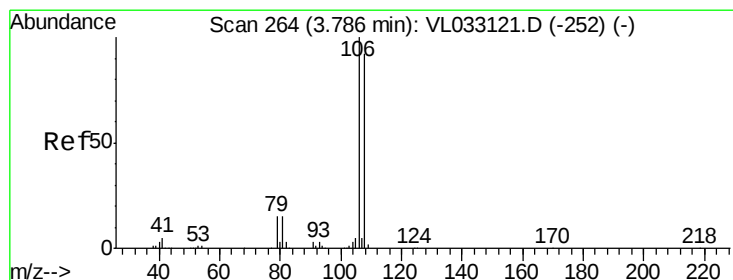
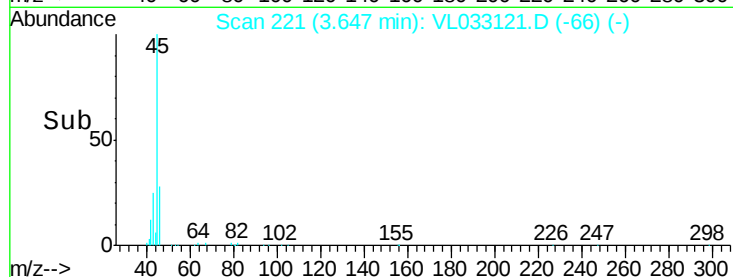
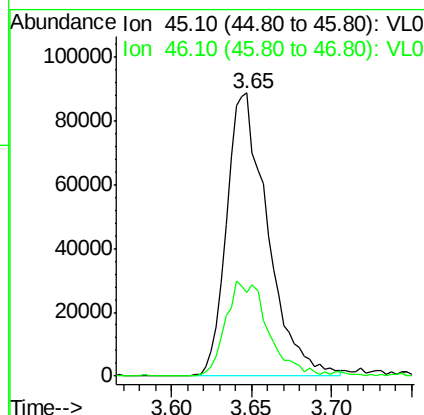
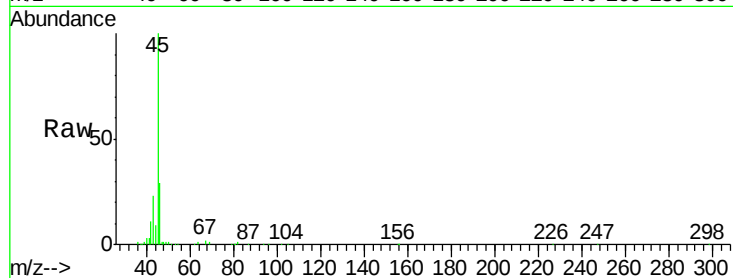
#13
Ethanol
Concen: 7.516 ppbv
RT: 3.65 min Scan# 221
Delta R.T. -0.00 min
Lab File: VL033121.D
Acq: 28 Jan 2019 21:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 45 Resp: 155549
Ion Ratio Lower Upper
45 100
46 35.5 15.0 60.2

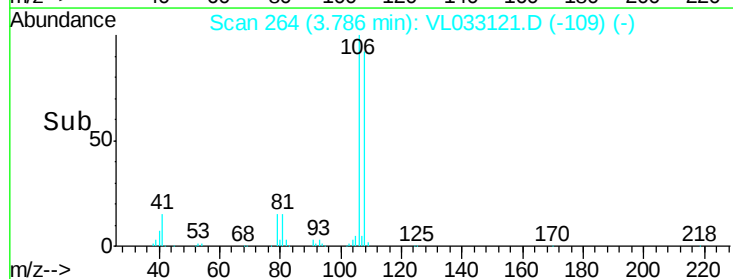
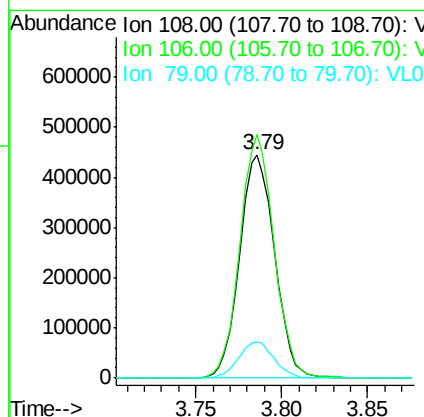
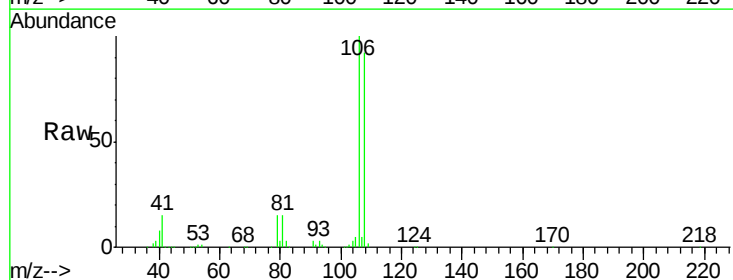
Manual Integrations
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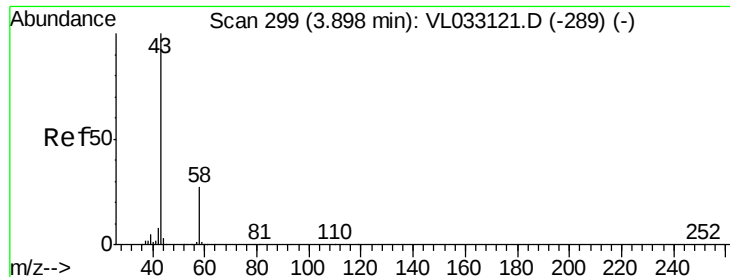
apatel
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#14
Bromoethene
Concen: 8.960 ppbv
RT: 3.79 min Scan# 264
Delta R.T. -0.00 min
Lab File: VL033121.D
Acq: 28 Jan 2019 21:14

Tgt Ion: 108 Resp: 631516
Ion Ratio Lower Upper
108 100
106 107.0 85.5 128.3
79 16.9 13.8 20.6





#15

Acetone

Concen: 7.378 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.00 min

Lab File: VL033121.D

Acq: 28 Jan 2019 21:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 1253216

Ion Ratio Lower Upper

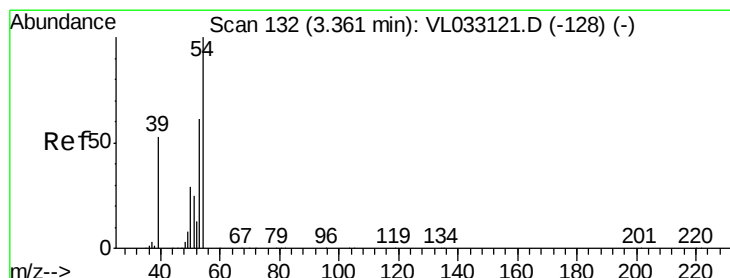
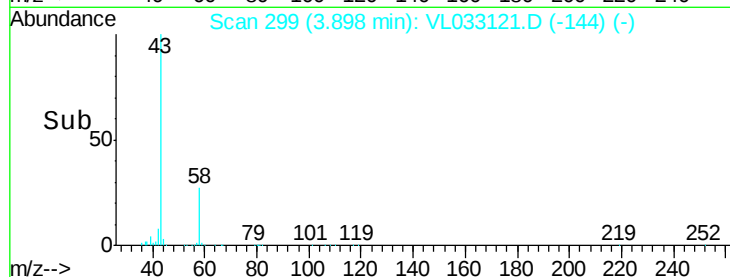
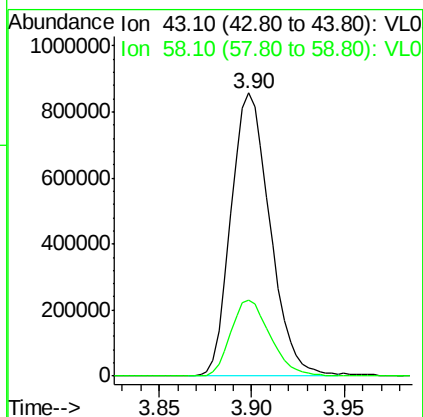
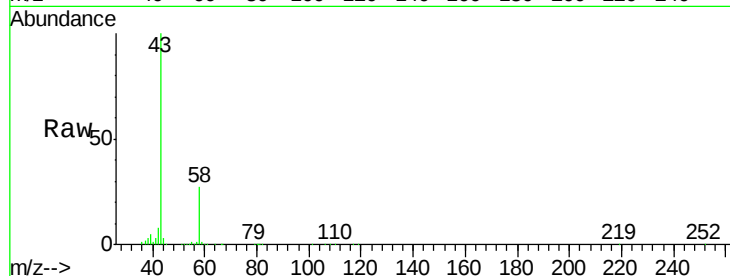
43 100

58 27.3 21.1 31.7

Manual Integrations
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#16

1,3-Butadiene

Concen: 10.036 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033121.D

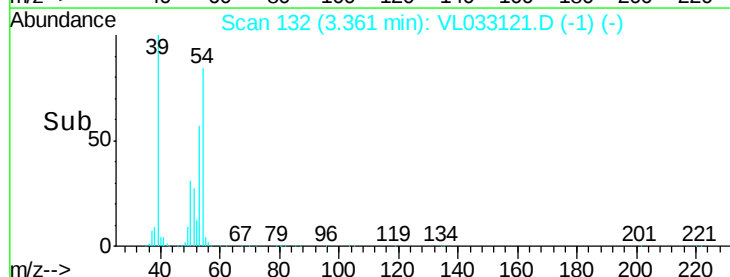
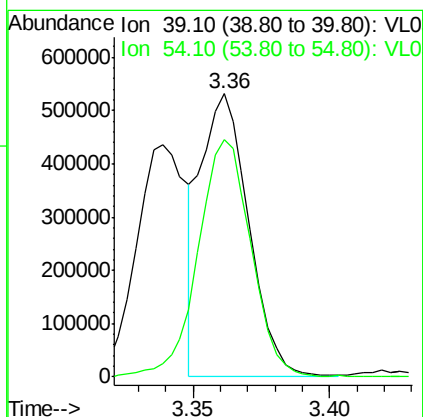
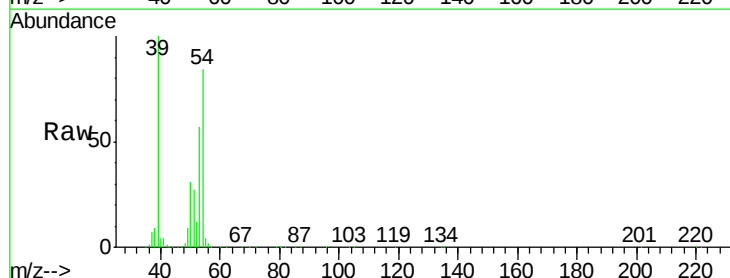
Acq: 28 Jan 2019 21:14

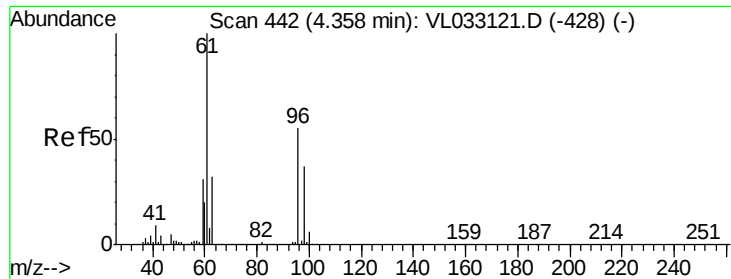
Tgt Ion: 39 Resp: 642828

Ion Ratio Lower Upper

39 100

54 94.1 80.0 120.0





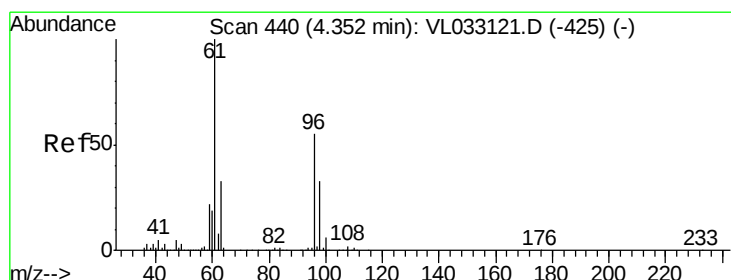
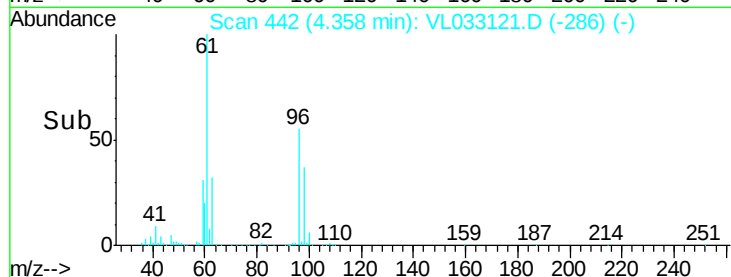
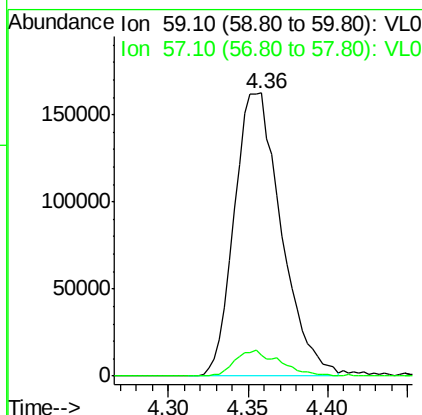
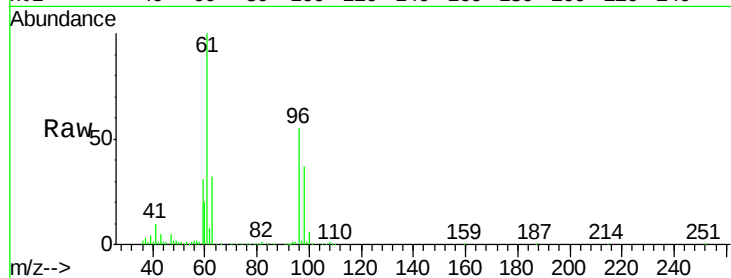
#17
 tert-Butyl alcohol
 Concen: 9.057 ppbv
 RT: 4.36 min Scan# 442
 Delta R.T. 0.00 min
 Lab File: VL033121.D
 Acq: 28 Jan 2019 21:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 59 Resp: 325896
 Ion Ratio Lower Upper
 59 100
 57 9.0 7.4 11.2

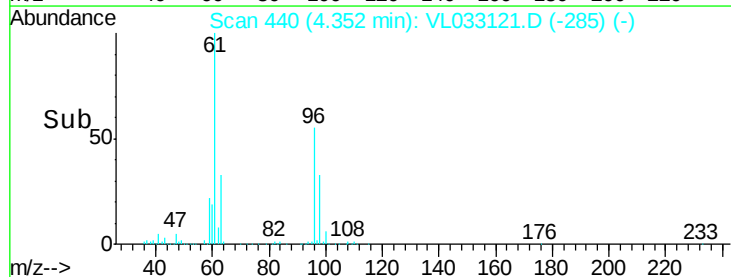
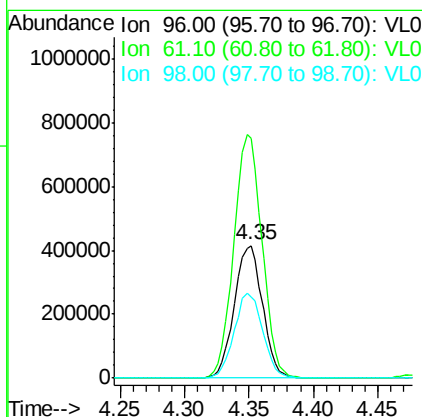
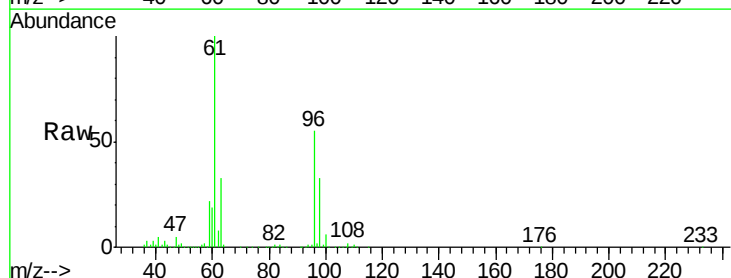
Manual Integrations
 APPROVED

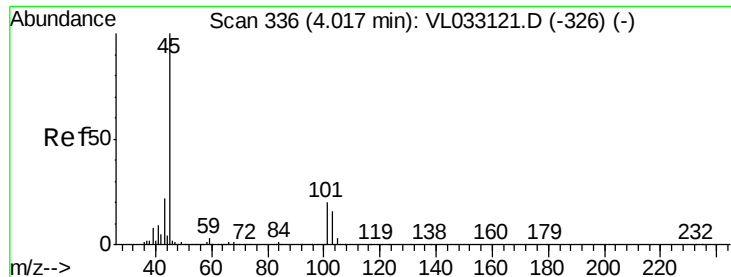
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#18
 1,1-Dichloroethene
 Concen: 8.595 ppbv
 RT: 4.35 min Scan# 440
 Delta R.T. -0.00 min
 Lab File: VL033121.D
 Acq: 28 Jan 2019 21:14

Tgt Ion: 96 Resp: 631741
 Ion Ratio Lower Upper
 96 100
 61 181.6 142.6 213.8
 98 60.8 51.4 77.0





#19

Isopropyl Alcohol

Concen: 8.223 ppbv

RT: 4.02 min Scan# 336

Delta R.T. -0.00 min

Lab File: VL033121.D

Acq: 28 Jan 2019 21:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 45 Resp: 961581

Ion Ratio Lower Upper

45 100

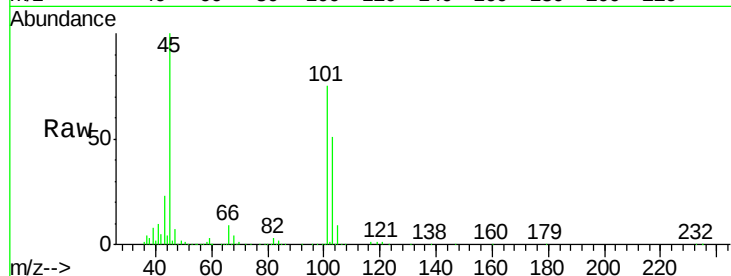
58 1.6 1.4 2.2

Manual Integrations

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.02

600000

500000

400000

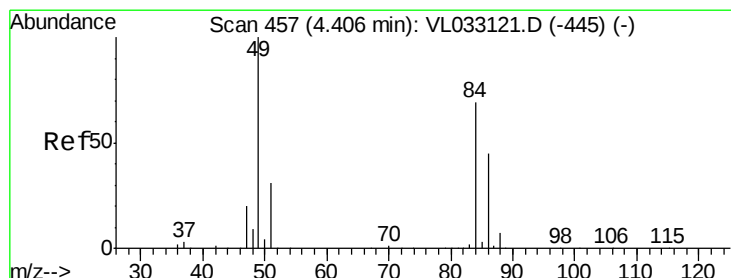
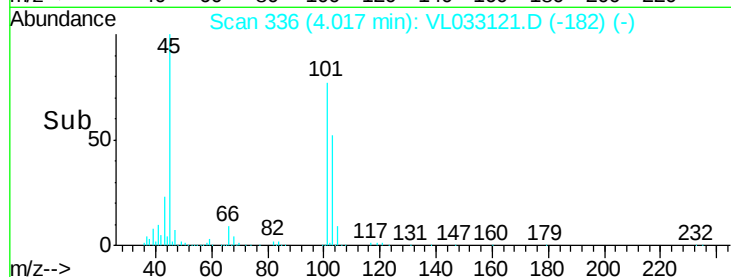
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 7.652 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: VL033121.D

Acq: 28 Jan 2019 21:14

Tgt Ion: 84 Resp: 541851

Ion Ratio Lower Upper

84 100

49 144.7 113.8 170.6

51 45.0 34.5 51.7

86 65.2 51.8 77.6

Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

800000

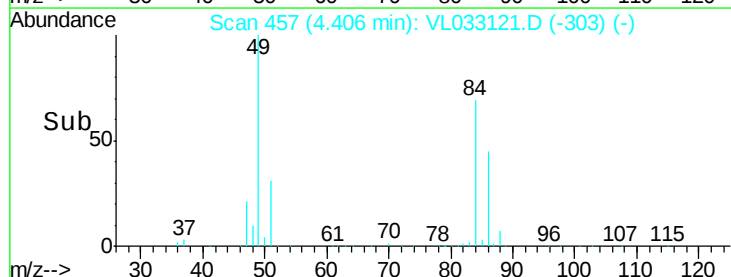
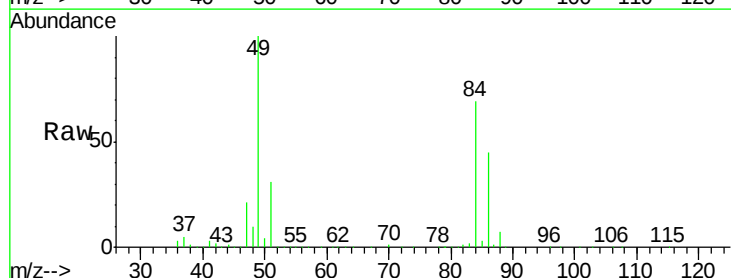
600000

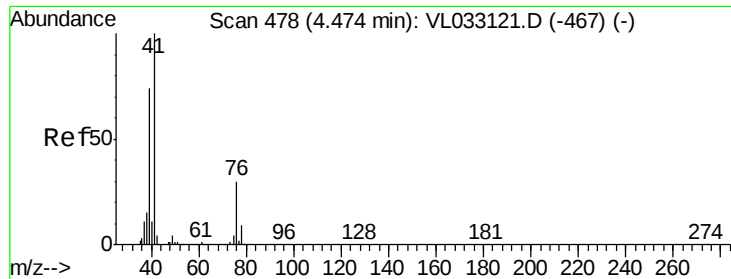
400000

200000

0

Time-->





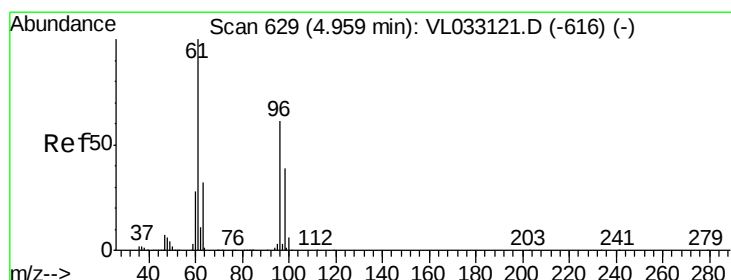
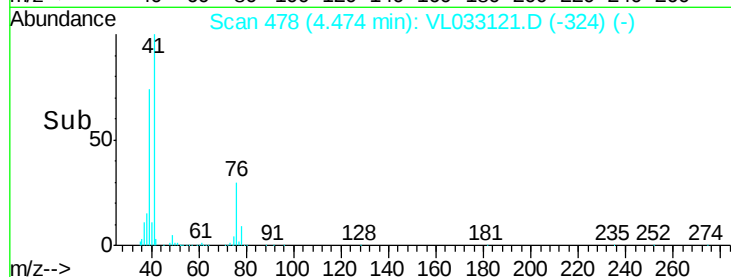
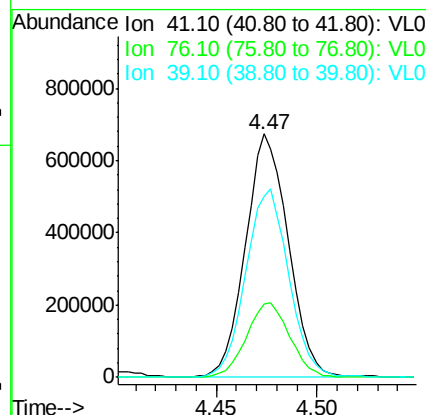
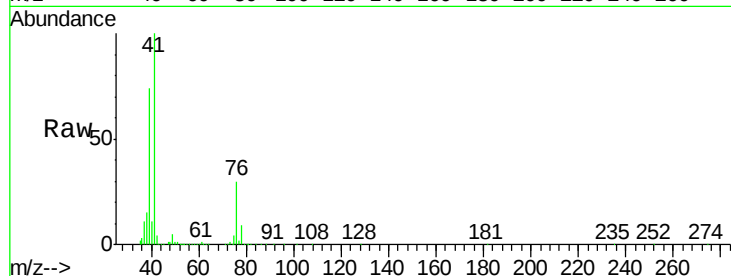
#21
Allvl Chloride
Concen: 9.474 ppbv
RT: 4.47 min Scan# 478
Delta R.T. -0.00 min
Lab File: VL033121.D
Acq: 28 Jan 2019 21:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
41	100		
76	31.3	24.6	37.0
39	78.9	63.3	94.9

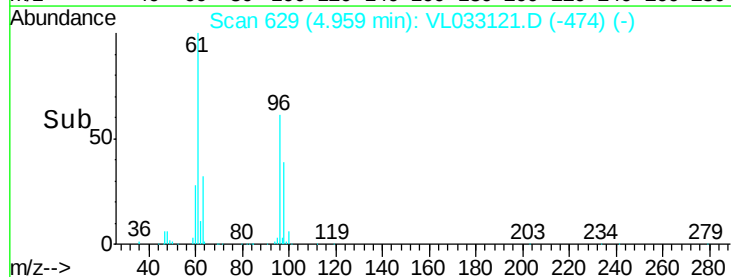
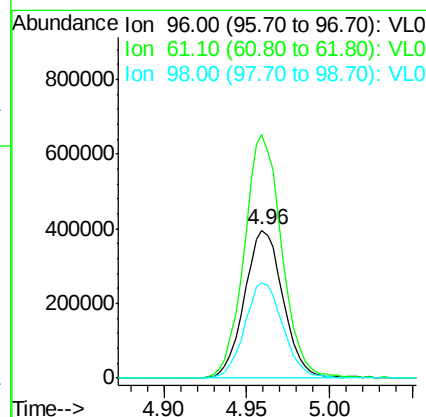
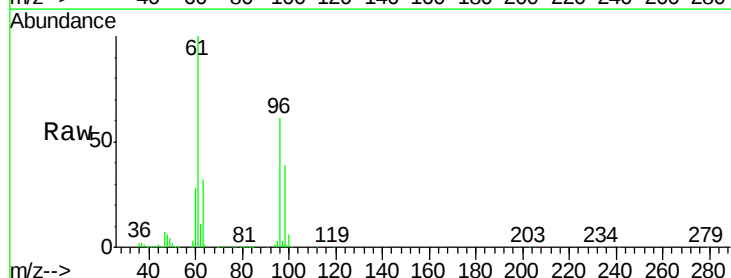
Manual Integrations
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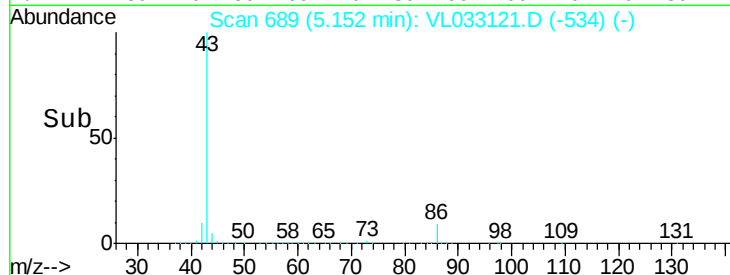
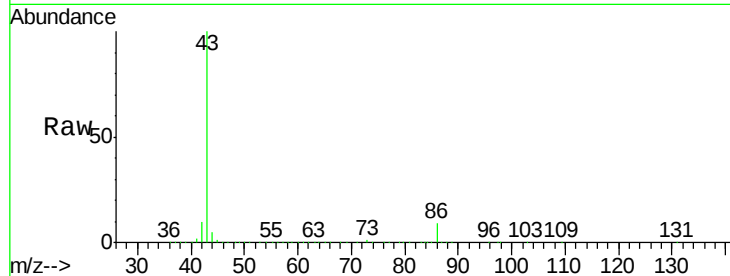
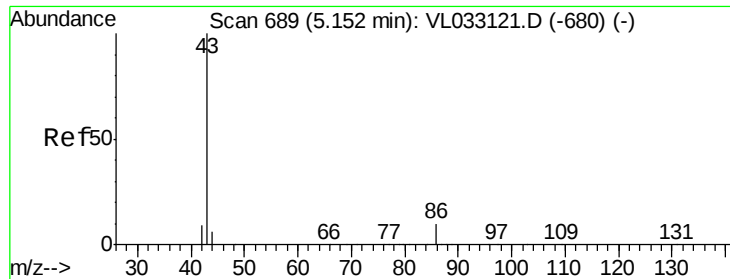
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#22
trans-1,2-Dichloroethene
Concen: 8.761 ppbv
RT: 4.96 min Scan# 629
Delta R.T. -0.00 min
Lab File: VL033121.D
Acq: 28 Jan 2019 21:14

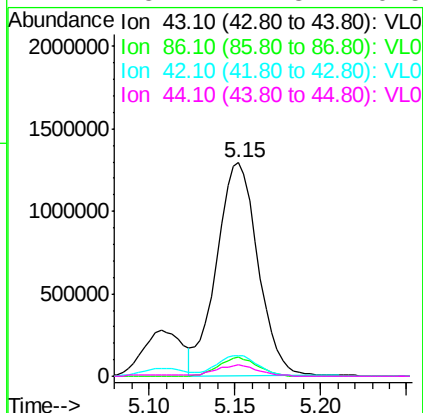
Tgt Ion	Ratio	Lower	Upper
96	100		
61	164.3	127.6	191.4
98	64.4	48.6	73.0





#23
 Vinyl Acetate
 Concen: 10.016 ppbv
 RT: 5.15 min Scan# 689
 Delta R.T. -0.00 min
 Lab File: VL033121.D
 Acq: 28 Jan 2019 21:14

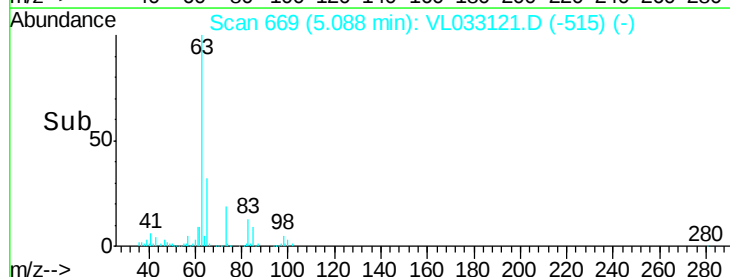
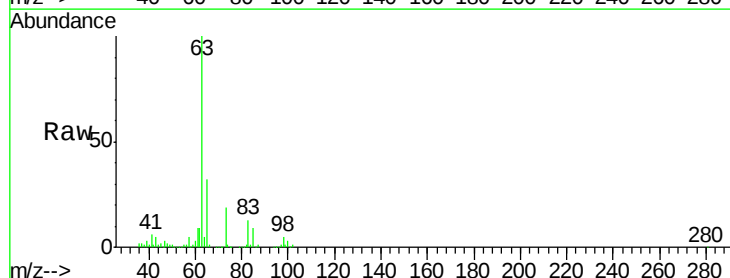
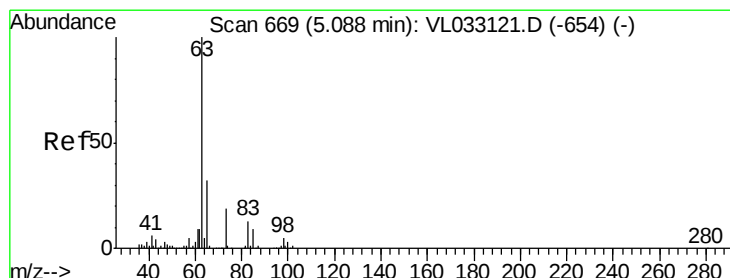
Tot Ion	43	Resp	2164390
Ion	Ratio	Lower	Upper
43	100		
86	9.0	6.7	10.1
42	9.8	8.1	12.1
44	5.1	4.3	6.5



Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

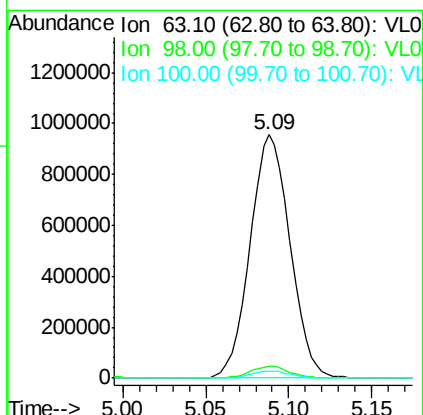
Manual Integrations
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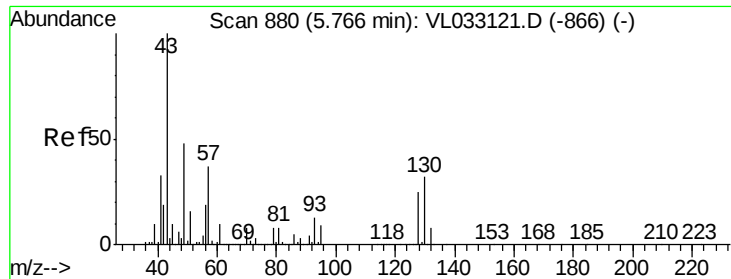
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#24
 1,1-Dichloroethane
 Concen: 8.694 ppbv
 RT: 5.09 min Scan# 669
 Delta R.T. -0.00 min
 Lab File: VL033121.D
 Acq: 28 Jan 2019 21:14

Tgt Ion	63	Resp	1595133
Ion	Ratio	Lower	Upper
63	100		
98	4.8	2.5	7.4
100	3.0	1.4	4.2





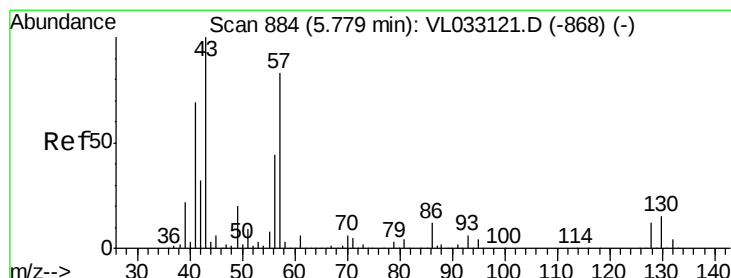
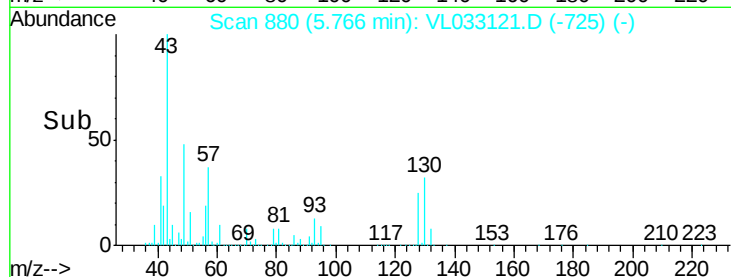
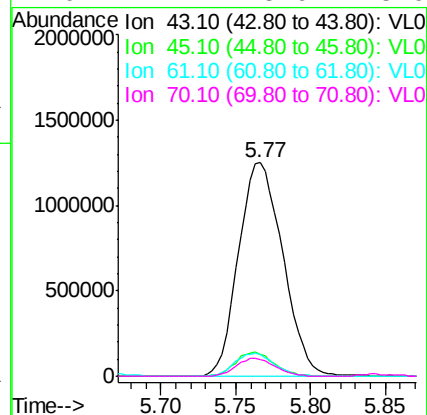
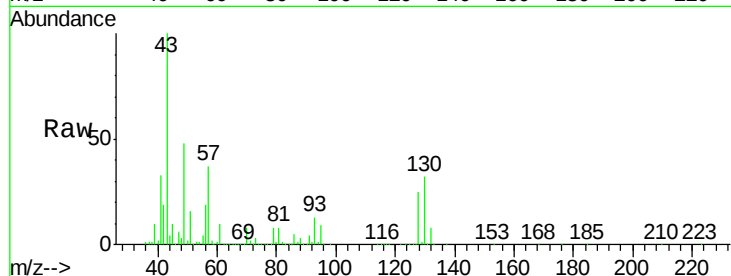
#25
Ethyl Acetate
Concen: 8.954 ppbv
RT: 5.77 min Scan# 880
Delta R.T. -0.00 min
Lab File: VL033121.D
Acq: 28 Jan 2019 21:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.0	12.0
61	9.6	7.6	11.4
70	7.4	5.9	8.9

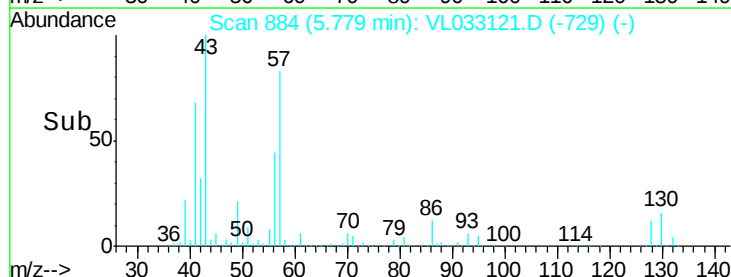
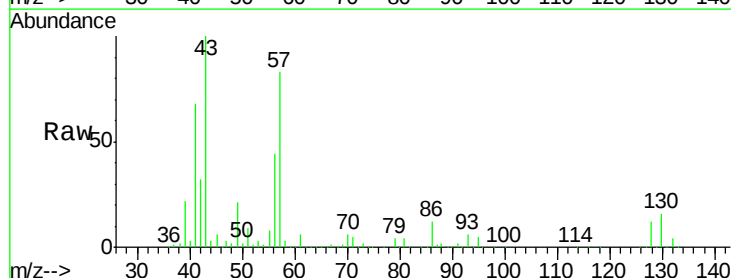
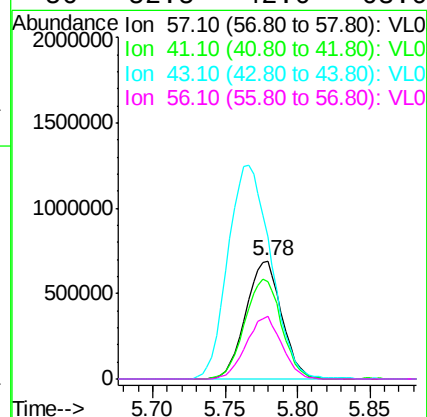
Manual Integrations
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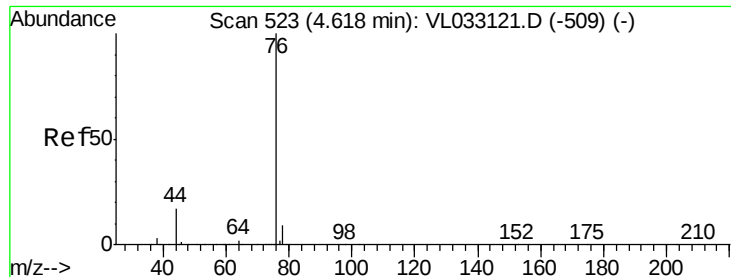
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#26
Hexane
Concen: 8.799 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033121.D
Acq: 28 Jan 2019 21:14

Tgt Ion	Ratio	Lower	Upper
57	100		
41	86.9	69.9	104.9
43	217.4	169.0	253.4
56	52.5	42.0	63.0





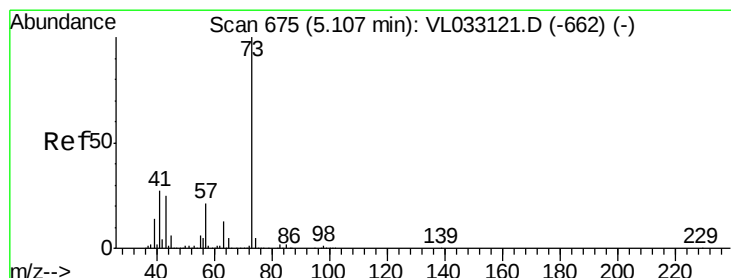
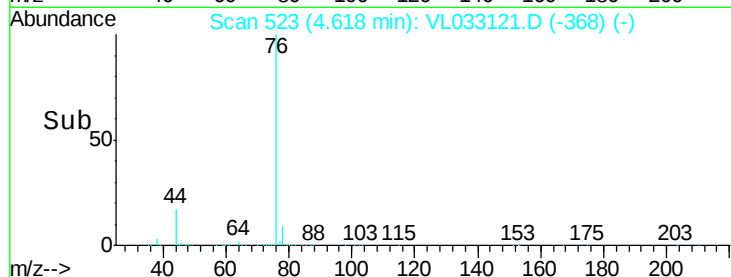
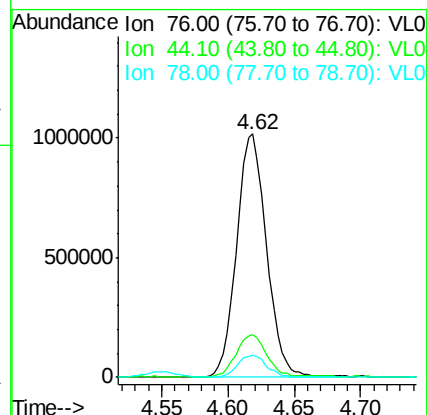
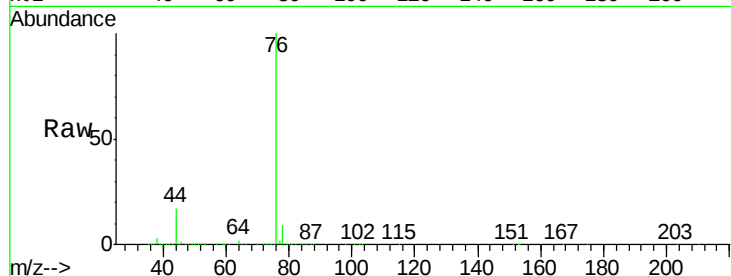
#27
Carbon Disulfide
Concen: 9.598 ppbv
RT: 4.62 min Scan# 523
Delta R.T. -0.00 min
Lab File: VL033121.D
Acq: 28 Jan 2019 21:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
76	100		
44	17.8	15.0	22.4
78	9.2	7.6	11.4

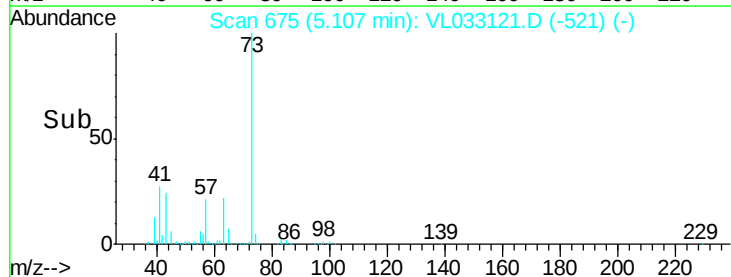
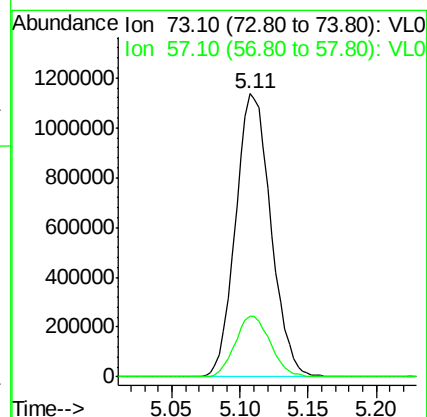
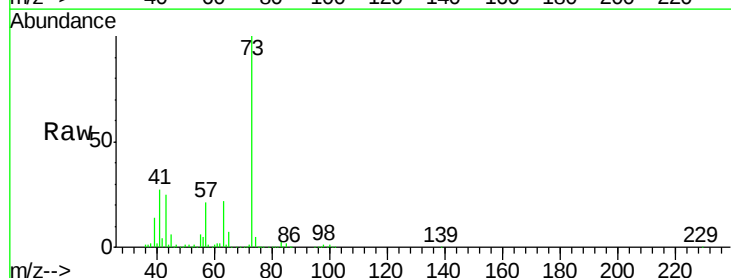
Manual Integrations
APPROVED

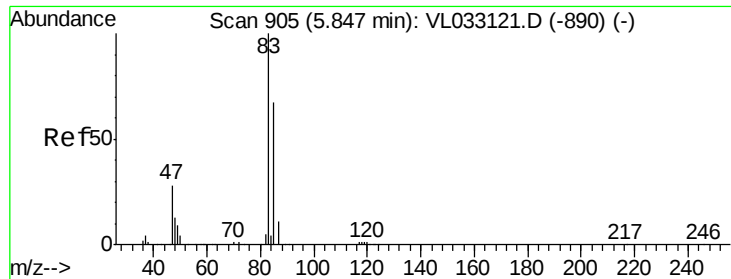
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#28
Methyl tert-Butyl Ether
Concen: 9.666 ppbv
RT: 5.11 min Scan# 675
Delta R.T. -0.00 min
Lab File: VL033121.D
Acq: 28 Jan 2019 21:14

Tgt Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.6	26.4





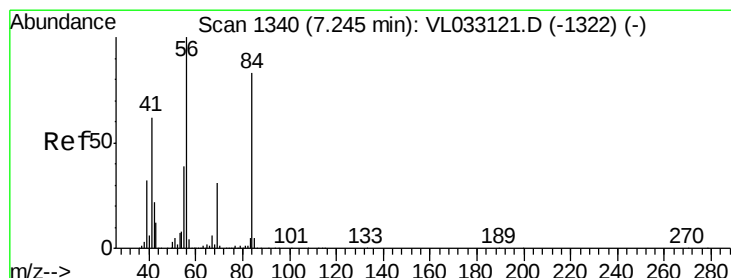
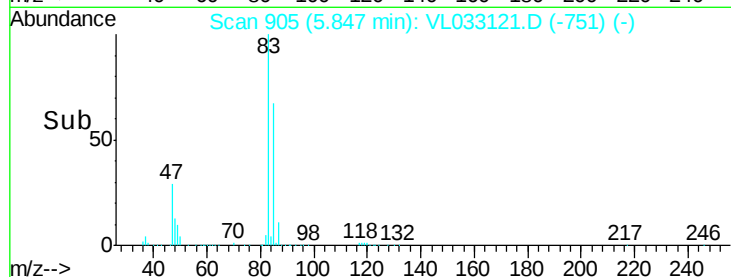
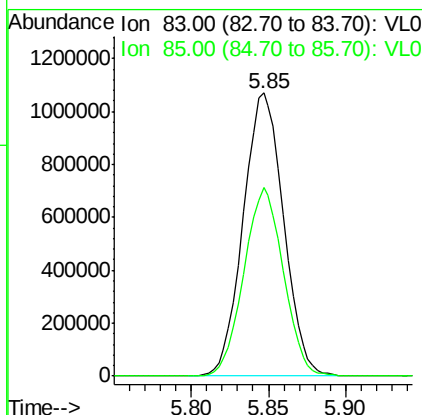
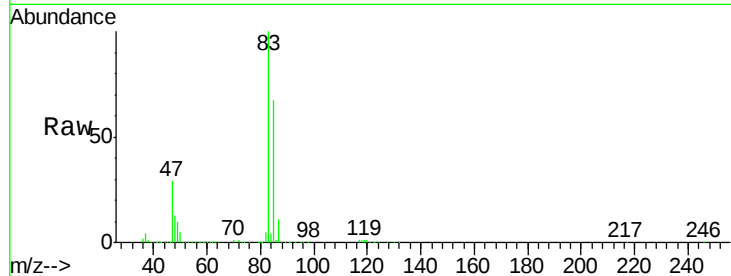
#29
Chloroform
Concen: 8.445 ppbv
RT: 5.85 min Scan# 905
Delta R.T. -0.00 min
Lab File: VL033121.D
Acq: 28 Jan 2019 21:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 83 Resp: 1945560
Ion Ratio Lower Upper
83 100
85 66.5 50.4 75.6

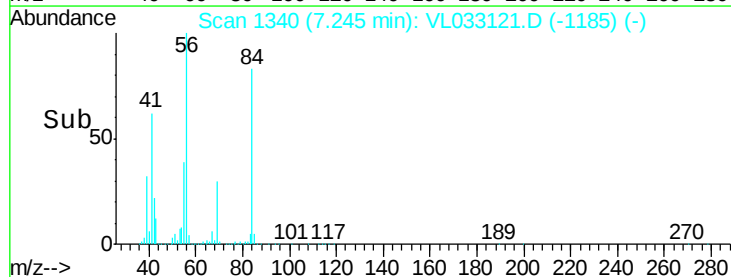
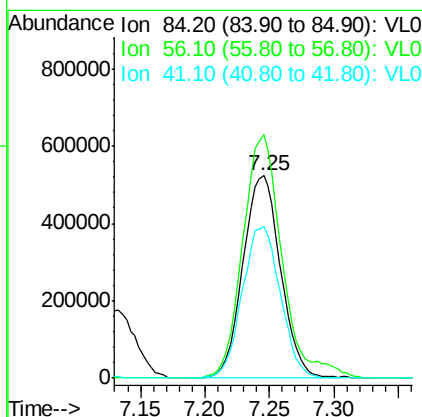
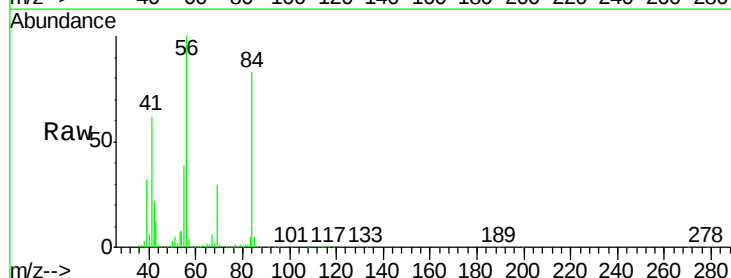
Manual Integrations
APPROVED

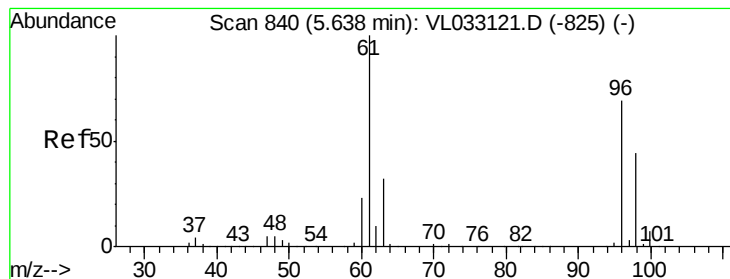
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#30
Cyclohexane
Concen: 10.546 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VL033121.D
Acq: 28 Jan 2019 21:14

Tgt Ion: 84 Resp: 1063065
Ion Ratio Lower Upper
84 100
56 126.1 102.4 153.6
41 76.2 62.7 94.1





#31

cis-1,2-Dichloroethene

Concen: 9.749 ppbv

RT: 5.64 min Scan# 840

Delta R.T. -0.00 min

Lab File: VL033121.D

Acq: 28 Jan 2019 21:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 61 Resp: 1223847

Ion Ratio Lower Upper

61 100

96 69.1 57.6 86.4

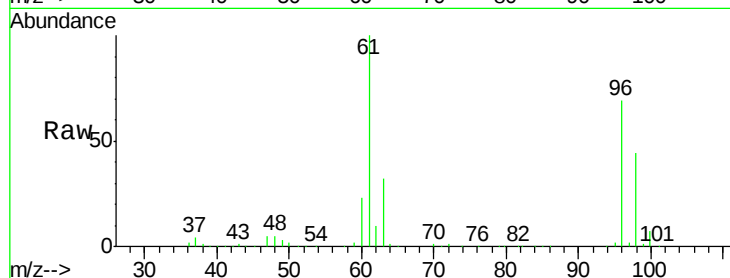
98 44.3 37.0 55.4

Manual Integrations

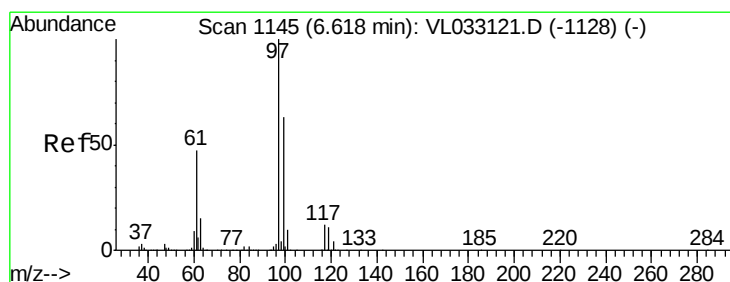
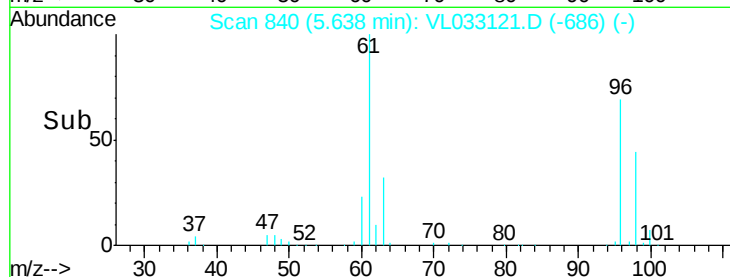
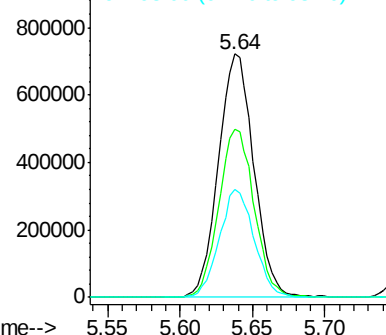
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Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 8.520 ppbv

RT: 6.62 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VL033121.D

Acq: 28 Jan 2019 21:14

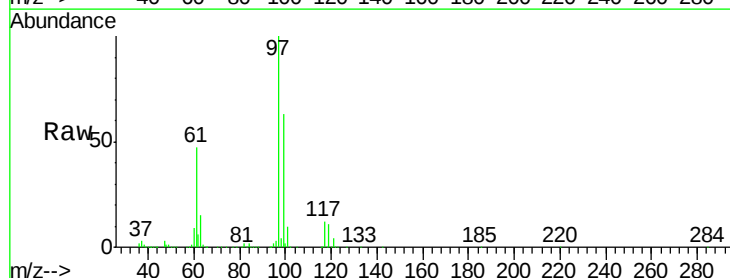
Tgt Ion: 97 Resp: 1992241

Ion Ratio Lower Upper

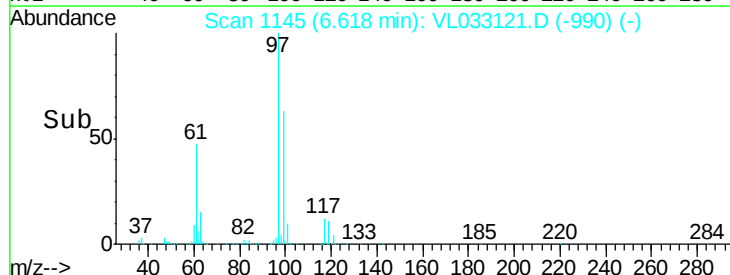
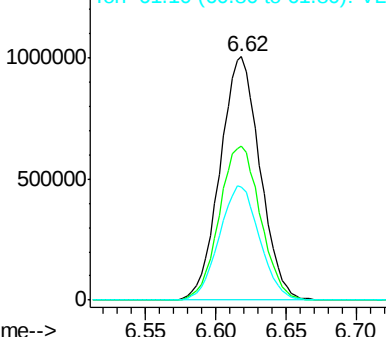
97 100

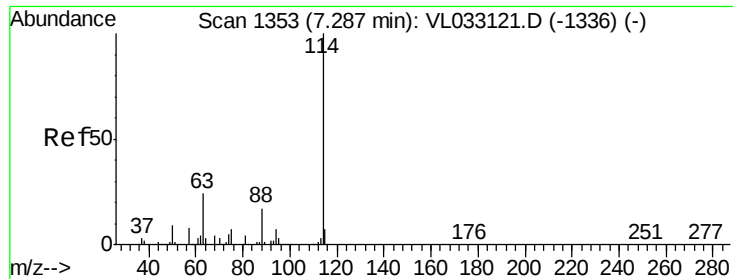
99 65.2 51.7 77.5

61 47.5 38.6 57.8



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0





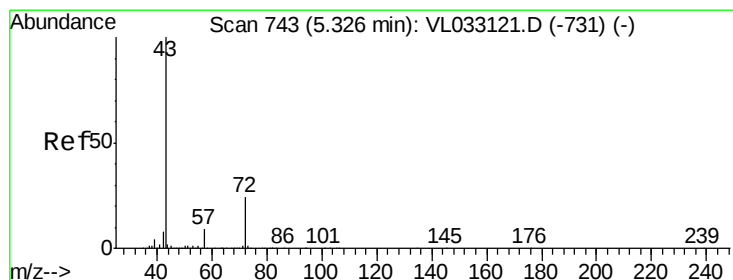
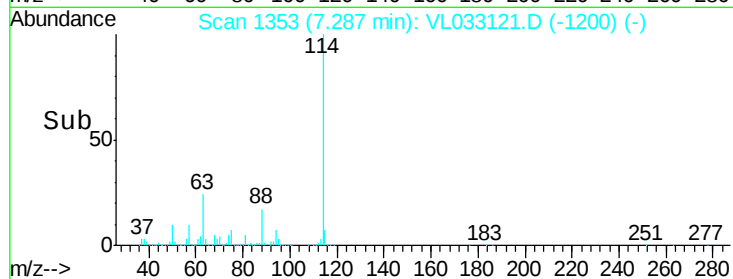
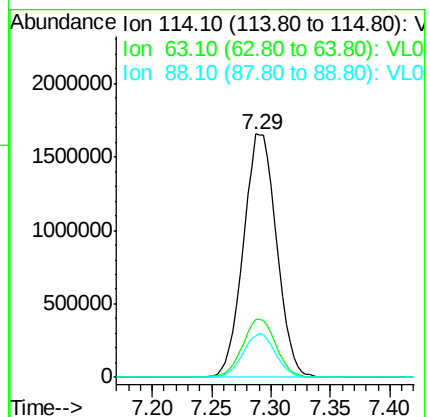
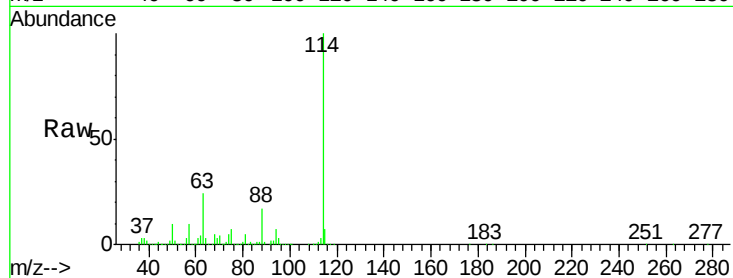
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033121.D
 Acq: 28 Jan 2019 21:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.3	19.8	29.8
88	17.5	14.2	21.2

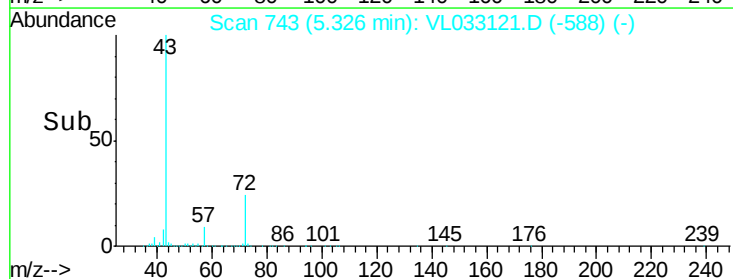
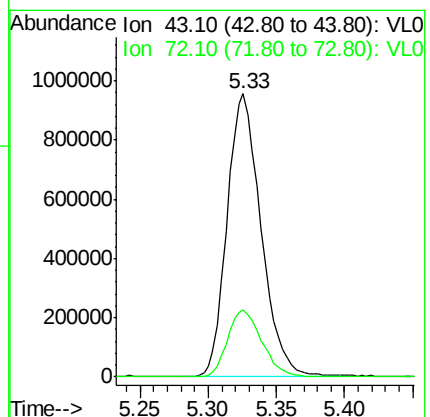
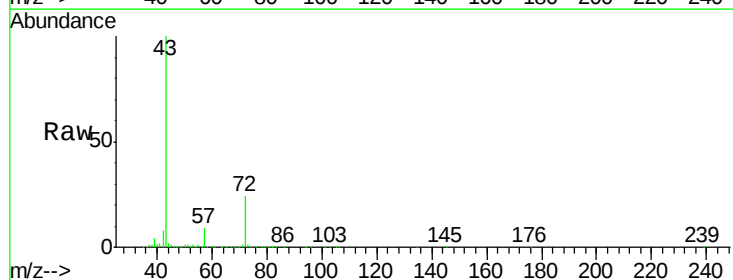
Manual Integrations
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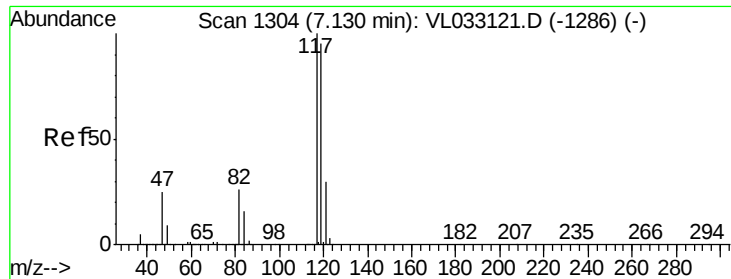
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#34
 2-Butanone
 Concen: 8.834 ppbv
 RT: 5.33 min Scan# 743
 Delta R.T. -0.00 min
 Lab File: VL033121.D
 Acq: 28 Jan 2019 21:14

Tgt Ion	Ratio	Lower	Upper
43	100		
72	24.0	18.7	28.1





#35

Carbon Tetrachloride

Concen: 8.068 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. -0.00 min

Lab File: VL033121.D

Acq: 28 Jan 2019 21:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:117 Resp: 2219550

Ion Ratio Lower Upper

117 100

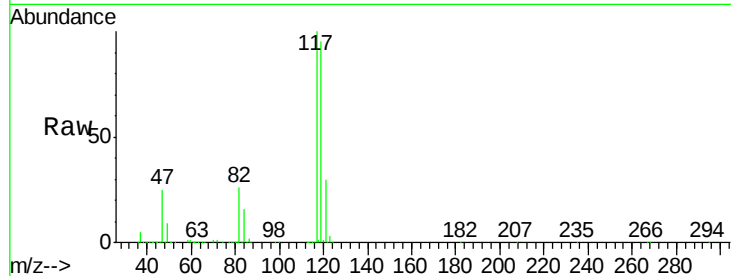
119 94.9 75.8 113.6

121 29.8 24.6 36.8

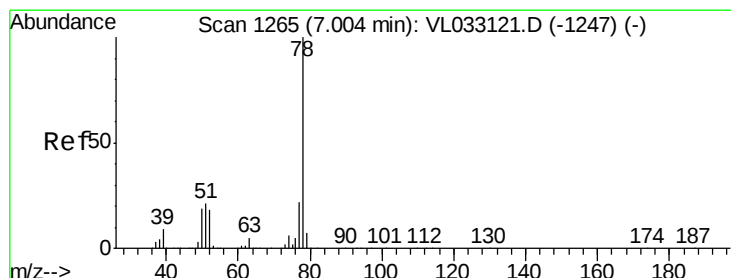
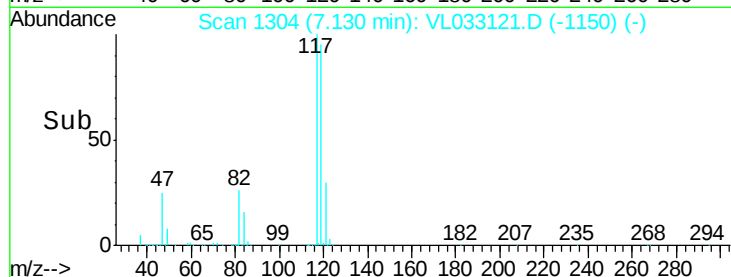
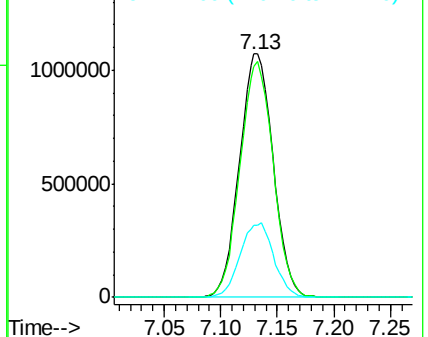
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Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.417 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. -0.00 min

Lab File: VL033121.D

Acq: 28 Jan 2019 21:14

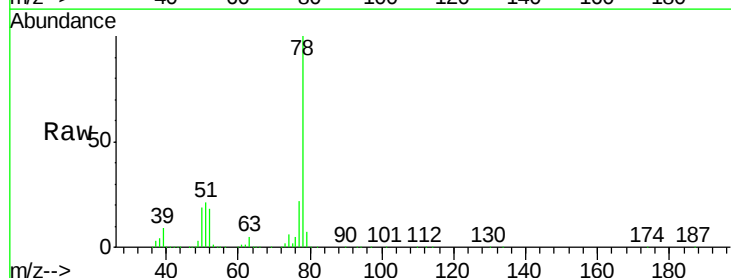
Tgt Ion: 78 Resp: 2470788

Ion Ratio Lower Upper

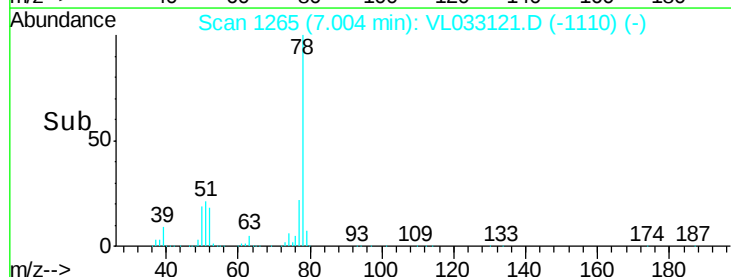
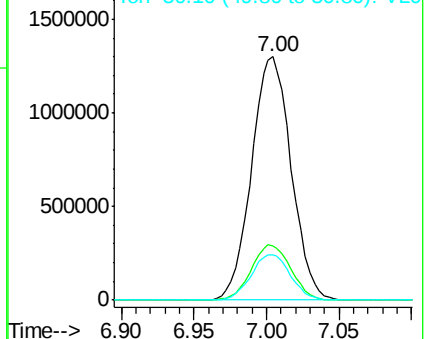
78 100

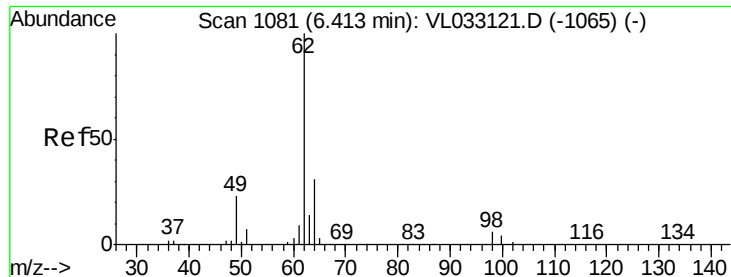
77 22.5 18.5 27.7

50 18.8 15.4 23.2



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





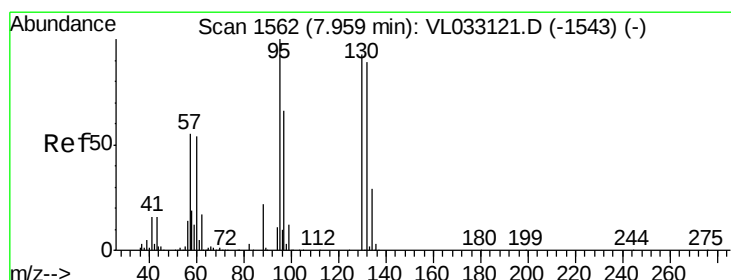
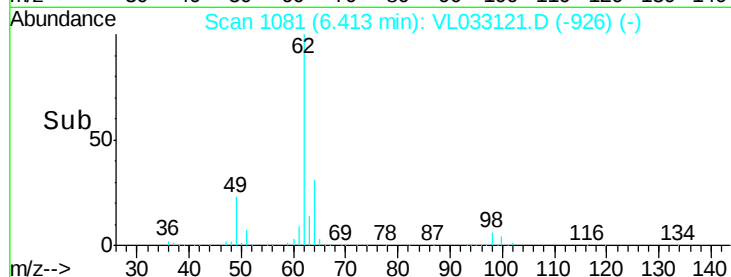
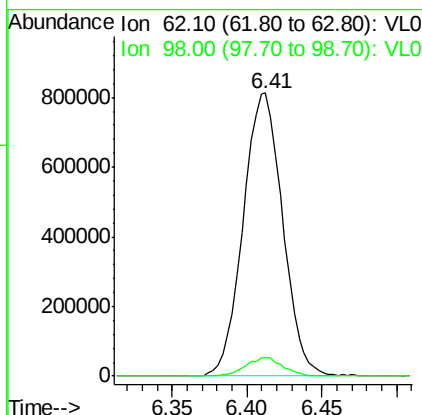
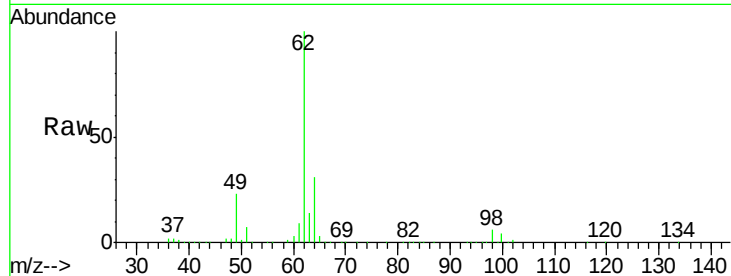
#37
1,2-Dichloroethane
Concen: 8.150 ppbv
RT: 6.41 min Scan# 1081
Delta R.T. -0.00 min
Lab File: VL033121.D
Acq: 28 Jan 2019 21:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 62 Resp: 1492866
Ion Ratio Lower Upper
62 100
98 6.3 4.6 7.0

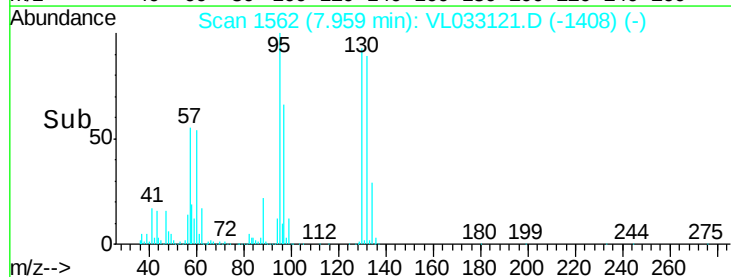
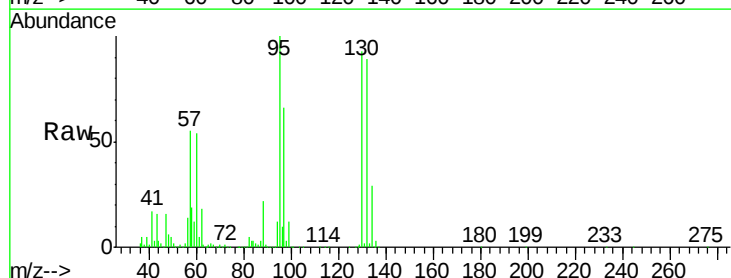
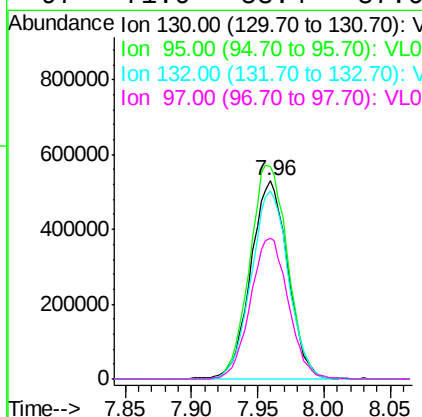
Manual Integrations
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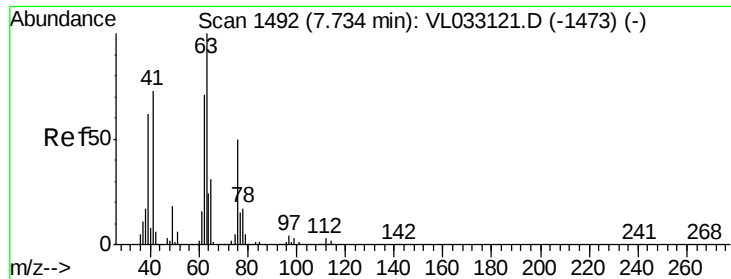
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#38
Trichloroethene
Concen: 9.473 ppbv
RT: 7.96 min Scan# 1562
Delta R.T. -0.00 min
Lab File: VL033121.D
Acq: 28 Jan 2019 21:14

Tgt Ion:130 Resp: 1022418
Ion Ratio Lower Upper
130 100
95 107.5 94.0 141.0
132 95.4 79.7 119.5
97 71.0 58.4 87.6





#39

1,2-Dichloropropane

Concen: 9.396 ppbv

RT: 7.73 min Scan# 1492

Delta R.T. -0.01 min

Lab File: VL033121.D

Acq: 28 Jan 2019 21:14

Instrument :

MSVOA_L

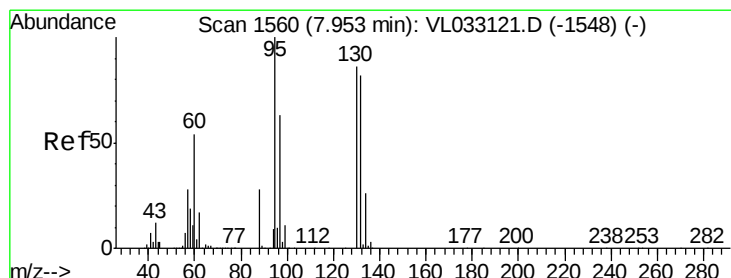
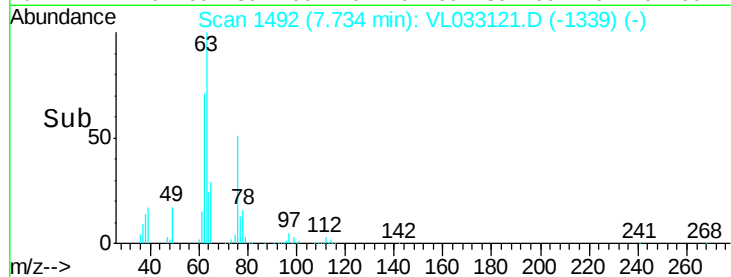
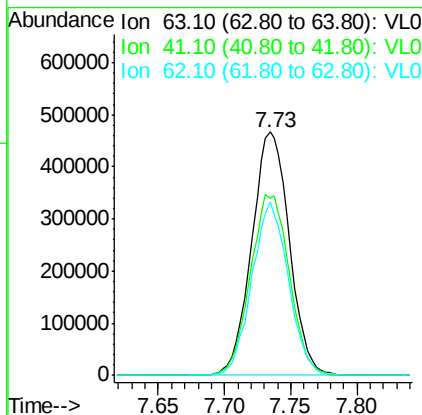
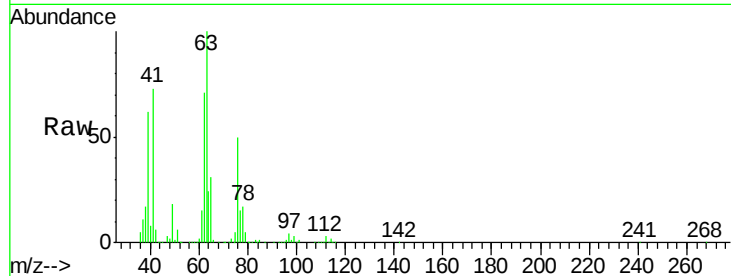
ClientSampleId :

VSTDICCC010

Tot Ion:	63	Resp:	926113
Ion Ratio	Lower	Upper	
63	100		
41	72.8	57.8	86.8
62	70.9	54.6	82.0

Manual Integrations
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#40

1,4-Dioxane

Concen: 9.333 ppbv

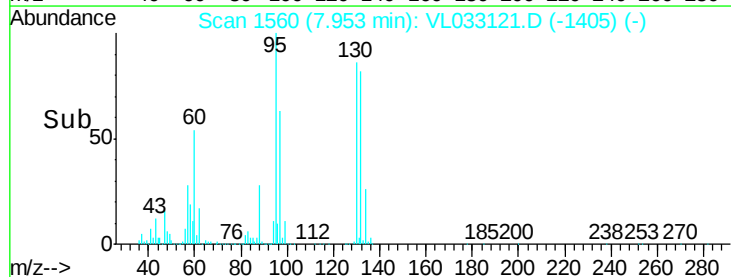
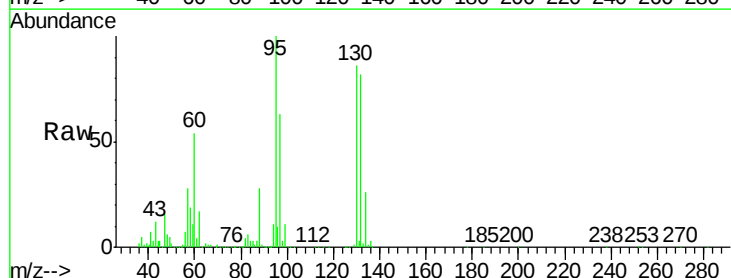
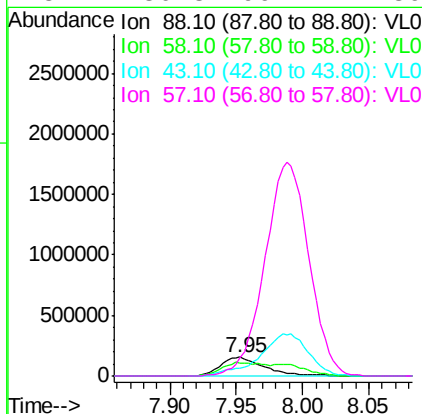
RT: 7.95 min Scan# 1560

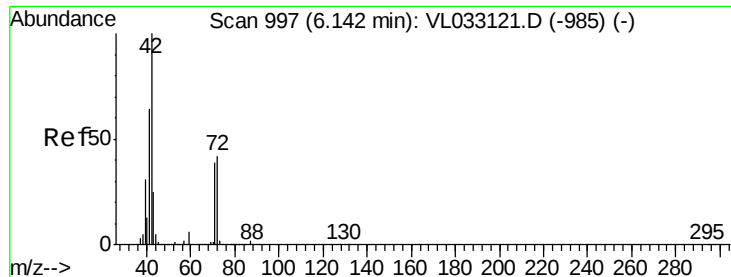
Delta R.T. -0.00 min

Lab File: VL033121.D

Acq: 28 Jan 2019 21:14

Tgt Ion:	88	Resp:	349199
Ion Ratio	Lower	Upper	
88	100		
58	122.7	103.5	155.3
43	255.6	217.8	326.8
57	1180.3	992.7	1489.1





#41

Tetrahydrofuran

Concen: 10.034 ppbv

RT: 6.14 min Scan# 997

Delta R.T. -0.00 min

Lab File: VL033121.D

Acq: 28 Jan 2019 21:14

Instrument :

MSVOA_L

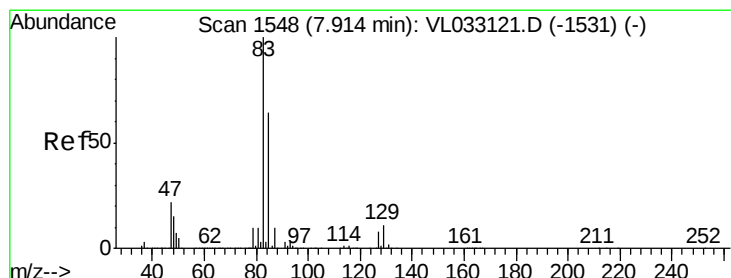
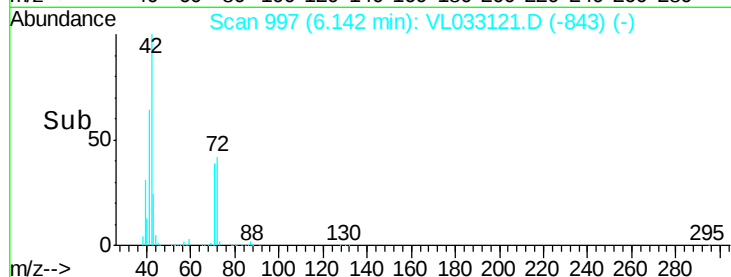
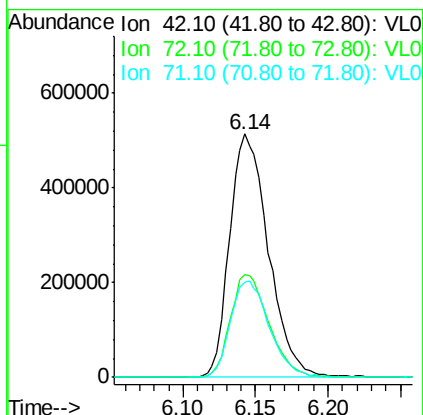
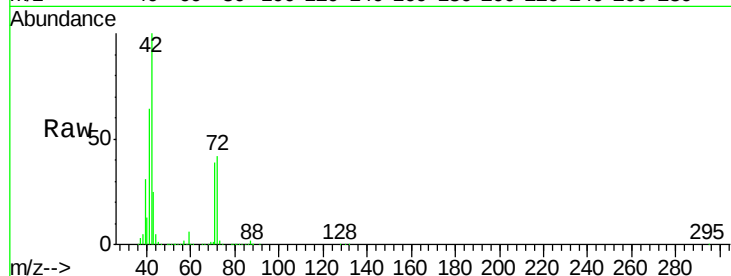
ClientSampleId :

VSTDICCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	42.2	33.8	50.8
71	40.1	31.6	47.4

Manual Integrations
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#42

Bromodichloromethane

Concen: 8.513 ppbv

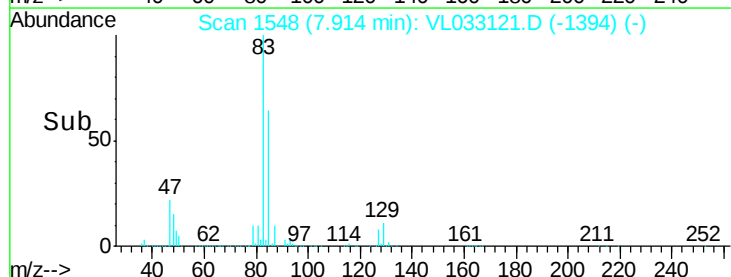
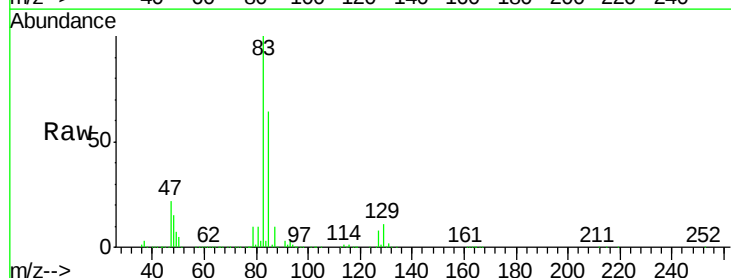
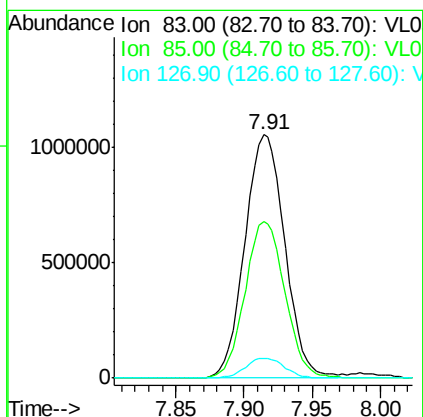
RT: 7.91 min Scan# 1548

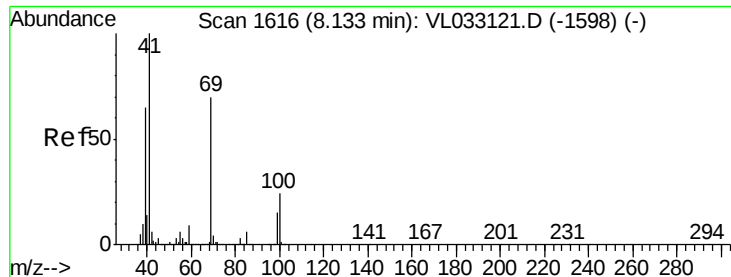
Delta R.T. -0.00 min

Lab File: VL033121.D

Acq: 28 Jan 2019 21:14

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.2	52.9	79.3
127	8.2	6.7	10.1





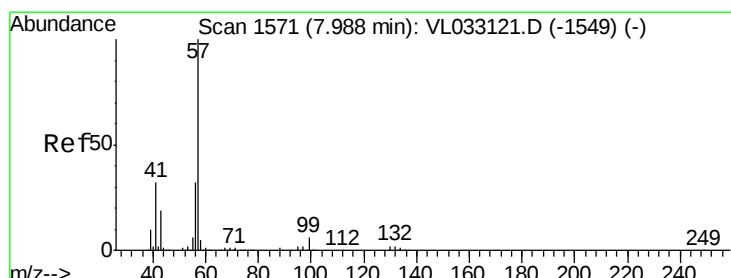
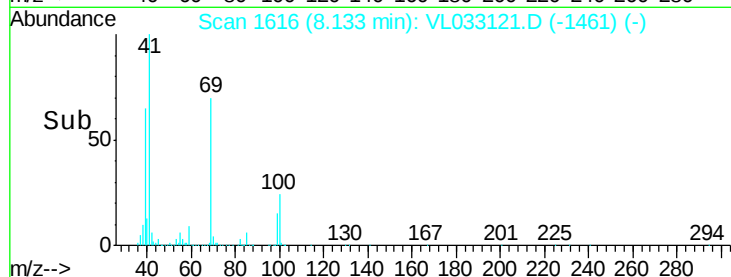
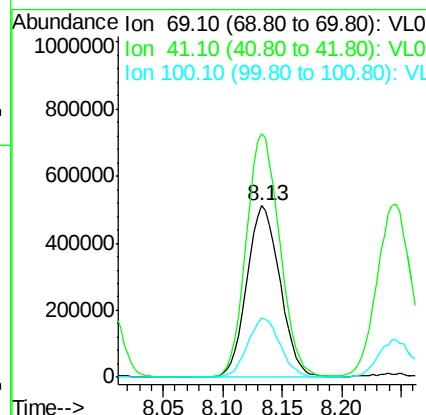
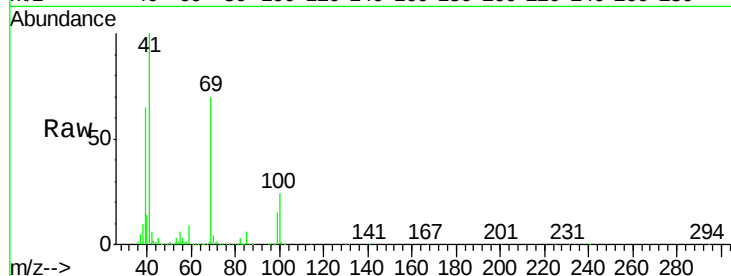
#43
Methvl Methacrilate
Concen: 10.059 ppbv
RT: 8.13 min Scan# 1616
Delta R.T. -0.00 min
Lab File: VL033121.D
Acq: 28 Jan 2019 21:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	142.9	113.9	170.9	
100	33.9	26.2	39.4	

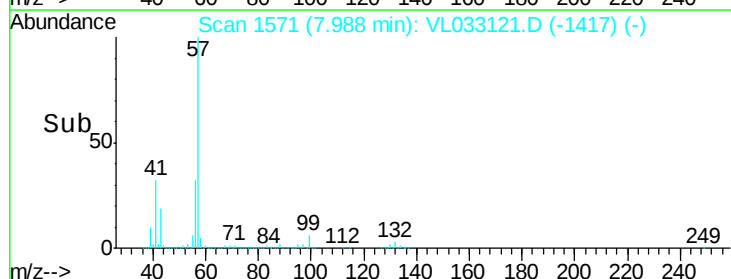
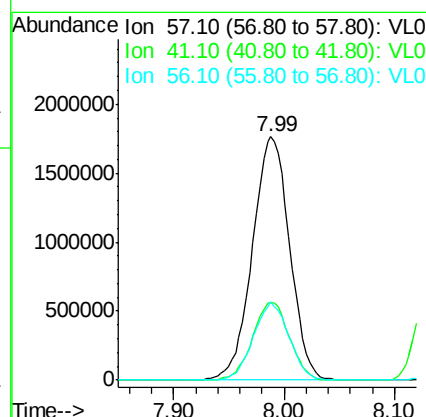
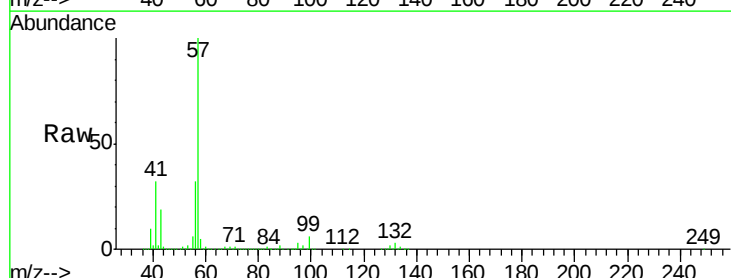
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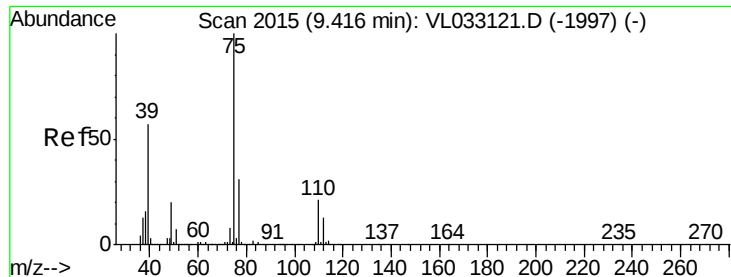
apatel
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#44
2,2,4-Trimethylpentane
Concen: 9.256 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VL033121.D
Acq: 28 Jan 2019 21:14

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	31.9	26.1	39.1	
56	30.7	25.0	37.4	





#45

t-1,3-Dichloropropene

Concen: 11.130 ppbv

RT: 9.42 min Scan# 2015

Delta R.T. -0.00 min

Lab File: VL033121.D

Acq: 28 Jan 2019 21:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 75 Resp: 1363968

Ion Ratio Lower Upper

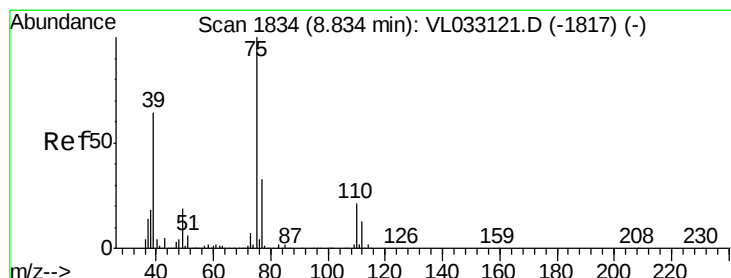
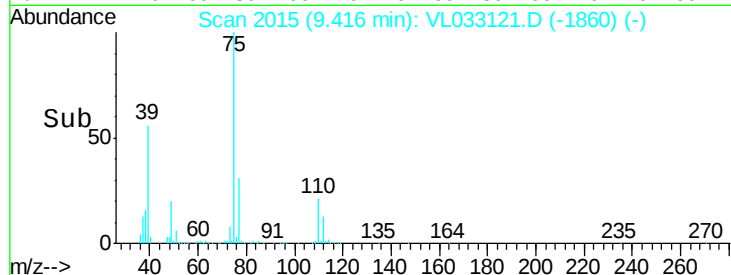
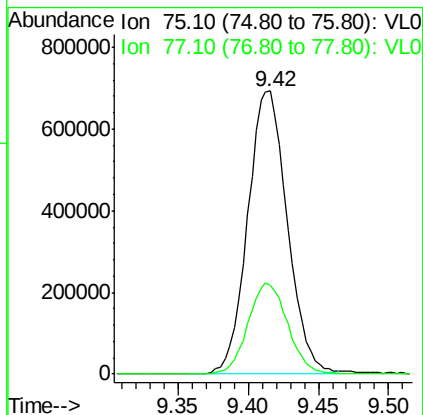
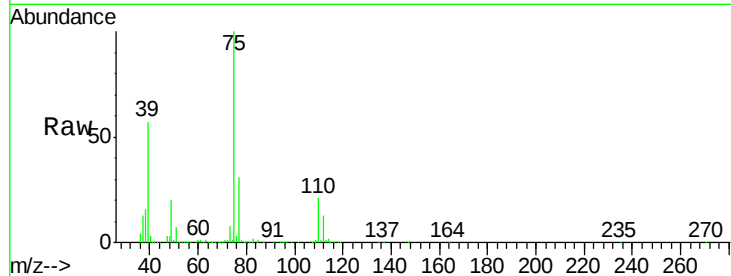
75 100

77 31.3 24.9 37.3

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#46

cis-1,3-Dichloropropene

Concen: 11.054 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. -0.00 min

Lab File: VL033121.D

Acq: 28 Jan 2019 21:14

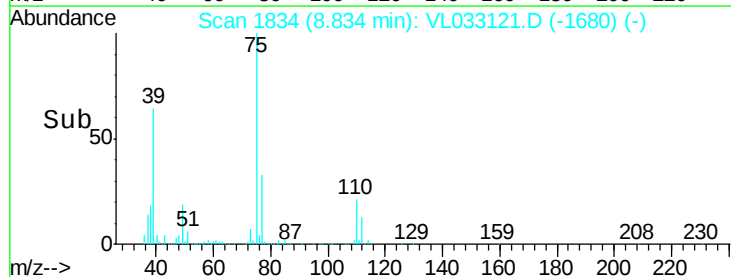
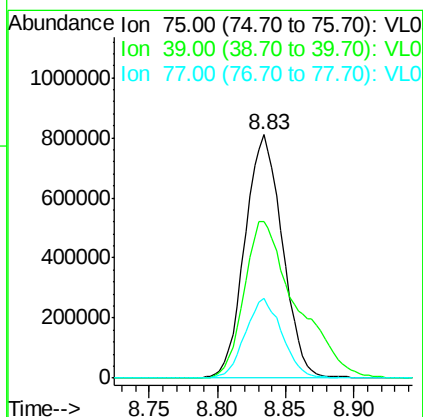
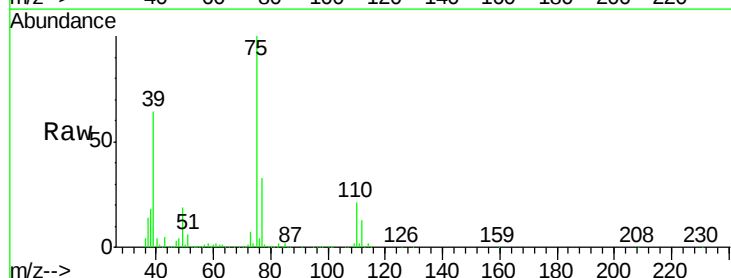
Tgt Ion: 75 Resp: 1546095

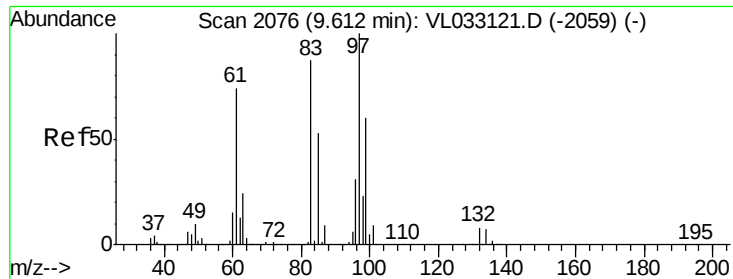
Ion Ratio Lower Upper

75 100

39 64.0 52.0 78.0

77 32.8 25.5 38.3





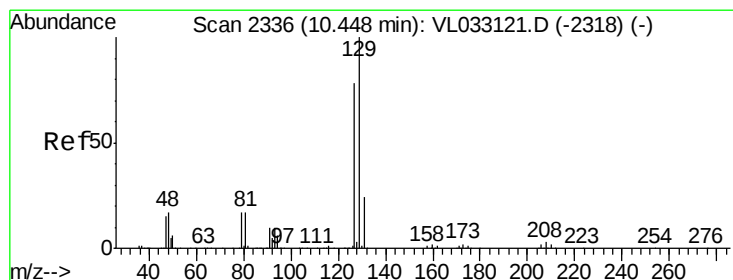
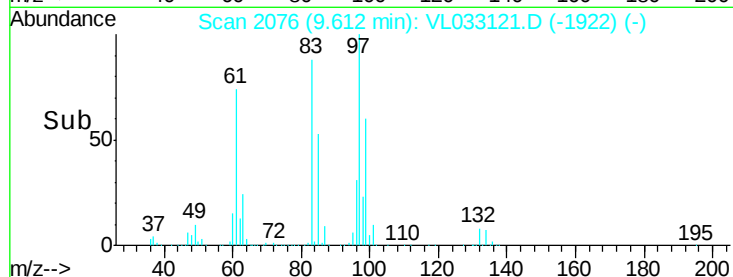
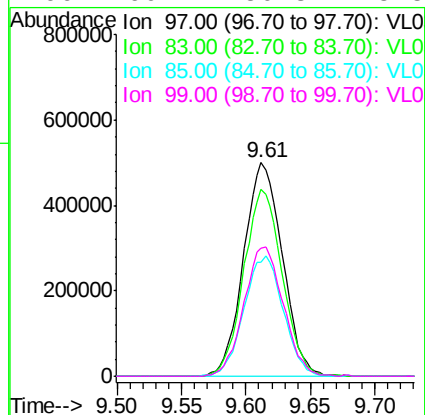
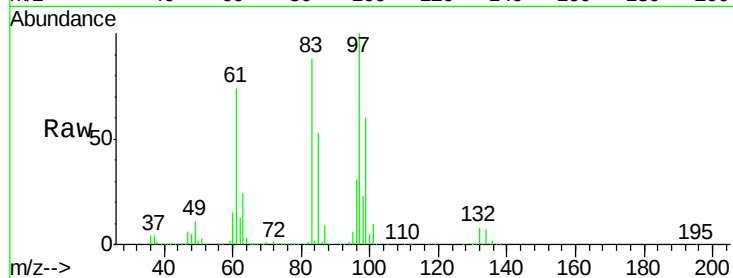
#47
 1,1,2-Trichloroethane
 Concen: 9.097 ppbv
 RT: 9.61 min Scan# 2076
 Delta R.T. -0.00 min
 Lab File: VL033121.D
 Acq: 28 Jan 2019 21:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
97	100		
83	87.5	71.4	107.2
85	53.0	47.2	70.8
99	60.1	50.3	75.5

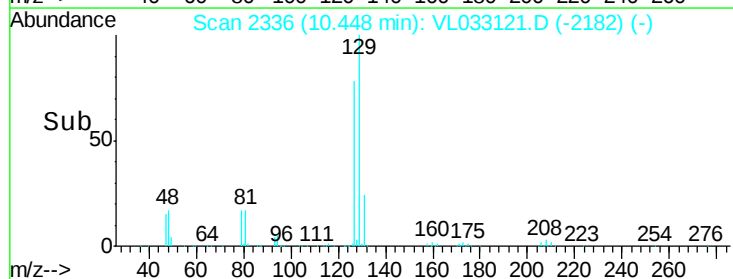
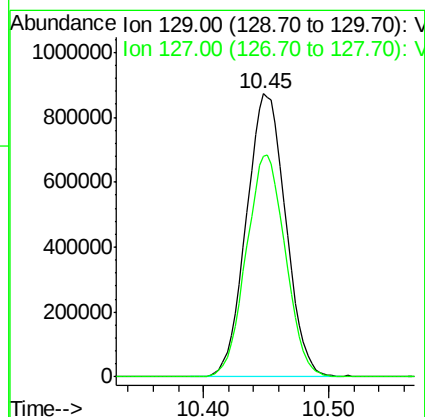
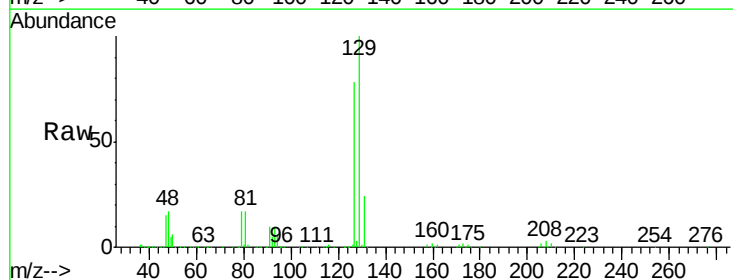
Manual Integrations
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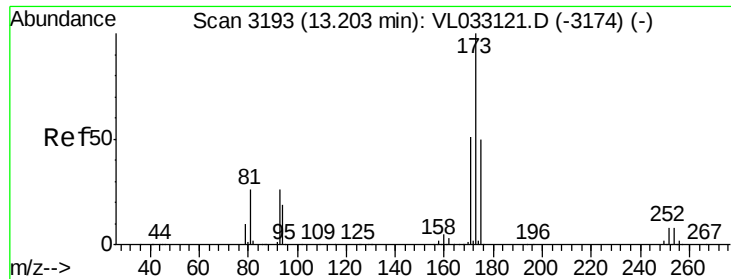
apatel
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#48
 Dibromochloromethane
 Concen: 9.369 ppbv
 RT: 10.45 min Scan# 2336
 Delta R.T. -0.00 min
 Lab File: VL033121.D
 Acq: 28 Jan 2019 21:14

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.1	39.3	117.9





#49

Bromoform

Concen: 9.270 ppbv

RT: 13.20 min Scan# 3193

Delta R.T. 0.00 min

Lab File: VL033121.D

Acq: 28 Jan 2019 21:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:173 Resp: 1647731

Ion Ratio Lower Upper

173 100

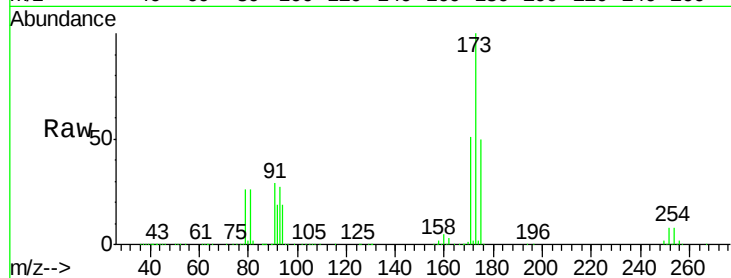
175 48.9 38.9 58.3

171 51.6 41.8 62.6

Manual Integrations
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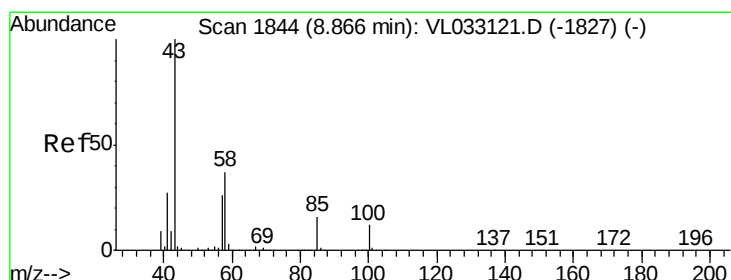
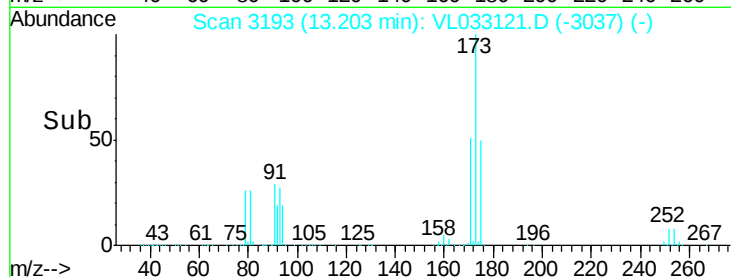
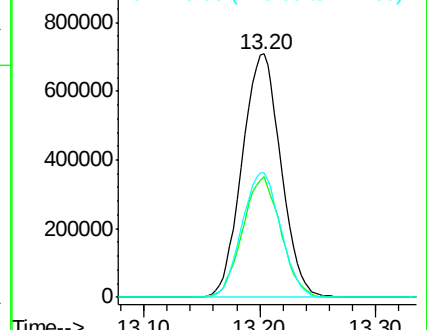
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.815 ppbv

RT: 8.87 min Scan# 1844

Delta R.T. -0.00 min

Lab File: VL033121.D

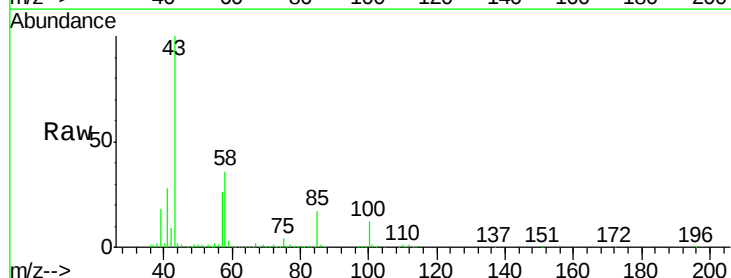
Acq: 28 Jan 2019 21:14

Tgt Ion: 43 Resp: 2314414

Ion Ratio Lower Upper

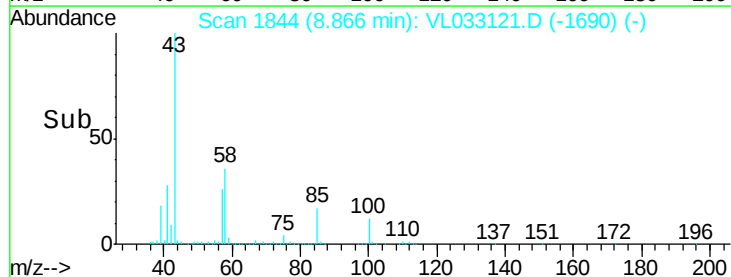
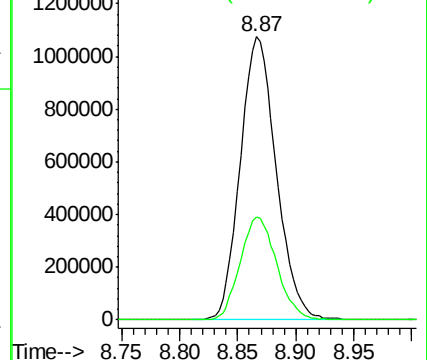
43 100

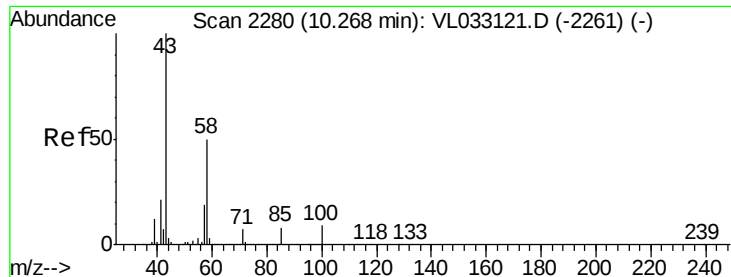
58 37.1 29.4 44.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





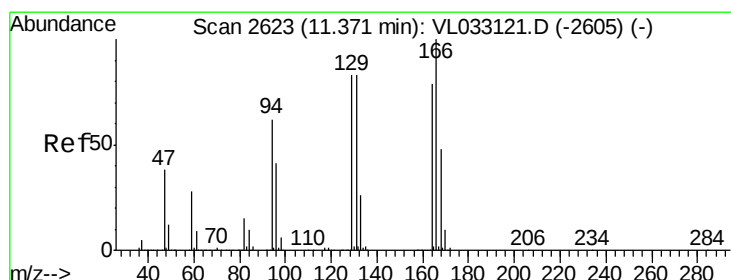
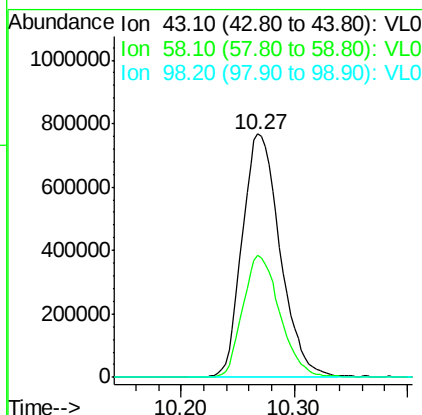
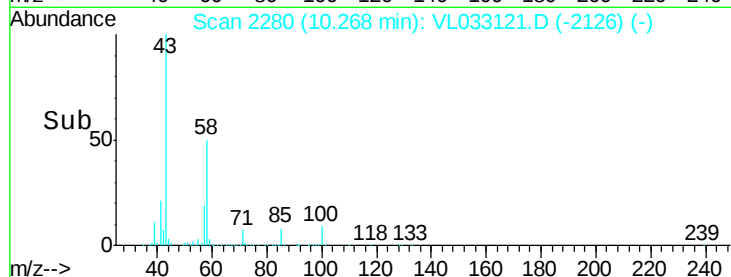
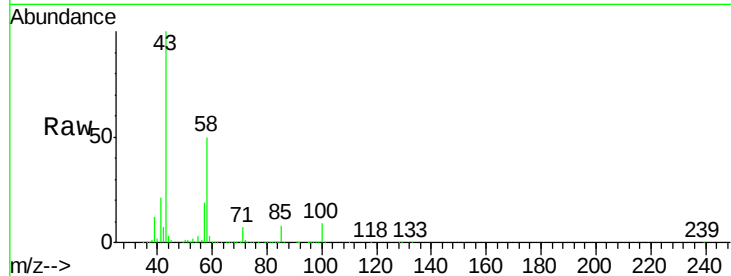
#51
2-Hexanone
Concen: 10.481 ppbv
RT: 10.27 min Scan# 2280
Delta R.T. -0.00 min
Lab File: VL033121.D
Acq: 28 Jan 2019 21:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 43 Resp: 1788229
Ion Ratio Lower Upper
43 100
58 49.2 39.5 59.3
98 0.4 0.3 0.5

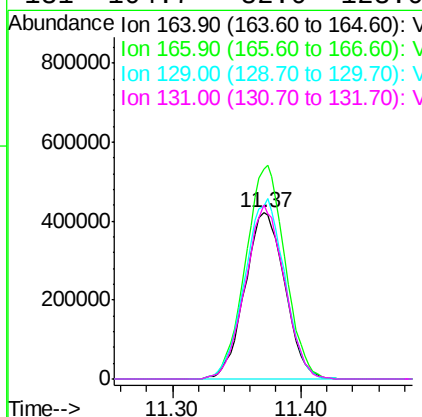
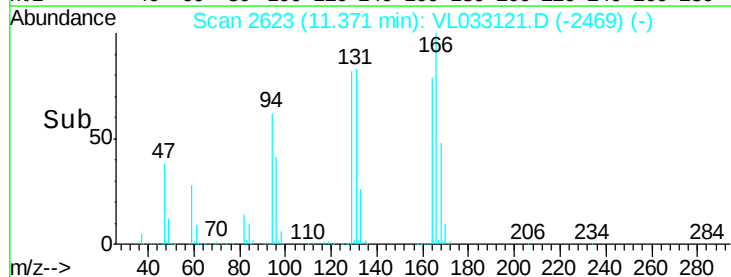
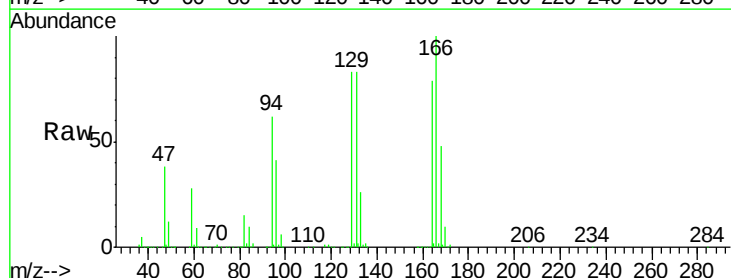
Manual Integrations
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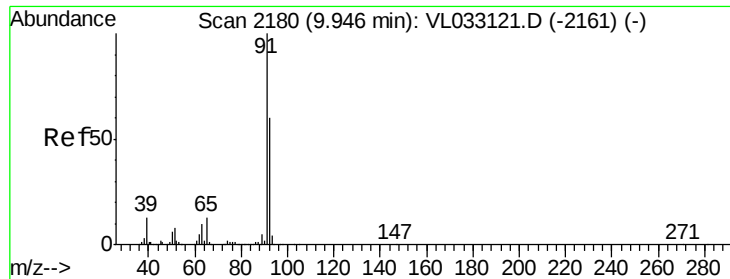
apatel
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#52
Tetrachloroethene
Concen: 9.782 ppbv
RT: 11.37 min Scan# 2623
Delta R.T. -0.00 min
Lab File: VL033121.D
Acq: 28 Jan 2019 21:14

Tgt Ion: 164 Resp: 907178
Ion Ratio Lower Upper
164 100
166 126.4 101.3 151.9
129 104.3 83.3 124.9
131 104.7 82.0 123.0





#53

Toluene

Concen: 10.283 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.00 min

Lab File: VL033121.D

Acq: 28 Jan 2019 21:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 2891160

Ion Ratio Lower Upper

91 100

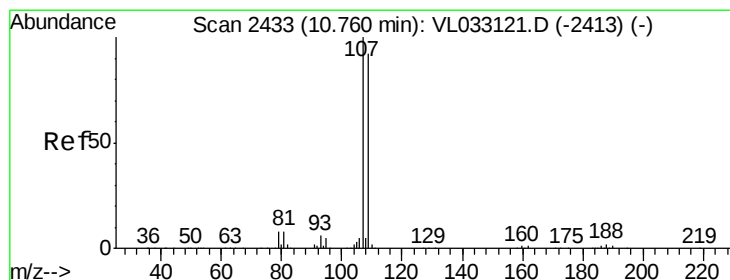
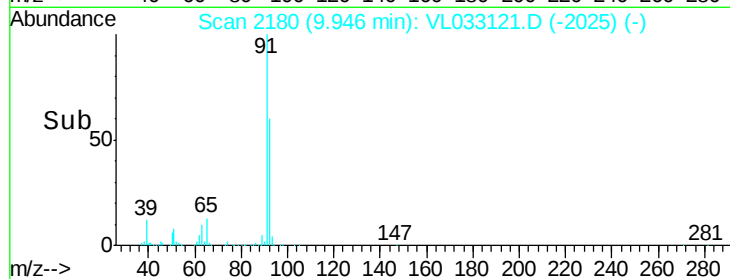
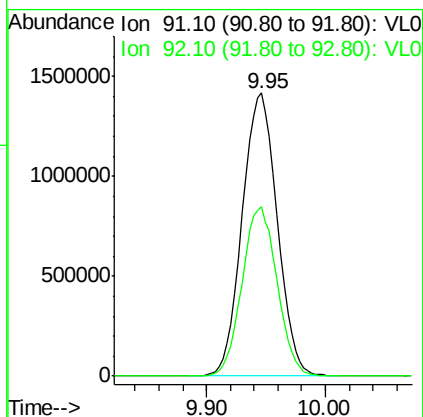
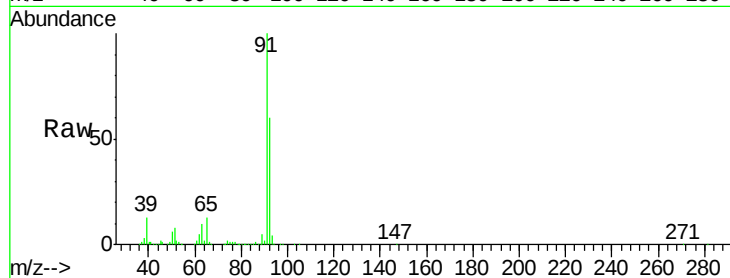
92 59.7 47.9 71.9

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 9.725 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. -0.00 min

Lab File: VL033121.D

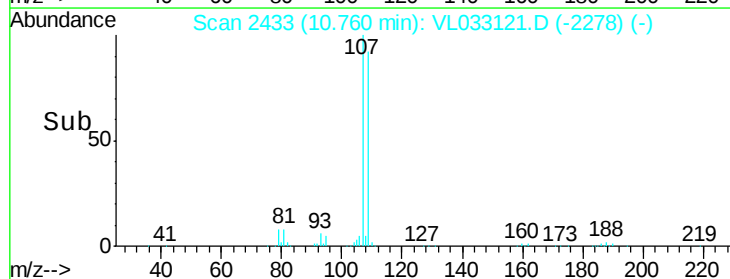
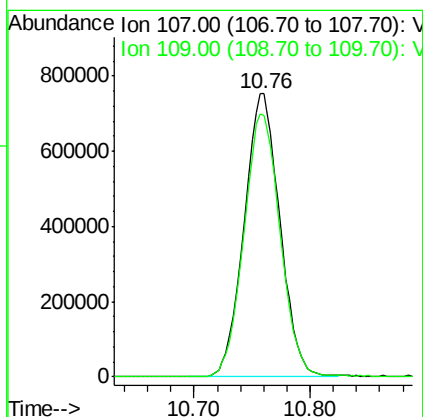
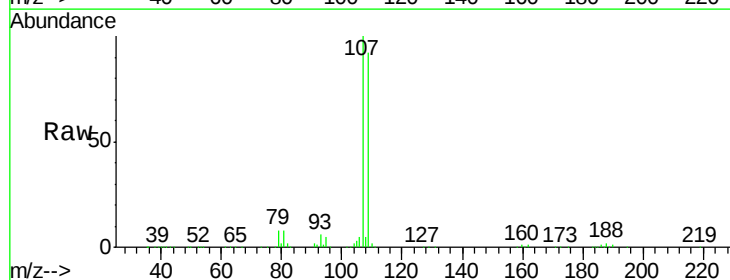
Acq: 28 Jan 2019 21:14

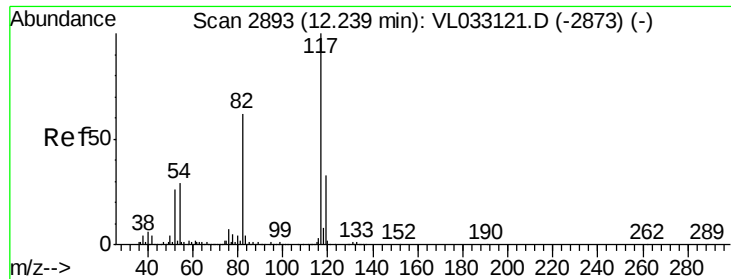
Tgt Ion: 107 Resp: 1613495

Ion Ratio Lower Upper

107 100

109 92.2 75.8 113.6





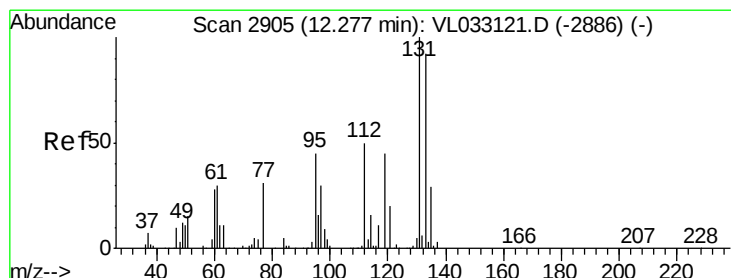
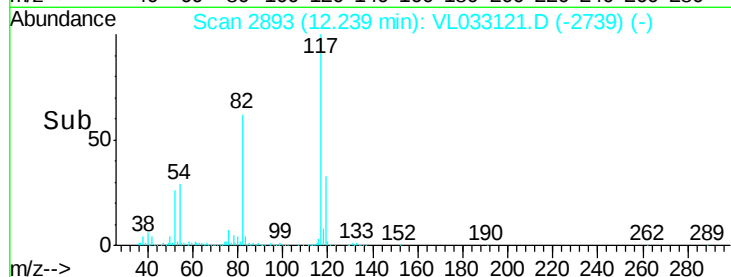
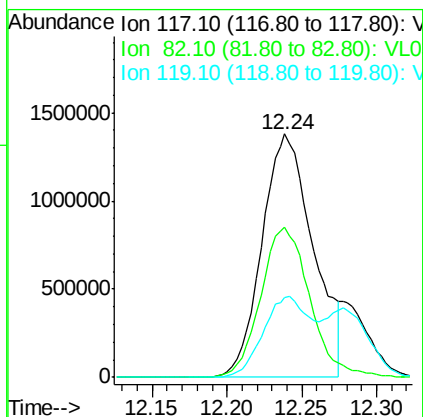
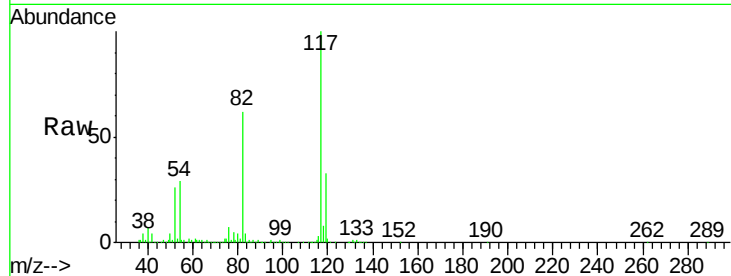
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL033121.D
Acq: 28 Jan 2019 21:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
117	100		
82	59.4	48.3	72.5
119	30.9	25.9	38.9

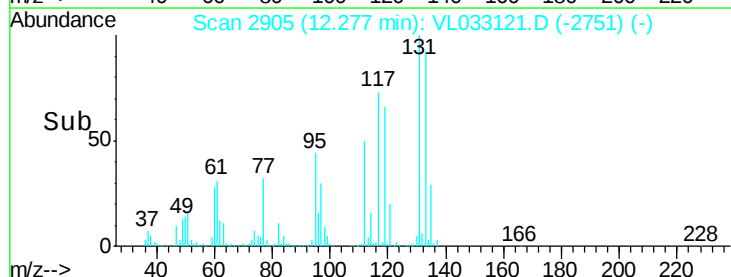
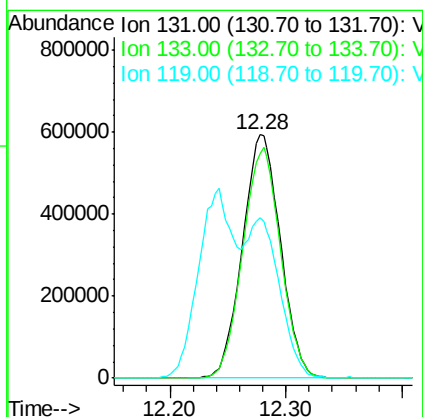
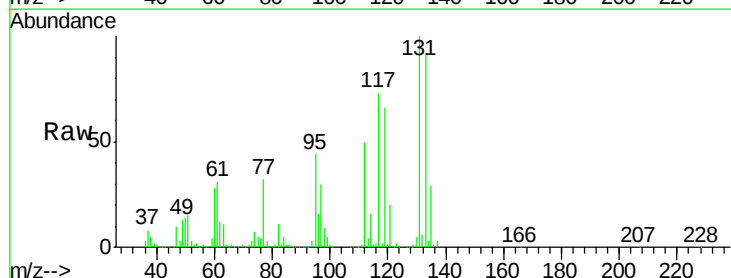
Manual Integrations
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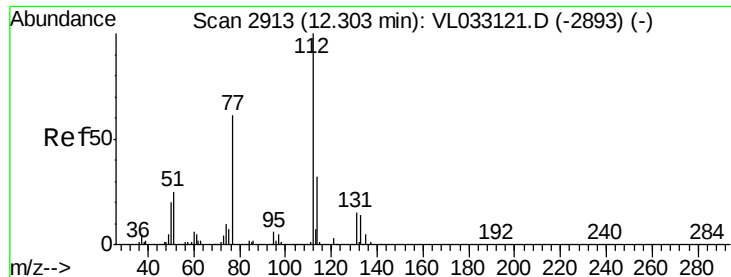
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#56
1,1,1,2-Tetrachloroethane
Concen: 7.958 ppbv
RT: 12.28 min Scan# 2905
Delta R.T. -0.00 min
Lab File: VL033121.D
Acq: 28 Jan 2019 21:14

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.6	76.6	115.0
119	58.2	44.6	66.8





#57

Chlorobenzene

Concen: 8.213 ppbv

RT: 12.30 min Scan# 2913

Delta R.T. -0.00 min

Lab File: VL033121.D

Acq: 28 Jan 2019 21:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:112 Resp: 2251651

Ion Ratio Lower Upper

112 100

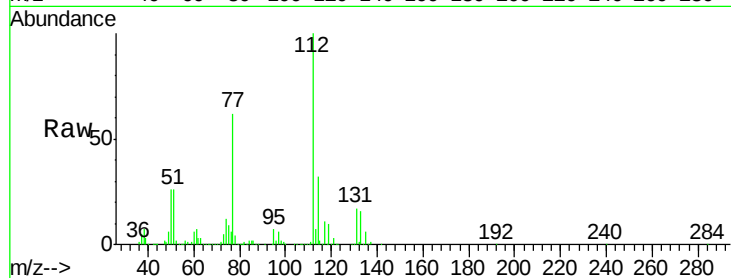
77 61.5 51.6 77.4

114 32.0 27.9 34.1

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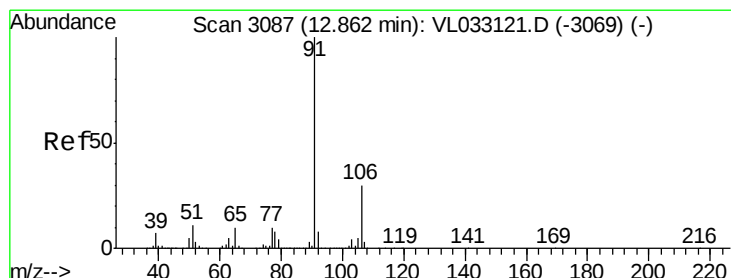
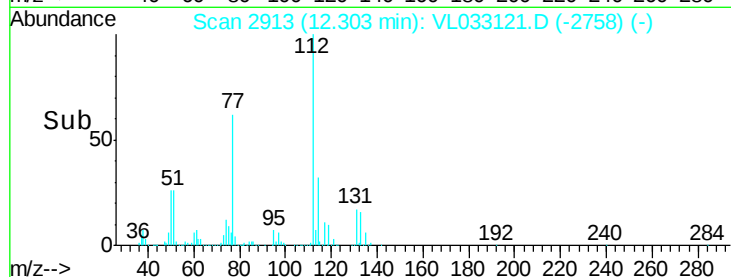
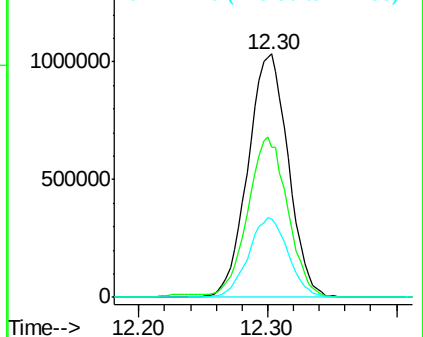
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 9.507 ppbv

RT: 12.86 min Scan# 3087

Delta R.T. -0.00 min

Lab File: VL033121.D

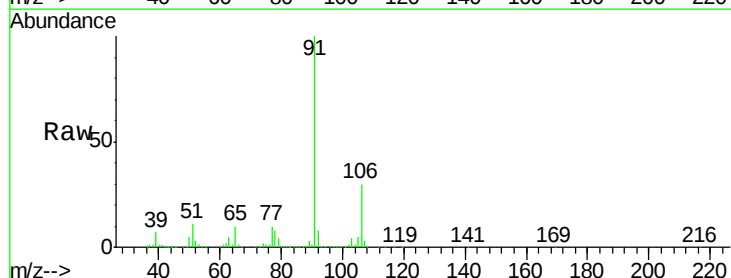
Acq: 28 Jan 2019 21:14

Tgt Ion: 91 Resp: 3942526

Ion Ratio Lower Upper

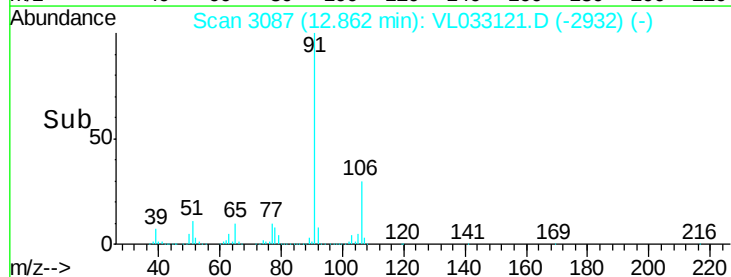
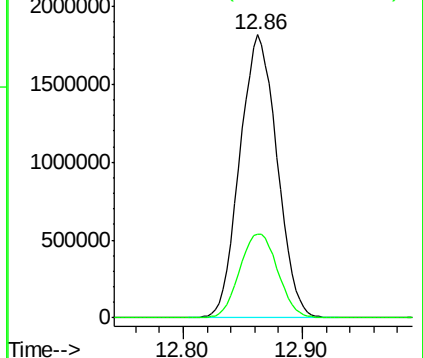
91 100

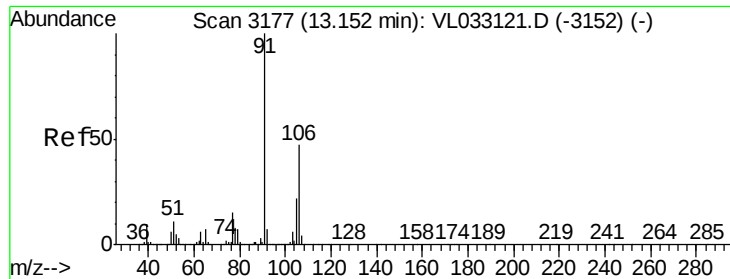
106 29.7 24.4 36.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





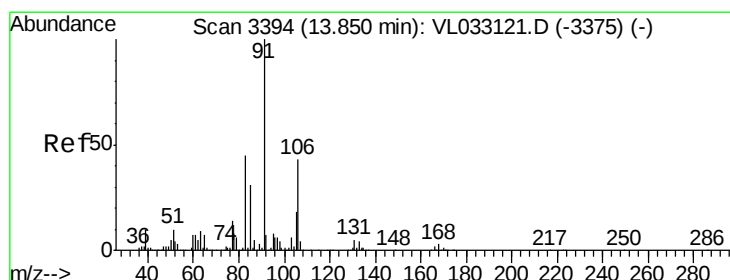
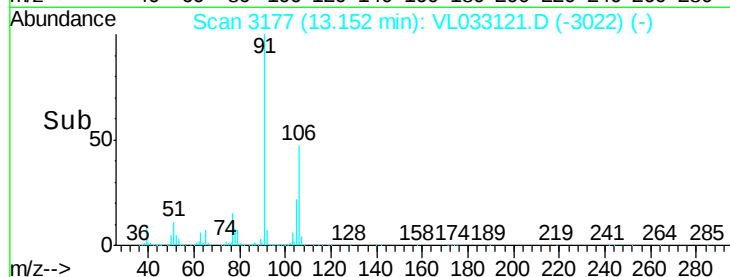
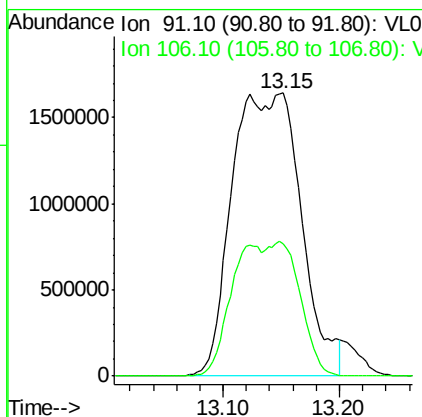
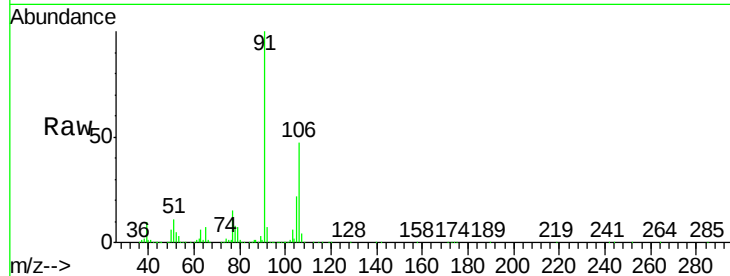
#59
m/p-Xylene
Concen: 17.585 ppbv m
RT: 13.15 min Scan# 3177
Delta R.T. -0.00 min
Lab File: VL033121.D
Acq: 28 Jan 2019 21:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 91 Resp: 6746545
Ion Ratio Lower Upper
91 100
106 45.5 0.0 0.0#

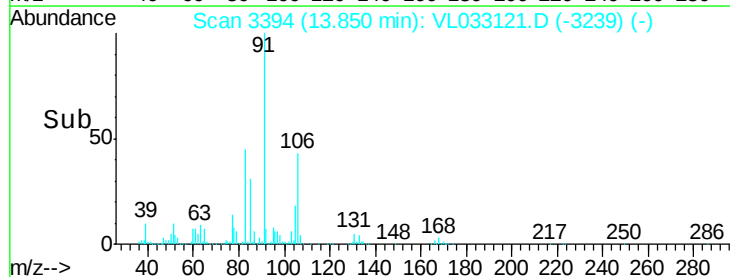
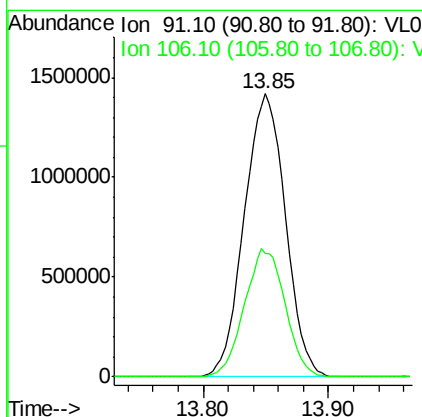
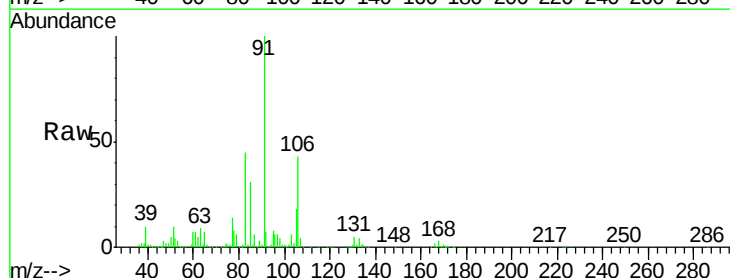
Manual Integrations
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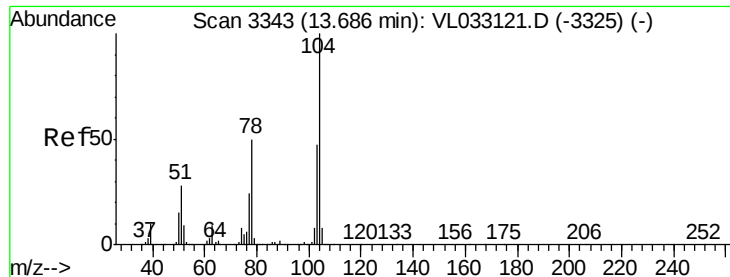
apatel
1/29/2019 2:36:31 PM



#60
o-Xylene
Concen: 8.613 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. -0.00 min
Lab File: VL033121.D
Acq: 28 Jan 2019 21:14

Tgt Ion: 91 Resp: 3234723
Ion Ratio Lower Upper
91 100
106 44.8 22.6 67.8





#61

Stvrene

Concen: 10.211 ppbv

RT: 13.69 min Scan# 3343

Delta R.T. -0.00 min

Lab File: VL033121.D

Acq: 28 Jan 2019 21:14

Instrument :

MSVOA_L

ClientSampled :

VSTDICCC010

Tot Ion:104 Resp: 2446986

Ion Ratio Lower Upper

104 100

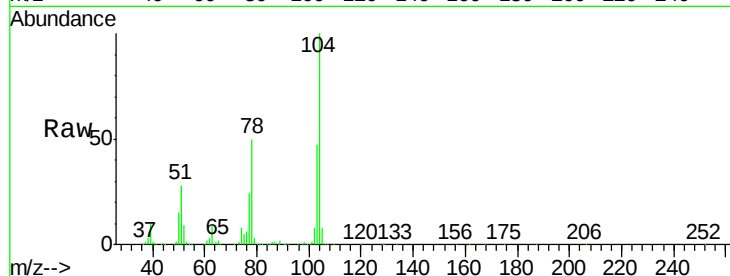
78 50.6 41.4 62.0

103 47.5 37.8 56.6

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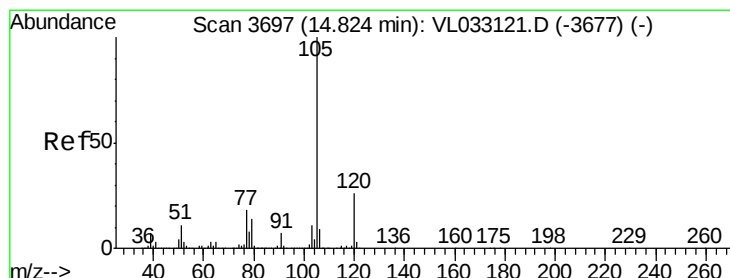
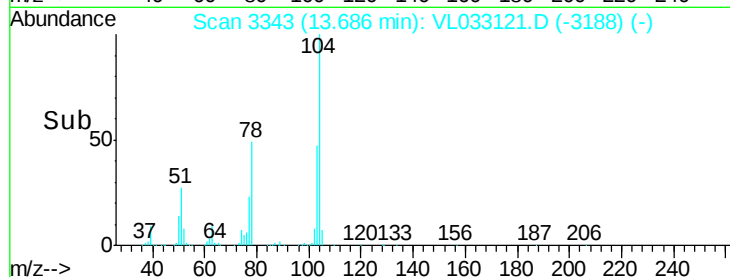
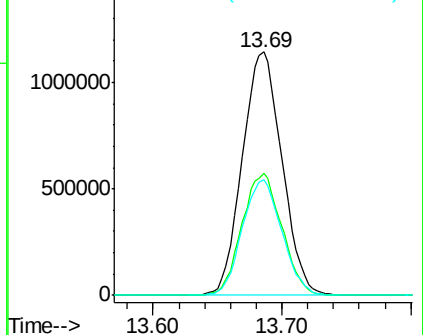
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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 8.751 ppbv

RT: 14.82 min Scan# 3697

Delta R.T. -0.00 min

Lab File: VL033121.D

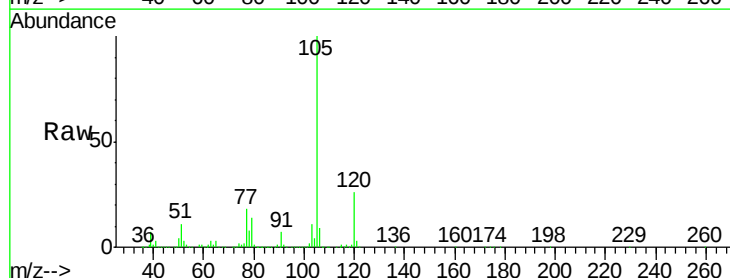
Acq: 28 Jan 2019 21:14

Tgt Ion:105 Resp: 4677339

Ion Ratio Lower Upper

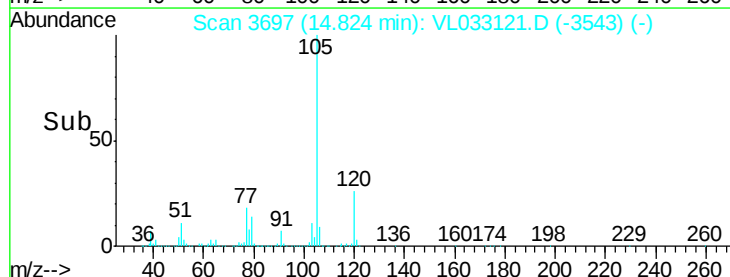
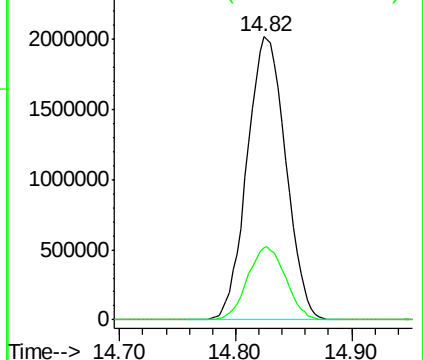
105 100

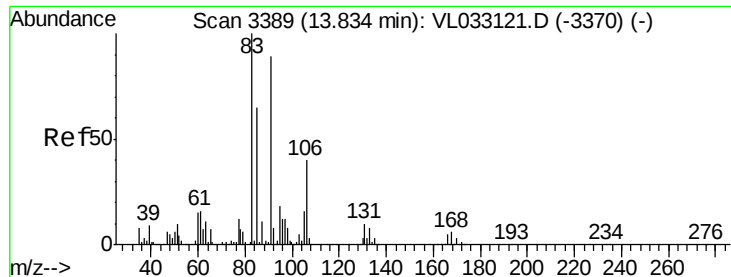
120 25.5 20.4 30.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





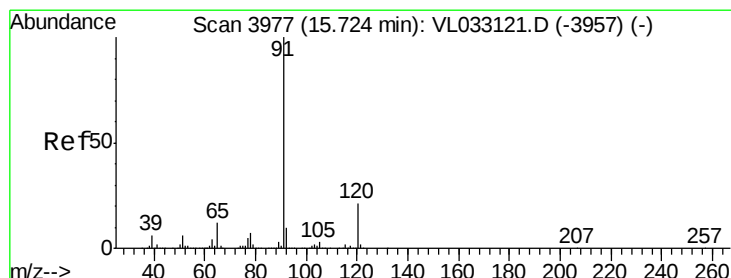
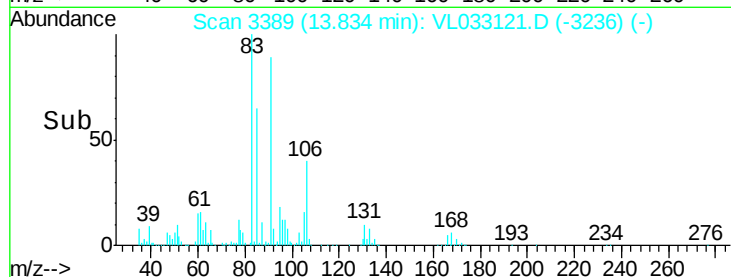
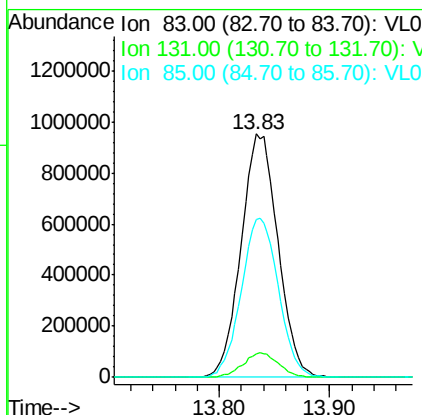
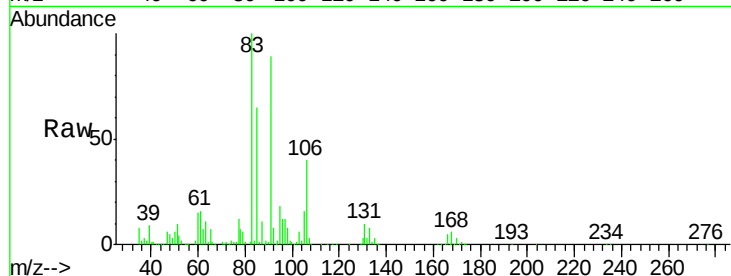
#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.923 ppbv
 RT: 13.83 min Scan# 3389
 Delta R.T. -0.01 min
 Lab File: VL033121.D
 Acq: 28 Jan 2019 21:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 83 Resp: 2210427
 Ion Ratio Lower Upper
 83 100
 131 9.8 4.9 14.6
 85 66.0 32.5 97.4

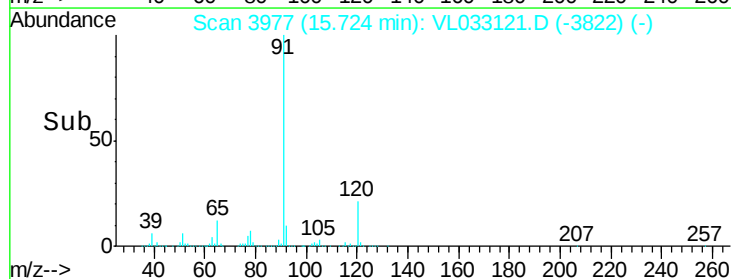
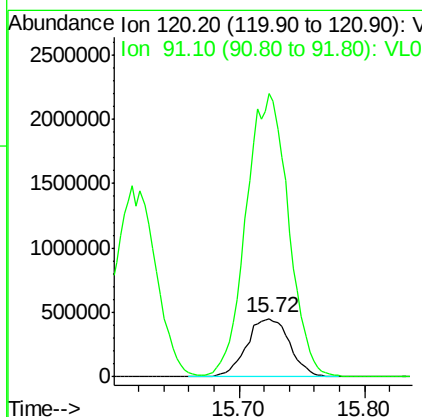
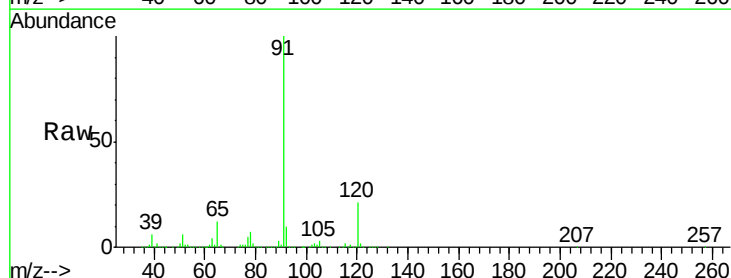
Manual Integrations
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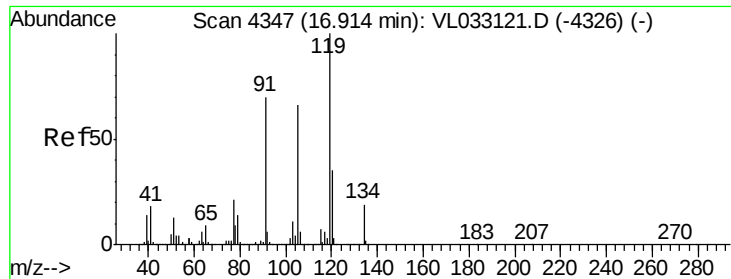
apatel
 1/29/2019 2:36:31 PM



#64
 n-propylbenzene
 Concen: 7.947 ppbv
 RT: 15.72 min Scan# 3977
 Delta R.T. -0.00 min
 Lab File: VL033121.D
 Acq: 28 Jan 2019 21:14

Tgt Ion: 120 Resp: 1079051
 Ion Ratio Lower Upper
 120 100
 91 478.7 375.7 563.5





#65

tert-Butylbenzene

Concen: 7.760 ppbv

RT: 16.91 min Scan# 4347

Delta R.T. 0.00 min

Lab File: VL033121.D

Acq: 28 Jan 2019 21:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:119 Resp: 3673964

Ion Ratio Lower Upper

119 100

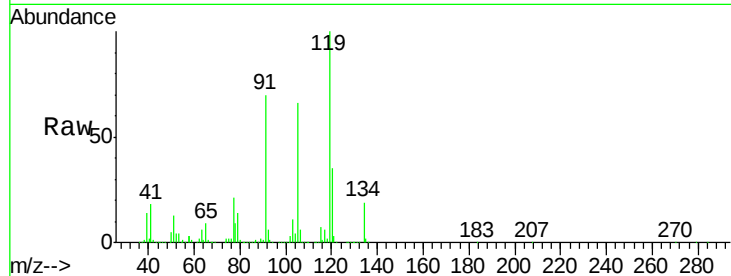
91 79.3 64.5 96.7

134 20.0 15.7 23.5

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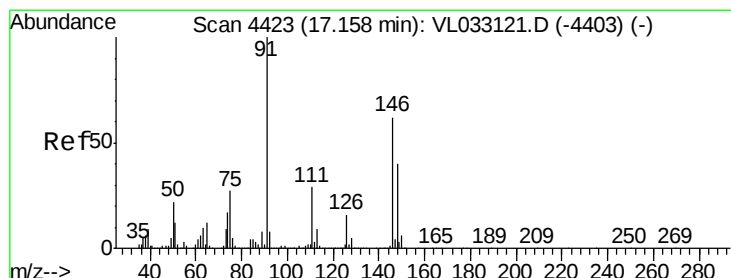
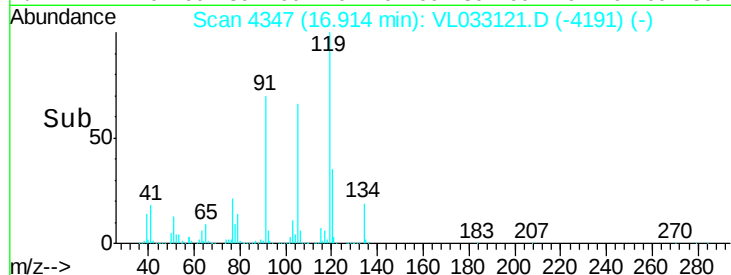
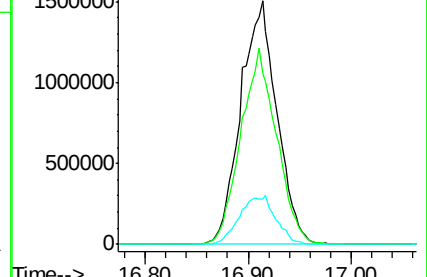
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 8.269 ppbv

RT: 17.16 min Scan# 4423

Delta R.T. -0.00 min

Lab File: VL033121.D

Acq: 28 Jan 2019 21:14

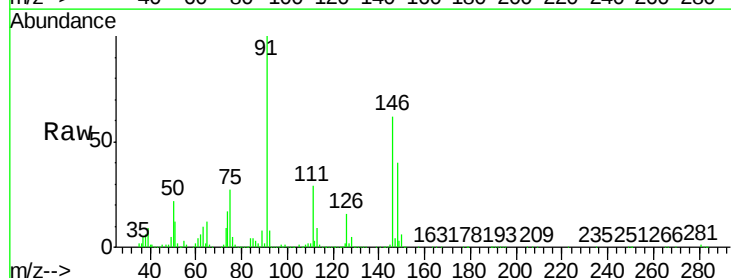
Tgt Ion: 91 Resp: 2231359

Ion Ratio Lower Upper

91 100

126 17.8 14.3 21.5

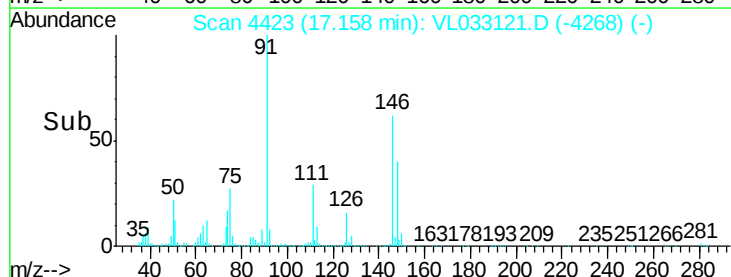
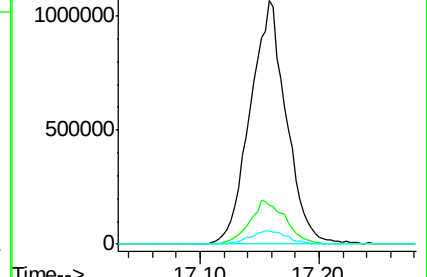
128 5.7 4.6 7.0

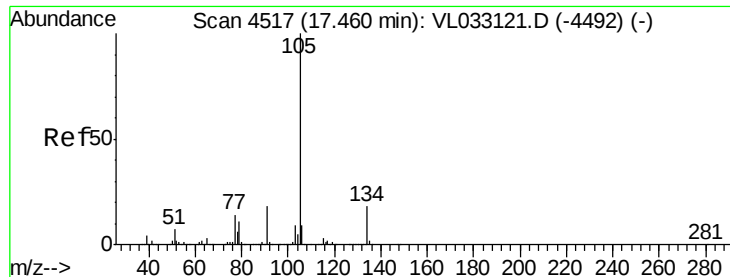


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 7.480 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. -0.00 min

Lab File: VL033121.D

Acq: 28 Jan 2019 21:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 105 Resp: 5067983

Ion Ratio Lower Upper

105 100

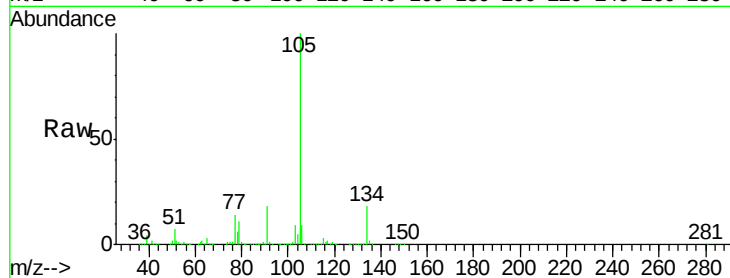
134 18.4 14.8 22.2

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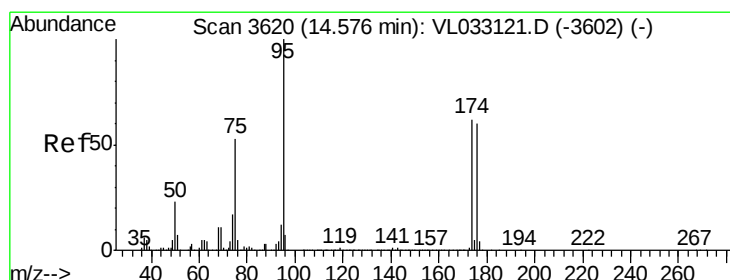
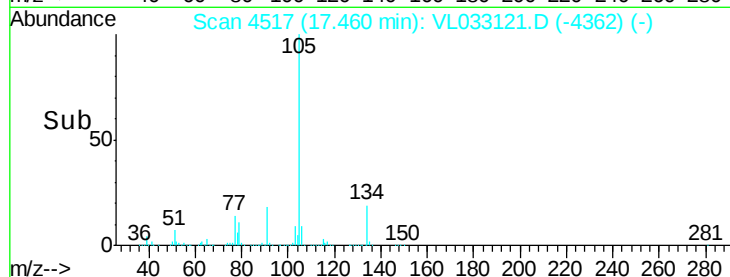
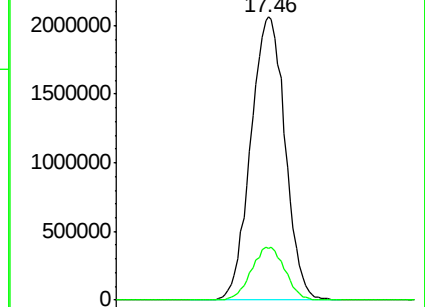
apatel

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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: 9.636 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.00 min

Lab File: VL033121.D

Acq: 28 Jan 2019 21:14

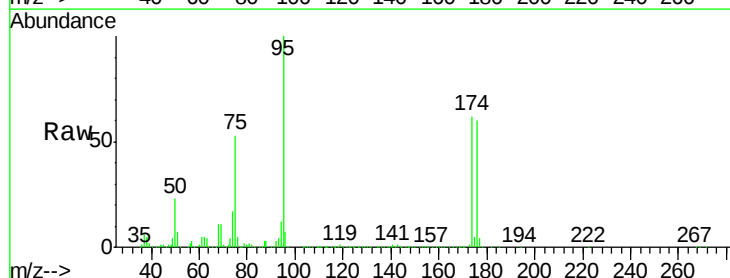
Tgt Ion: 95 Resp: 2426326

Ion Ratio Lower Upper

95 100

174 65.1 51.4 77.2

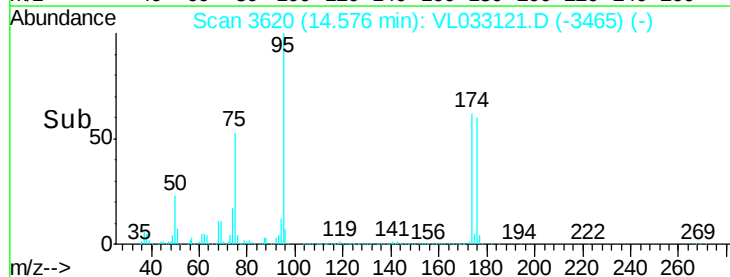
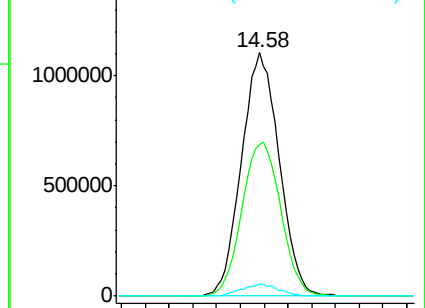
175 4.8 4.0 6.0

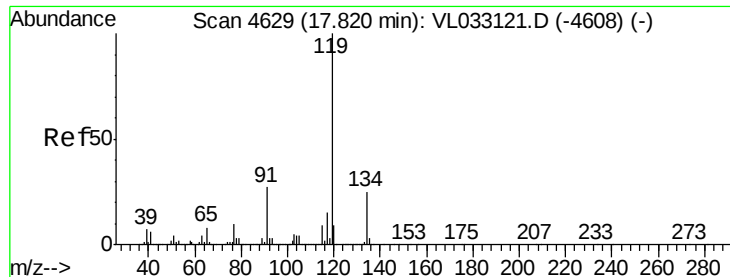


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





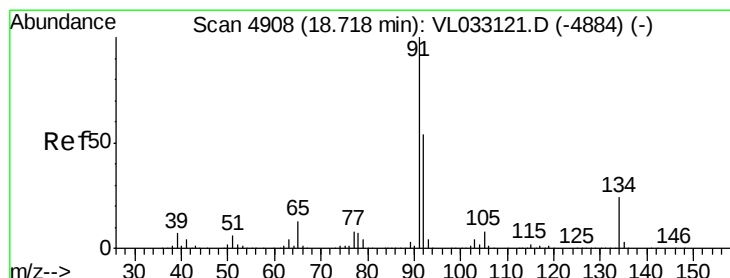
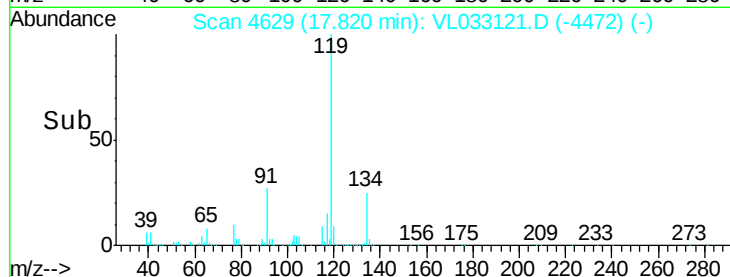
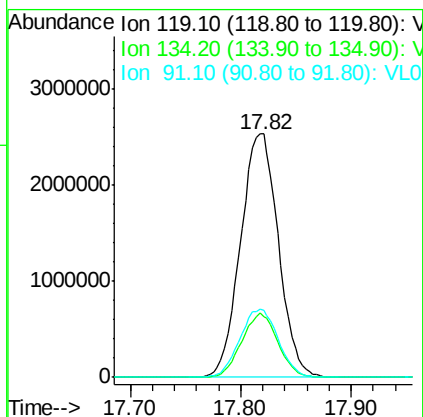
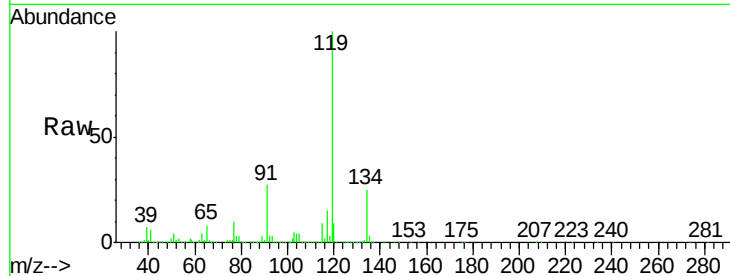
#69
p-Isopropyltoluene
Concen: 10.919 ppbv
RT: 17.82 min Scan# 4629
Delta R.T. 0.01 min
Lab File: VL033121.D
Acq: 28 Jan 2019 21:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.3	20.4	30.6
91	28.6	22.8	34.2

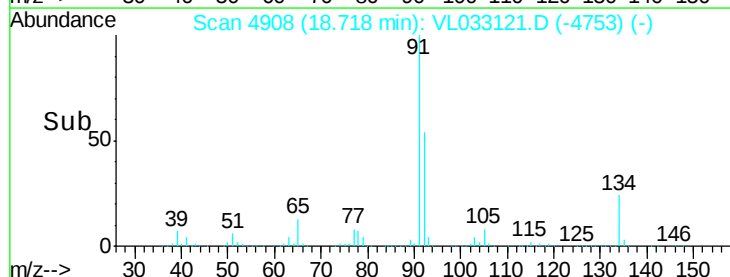
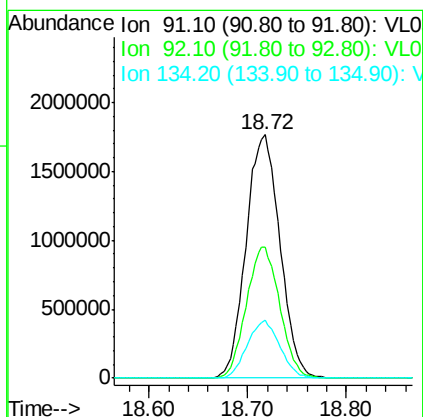
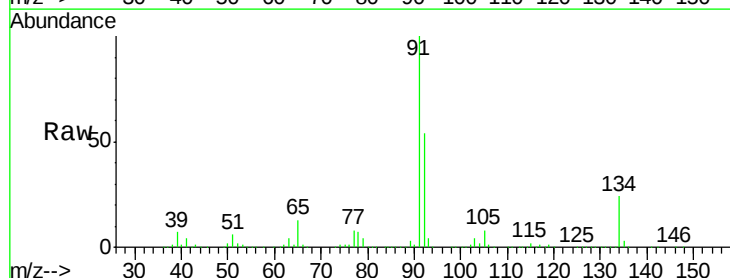
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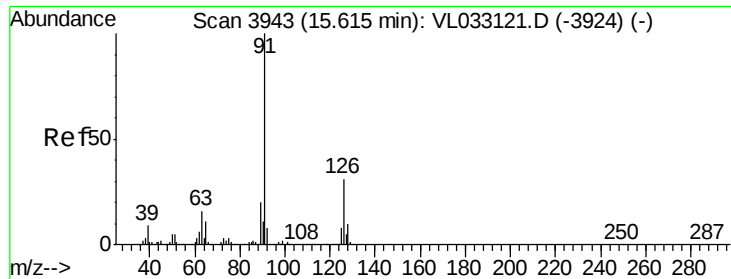
apatel
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#70
n-Butylbenzene
Concen: 7.572 ppbv
RT: 18.72 min Scan# 4908
Delta R.T. -0.00 min
Lab File: VL033121.D
Acq: 28 Jan 2019 21:14

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.1	43.0	64.6
134	22.8	18.4	27.6





#71

2-Chlorotoluene

Concen: 8.771 ppbv m

RT: 15.61 min Scan# 3943

Delta R.T. -0.00 min

Lab File: VL033121.D

Acq: 28 Jan 2019 21:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 3324634

Ion Ratio Lower Upper

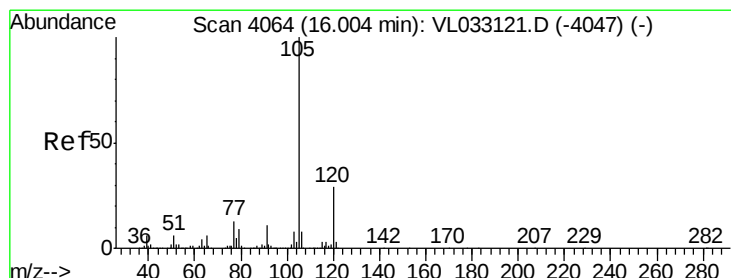
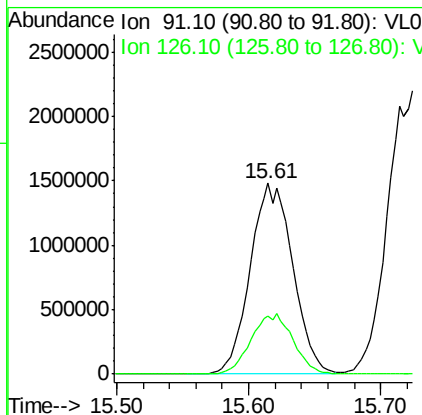
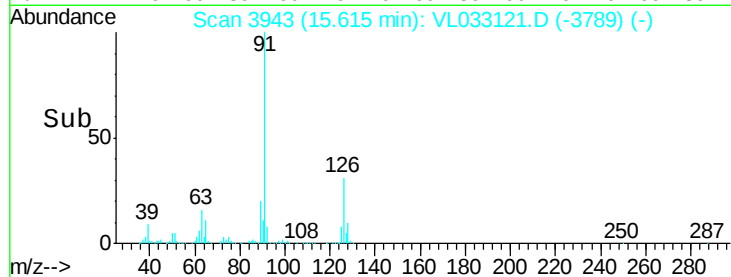
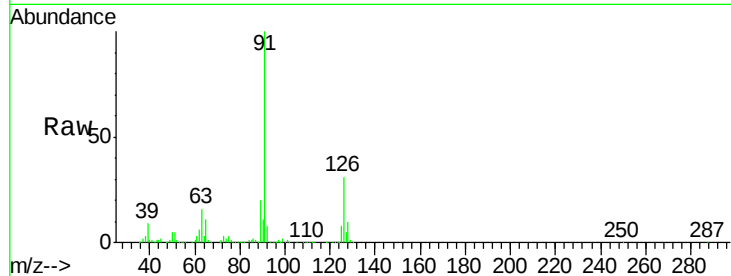
91 100

126 0.0 12.4 49.8#

Manual Integrations
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#72

4-Ethyltoluene

Concen: 9.068 ppbv

RT: 16.00 min Scan# 4064

Delta R.T. -0.00 min

Lab File: VL033121.D

Acq: 28 Jan 2019 21:14

Tgt Ion: 105 Resp: 3742879

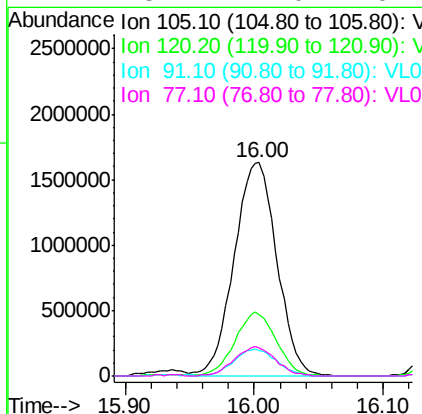
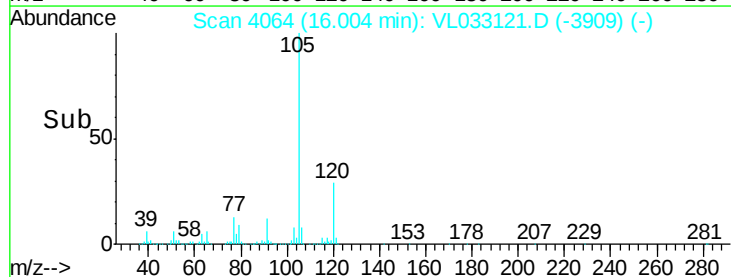
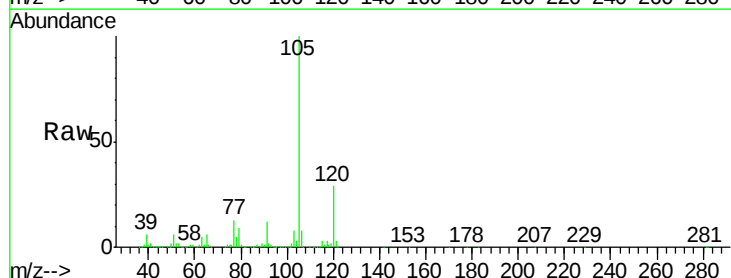
Ion Ratio Lower Upper

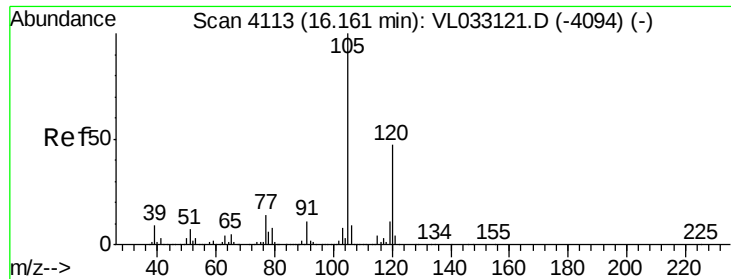
105 100

120 29.1 23.5 35.3

91 12.8 10.3 15.5

77 13.4 11.0 16.4





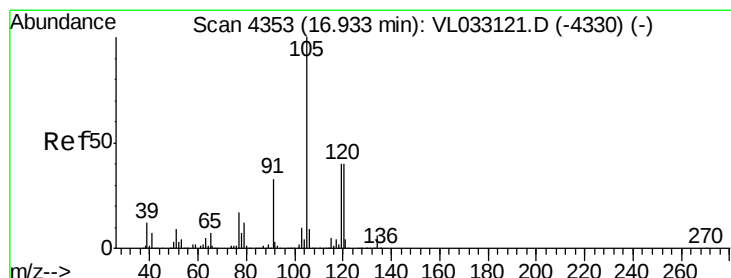
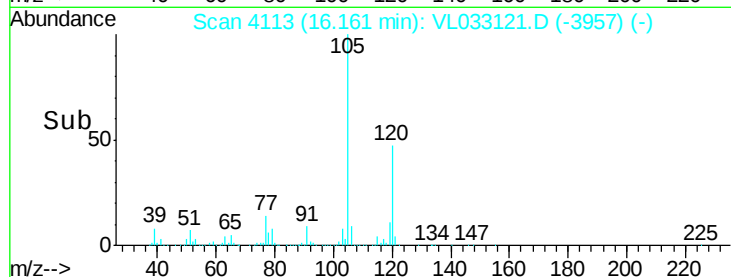
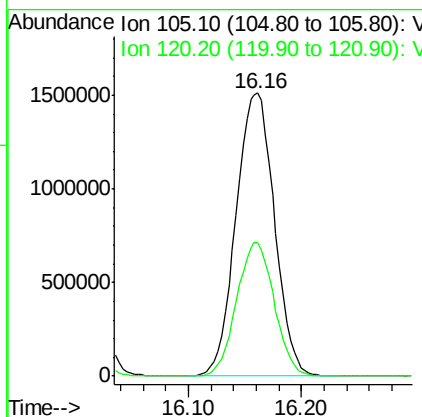
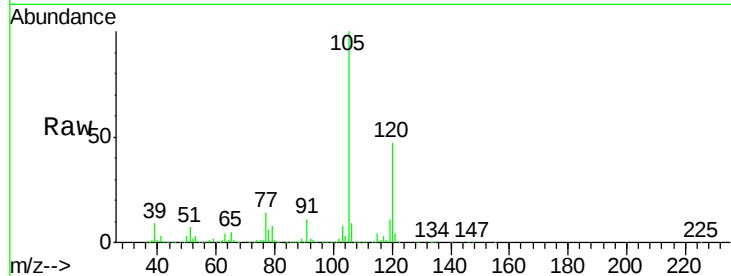
#73
 1,3,5-Trimethylbenzene
 Concen: 8.733 ppbv
 RT: 16.16 min Scan# 4113
 Delta R.T. 0.00 min
 Lab File: VL033121.D
 Acq: 28 Jan 2019 21:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:105 Resp: 3556301
 Ion Ratio Lower Upper
 105 100
 120 47.0 37.5 56.3

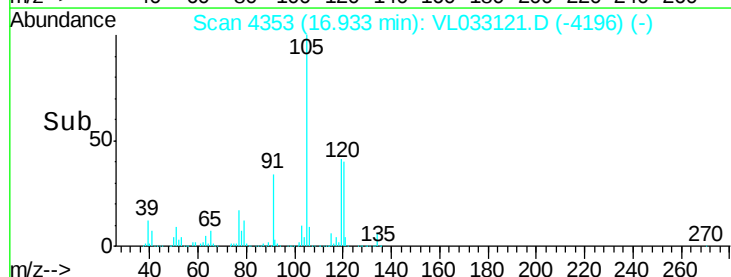
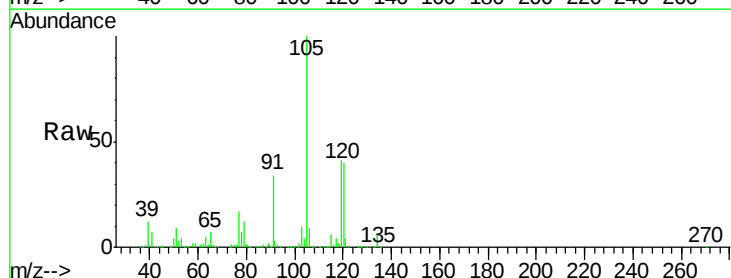
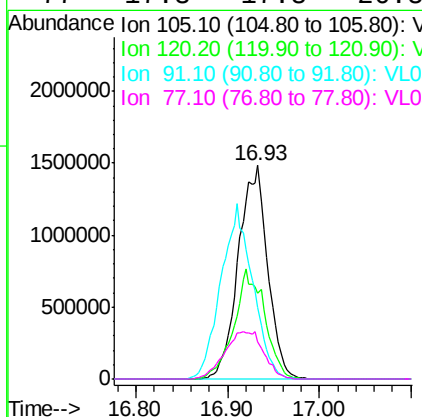
Manual Integrations
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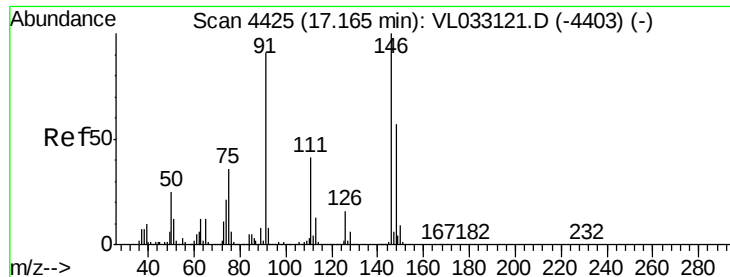
apatel
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#74
 1,2,4-Trimethylbenzene
 Concen: 7.287 ppbv m
 RT: 16.93 min Scan# 4353
 Delta R.T. 0.01 min
 Lab File: VL033121.D
 Acq: 28 Jan 2019 21:14

Tgt Ion:105 Resp: 3286531
 Ion Ratio Lower Upper
 105 100
 120 40.4 37.9 56.9
 91 33.6 39.8 59.8#
 77 17.3 17.8 26.8#





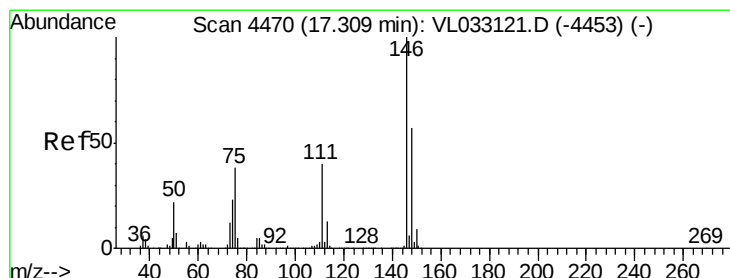
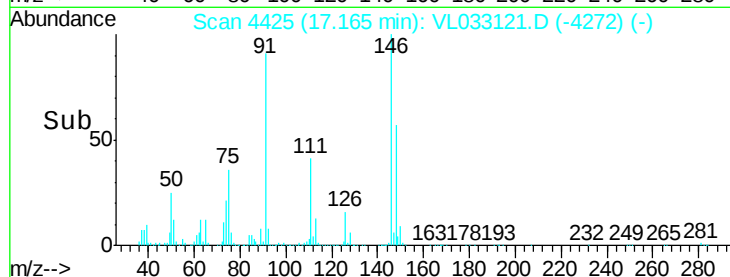
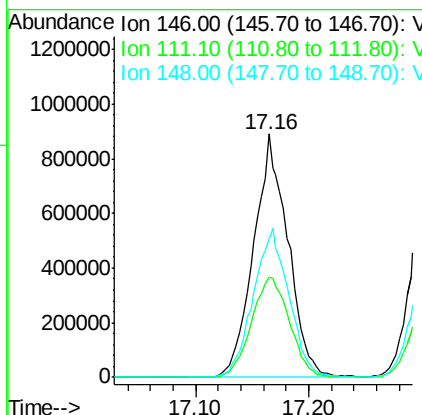
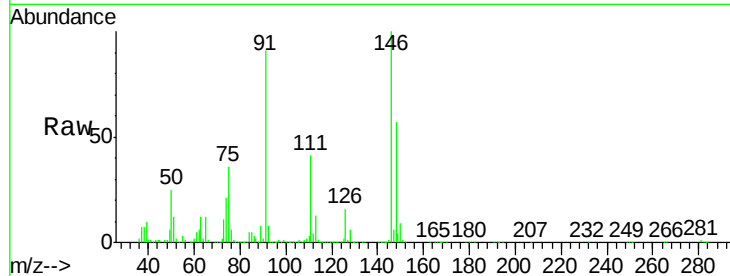
#75
 1,3-Dichlorobenzene
 Concen: 7.022 ppbv
 RT: 17.16 min Scan# 4425
 Delta R.T. -0.01 min
 Lab File: VL033121.D
 Acq: 28 Jan 2019 21:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:146 Resp: 1864159
 Ion Ratio Lower Upper
 146 100
 111 45.9 23.4 70.0
 148 63.9 32.1 96.3

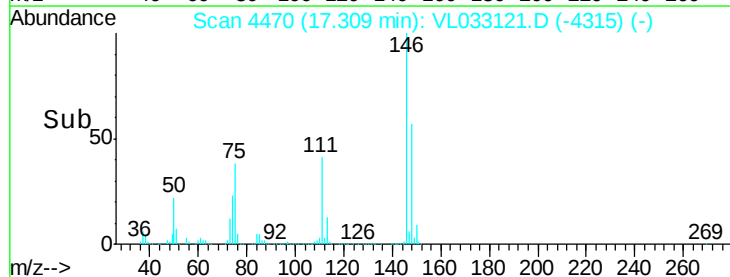
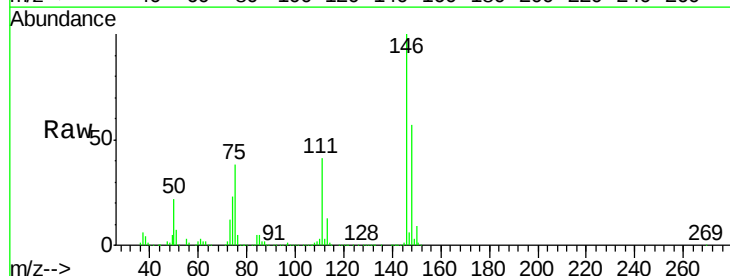
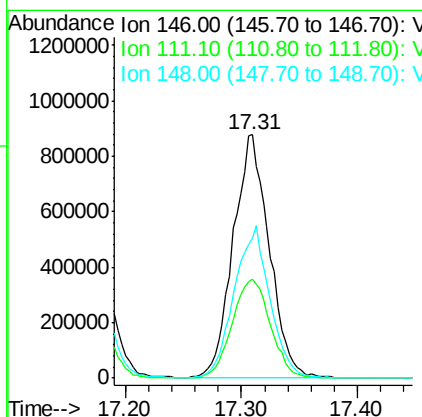
Manual Integrations
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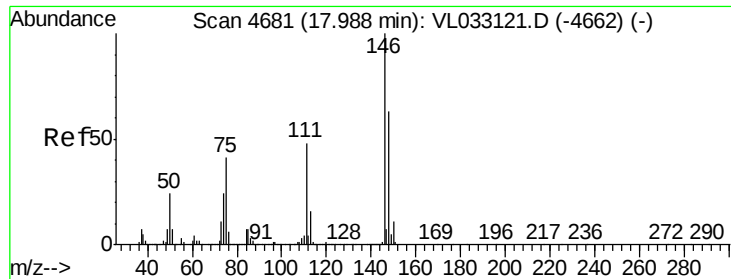
apatel
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#76
 1,4-Dichlorobenzene
 Concen: 7.774 ppbv
 RT: 17.31 min Scan# 4470
 Delta R.T. -0.00 min
 Lab File: VL033121.D
 Acq: 28 Jan 2019 21:14

Tgt Ion:146 Resp: 1879956
 Ion Ratio Lower Upper
 146 100
 111 43.5 22.7 68.0
 148 62.3 32.1 96.3





#77

1,2-Dichlorobenzene

Concen: 10.621 ppbv

RT: 17.99 min Scan# 4681

Delta R.T. -0.00 min

Lab File: VL033121.D

Acq: 28 Jan 2019 21:14

Instrument :

MSVOA_L

ClientSampled :

VSTDICCC010

Tot Ion:146 Resp: 2539300

Ion Ratio Lower Upper

146 100

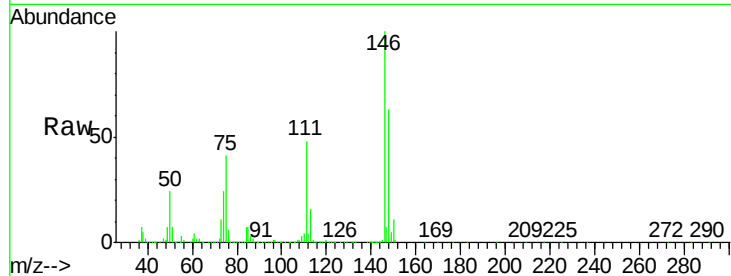
111 48.9 24.4 73.2

148 64.3 32.6 97.7

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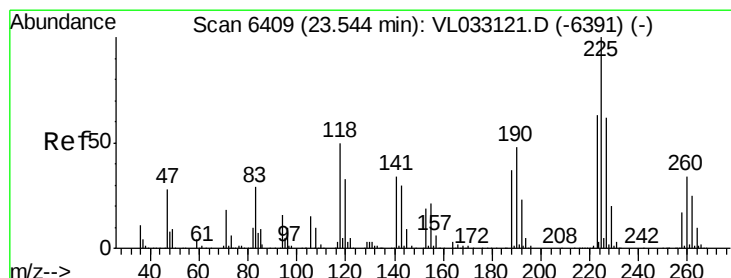
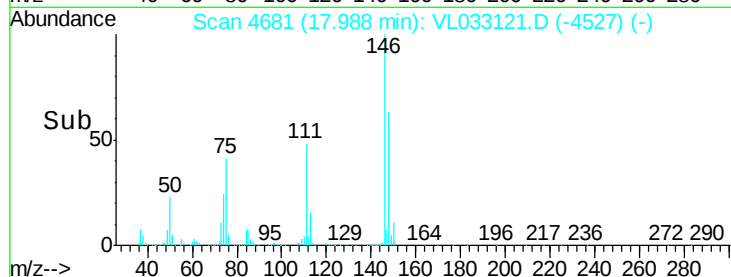
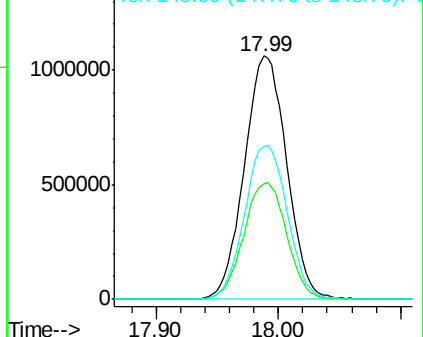
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 4.359 ppbv

RT: 23.54 min Scan# 6409

Delta R.T. -0.00 min

Lab File: VL033121.D

Acq: 28 Jan 2019 21:14

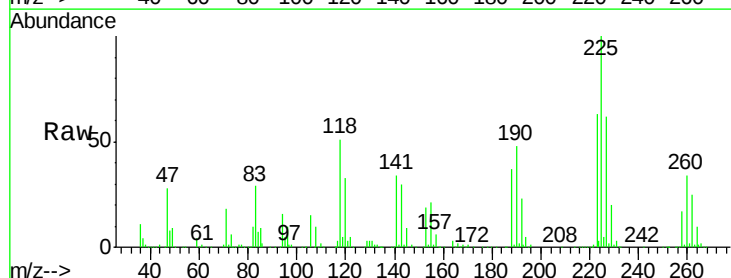
Tgt Ion:225 Resp: 800409

Ion Ratio Lower Upper

225 100

223 63.9 50.5 75.7

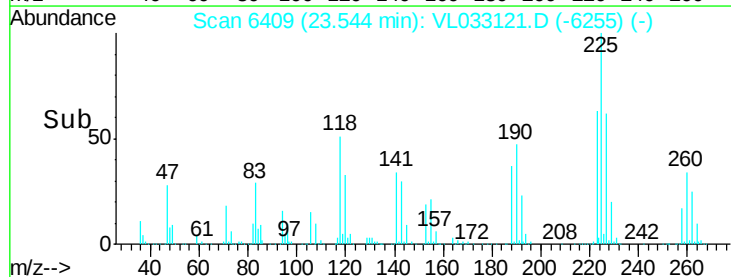
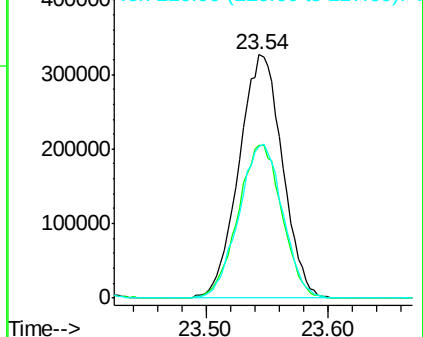
227 64.1 51.0 76.4

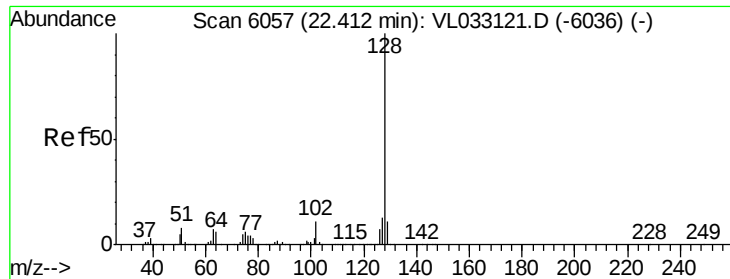


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 7.208 ppbv

RT: 22.41 min Scan# 6057

Delta R.T. -0.00 min

Lab File: VL033121.D

Acq: 28 Jan 2019 21:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:128 Resp: 2738480

Ion Ratio Lower Upper

128 100

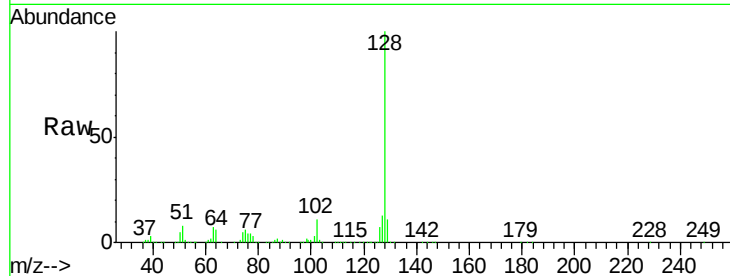
127 13.1 10.6 15.8

129 10.9 9.2 13.8

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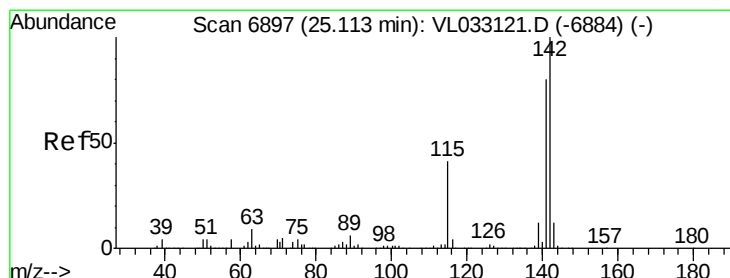
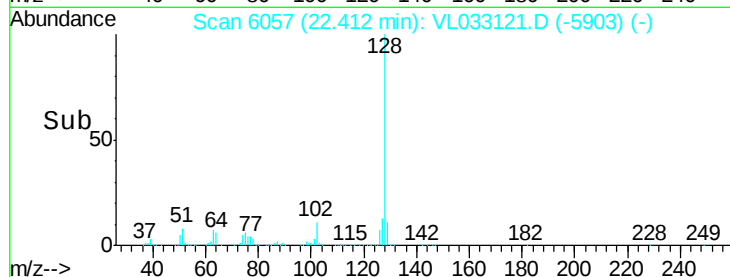
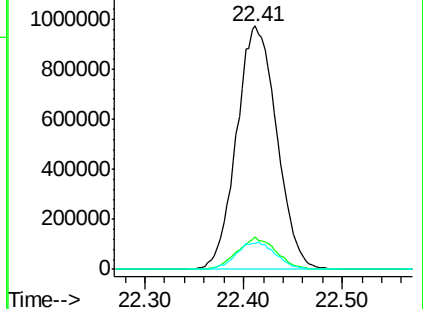
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Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 8.891 ppbv

RT: 25.11 min Scan# 6897

Delta R.T. -0.00 min

Lab File: VL033121.D

Acq: 28 Jan 2019 21:14

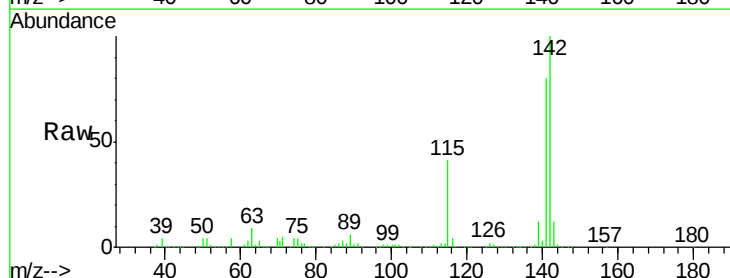
Tgt Ion:142 Resp: 1025006

Ion Ratio Lower Upper

142 100

141 84.3 67.4 101.2

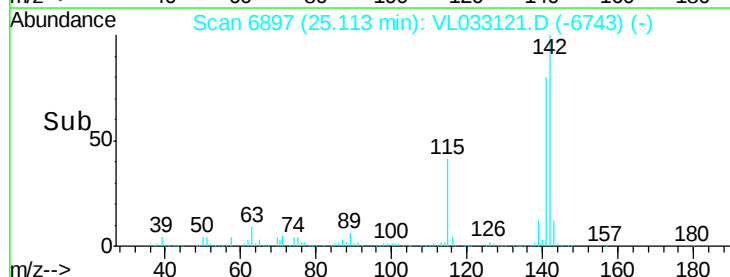
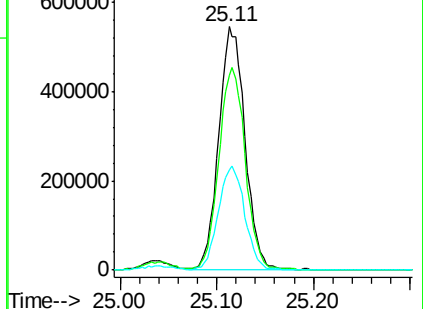
115 43.1 34.9 52.3

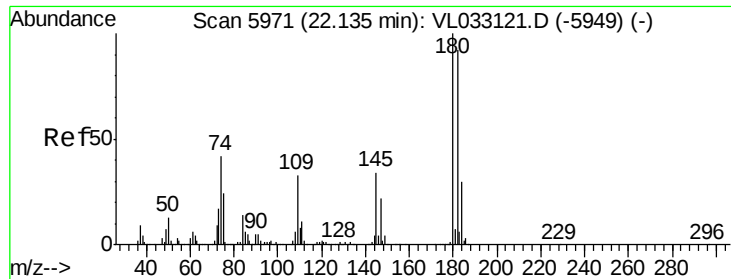


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 7.182 ppbv
 RT: 22.14 min Scan# 5971
 Delta R.T. -0.00 min
 Lab File: VL033121.D
 Acq: 28 Jan 2019 21:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:180 Resp: 1318056
 Ion Ratio Lower Upper
 180 100
 182 94.7 76.5 114.7
 184 30.0 24.2 36.4

Manual Integrations
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