

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030420\
 Data File : VL034782.D
 Acq On : 4 Mar 2020 5:15
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

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 3/4/2020 4:45:34 PM

Quant Time: Mar 04 06:35:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 04
 QLast Update : Wed Mar 04 05:54:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1094280	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	2246425	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	2356945	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1959700	10.14	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	1678939	9.728	ppbv	99
3) Chlorodifluoromethane	2.96	51	1587427	13.394	ppbv	96
4) Chloromethane	3.11	50	879989	13.385	ppbv	95
5) Vinyl Chloride	3.23	62	888920	13.752	ppbv	98
6) Bromomethane	3.45	94	535871	14.173	ppbv	93
7) Chloroethane	3.54	64	325177	13.603	ppbv	93
8) Dichlorotetrafluoroethane	3.16	85	1946377	12.768	ppbv	99
9) Propene	2.98	41	658011	13.358	ppbv	99
10) Heptane	8.15	43	1844019	14.518	ppbv	98
11) Trichlorofluoromethane	3.93	101	2070741	13.691	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1438193	13.540	ppbv	98
13) Ethanol	3.59	45	185579	11.957	ppbv	98
14) Bromoethene	3.72	108	619770	13.912	ppbv	96
15) Acetone	3.84	43	1618757	12.964	ppbv	100
16) 1,3-Butadiene	3.30	39	817146	14.101	ppbv	98
17) tert-Butyl alcohol	4.29	59	1382467	14.441	ppbv	99
18) 1,1-Dichloroethene	4.28	96	664820	13.937	ppbv	100
19) Isopropyl Alcohol	3.96	45	1092016	14.661	ppbv	99
20) Methylene Chloride	4.33	84	588412	12.721	ppbv	97
21) Allyl Chloride	4.40	41	1178477	14.409	ppbv	99
22) trans-1,2-Dichloroethene	4.89	96	677420	14.701	ppbv	98
23) Vinyl Acetate	5.08	43	2519172	14.842	ppbv	99
24) 1,1-Dichloroethane	5.02	63	1820580	13.477	ppbv	99
25) Ethyl Acetate	5.68	43	3053977	13.811	ppbv	99
26) Hexane	5.69	57	1378145	13.561	ppbv	99
27) Carbon Disulfide	4.54	76	1747795	15.313	ppbv	99
28) Methyl tert-Butyl Ether	5.03	73	1948082	13.440	ppbv	99
29) Chloroform	5.77	83	2211487	13.648	ppbv	100
30) Cyclohexane	7.15	84	1152950	14.623	ppbv	97
31) cis-1,2-Dichloroethene	5.56	61	1452177	14.510	ppbv	99
32) 1,1,1-Trichloroethane	6.53	97	2173007	14.302	ppbv	99
34) 2-Butanone	5.25	43	2035082	14.342	ppbv	99
35) Carbon Tetrachloride	7.04	117	2250596	14.945	ppbv	100
36) Benzene	6.92	78	2705151	13.975	ppbv	99
37) 1,2-Dichloroethane	6.33	62	1850295	15.022	ppbv	100
38) Trichloroethene	7.87	130	1039688	13.909	ppbv	96
39) 1,2-Dichloropropane	7.64	63	1098812	14.303	ppbv	97
40) 1,4-Dioxane	7.86	88	372290	14.247	ppbv #	97
41) Tetrahydrofuran	6.06	42	1120969	15.077	ppbv	99
42) Bromodichloromethane	7.83	83	2431755	15.092	ppbv	99
43) Methyl Methacrylate	8.04	69	1296697	15.932	ppbv	98

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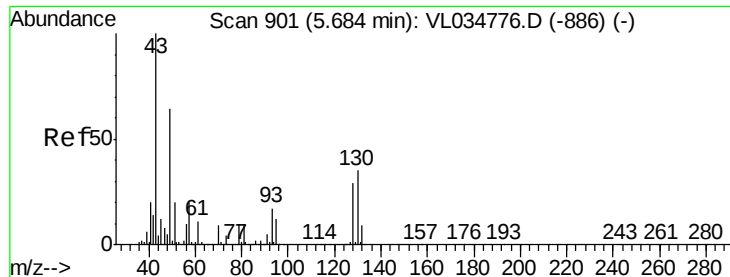
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 04
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.90	57	4658446	13.763	ppbv	98
45) t-1,3-Dichloropropene	9.32	75	1548255	17.526	ppbv	100
46) cis-1,3-Dichloropropene	8.74	75	1750276	16.482	ppbv	98
47) 1,1,2-Trichloroethane	9.52	97	1154982	14.572	ppbv	92
48) Dibromochloromethane	10.35	129	1996033	16.126	ppbv	100
49) Bromoform	13.10	173	1781835	16.535	ppbv	99
50) 4-Methyl-2-Pentanone	8.77	43	3087030	15.338	ppbv	99
51) 2-Hexanone	10.17	43	2629186	16.583	ppbv	100
52) Tetrachloroethene	11.27	164	970002	13.601	ppbv	95
53) Toluene	9.85	91	3152705	15.293	ppbv	99
54) 1,2-Dibromoethane	10.66	107	1771845	14.967	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.18	131	1456181	14.366	ppbv #	62
57) Chlorobenzene	12.20	112	2376832	13.625	ppbv	96
58) Ethyl Benzene	12.76	91	4275302	14.918	ppbv	97
59) m/p-Xylene	13.05	91	7003474m	28.158	ppbv	
60) o-Xylene	13.75	91	3540636	14.284	ppbv	99
61) Styrene	13.58	104	2557819	16.119	ppbv	98
62) Isopropylbenzene	14.73	105	5085527	14.062	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.74	83	2587060	13.394	ppbv	100
64) n-propylbenzene	15.62	120	1371149	14.719	ppbv	95
65) tert-Butylbenzene	16.81	119	4463496	14.262	ppbv	99
66) Benzyl Chloride	17.06	91	1923175	16.946	ppbv	99
67) sec-Butylbenzene	17.36	105	6305262	13.975	ppbv	99
69) p-Isopropyltoluene	17.72	119	5292985	14.249	ppbv	98
70) n-Butylbenzene	18.61	91	5777150	14.265	ppbv	98
71) 2-Chlorotoluene	15.51	91	4092939	14.575	ppbv	99
72) 4-Ethyltoluene	15.90	105	4207772	15.218	ppbv	99
73) 1,3,5-Trimethylbenzene	16.06	105	3949096	14.822	ppbv	96
74) 1,2,4-Trimethylbenzene	16.83	105	4075810	13.839	ppbv	94
75) 1,3-Dichlorobenzene	17.07	146	2371254	13.952	ppbv	99
76) 1,4-Dichlorobenzene	17.20	146	2385828	14.066	ppbv	99
77) 1,2-Dichlorobenzene	17.89	146	2332947	14.209	ppbv	99
78) Hexachloro-1,3-Butadiene	23.45	225	1860962	13.156	ppbv	99
79) Naphthalene	22.29	128	4014915	15.468	ppbv	99
80) Naphthalene, 2-methyl-	25.03	142	1189255	14.855	ppbv	98
81) 1,2,4-Trichlorobenzene	22.01	180	2289050	14.740	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 900

Delta R.T. -0.00 min

Lab File: VL034782.D

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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 49 Resp: 1094280

Ion Ratio Lower Upper

49 100

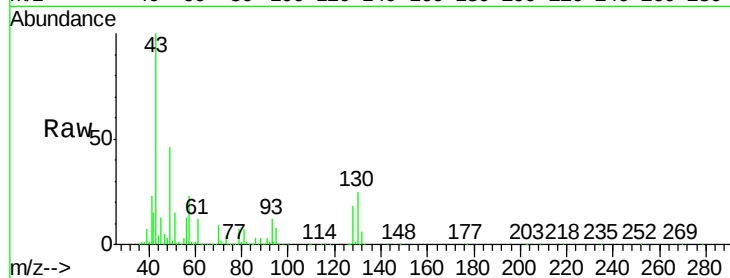
128 42.1 21.6 64.6

130 54.5 27.4 82.2

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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

5.68

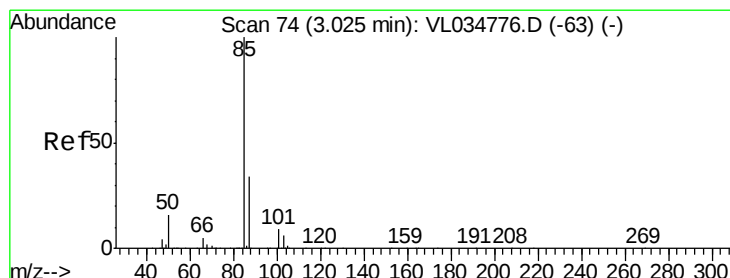
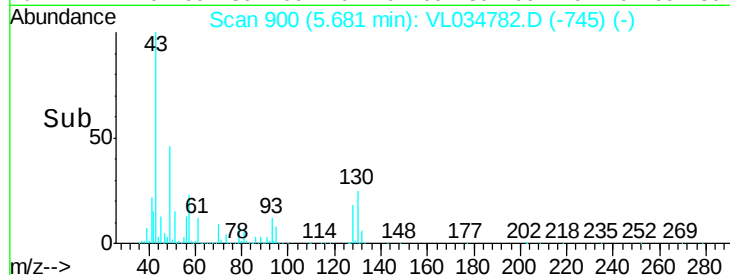
600000

400000

200000

0

Time--> 5.60 5.65 5.70 5.75



#2

Dichlorodifluoromethane

Concen: 9.728 ppbv

RT: 3.02 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL034782.D

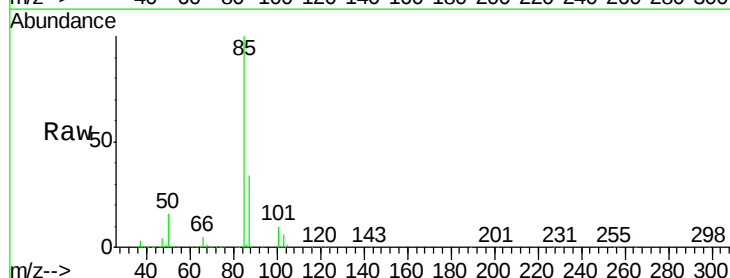
Acq: 4 Mar 2020 5:15

Tgt Ion: 85 Resp: 1678939

Ion Ratio Lower Upper

85 100

87 33.6 27.2 40.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.02

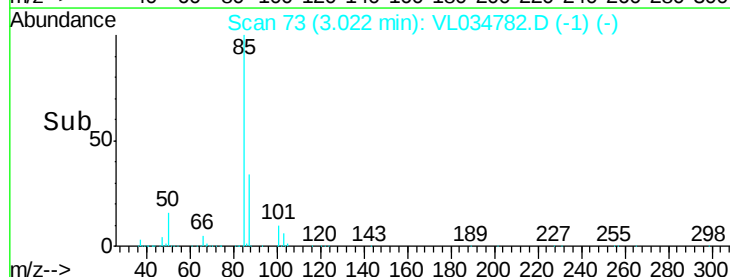
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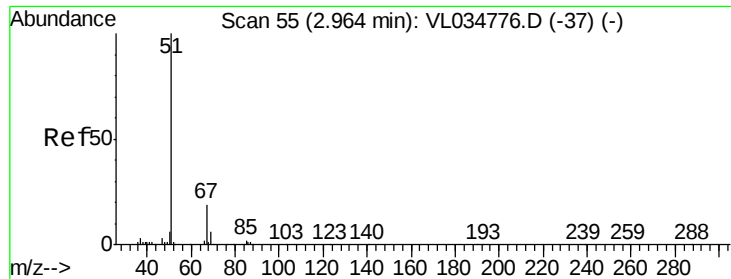
1000000

500000

0

Time--> 2.95 3.00 3.05





#3

Chlorodifluoromethane

Concen: 13.394 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.00 min

Lab File: VL034782.D

Acq: 4 Mar 2020 5:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 51 Resp: 1587427

Ion Ratio Lower Upper

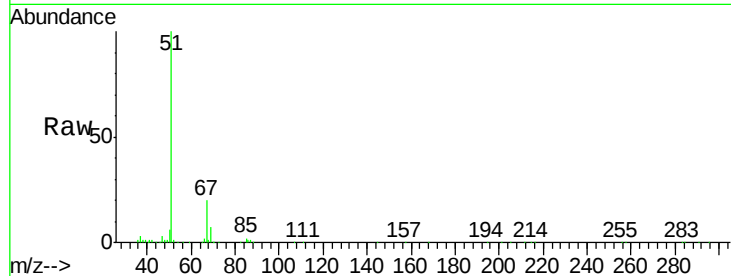
51 100

67 21.0 15.3 22.9

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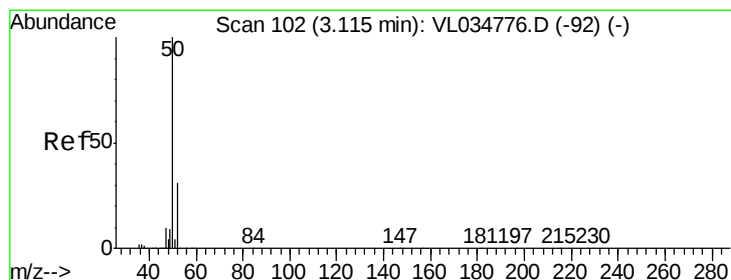
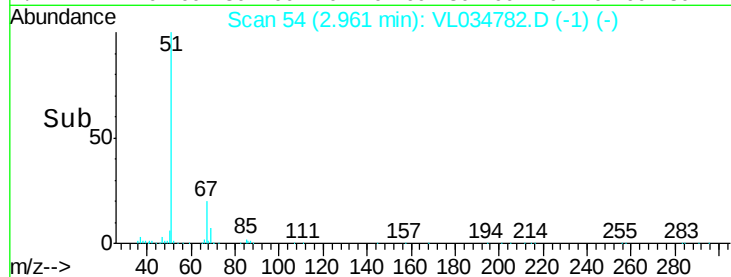
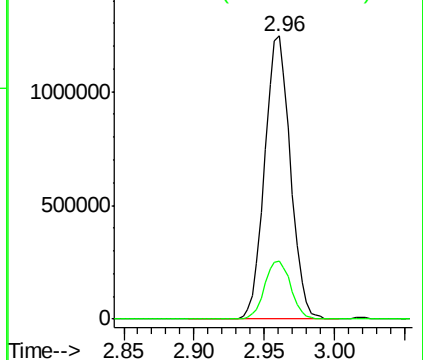
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 13.385 ppbv

RT: 3.11 min Scan# 102

Delta R.T. 0.00 min

Lab File: VL034782.D

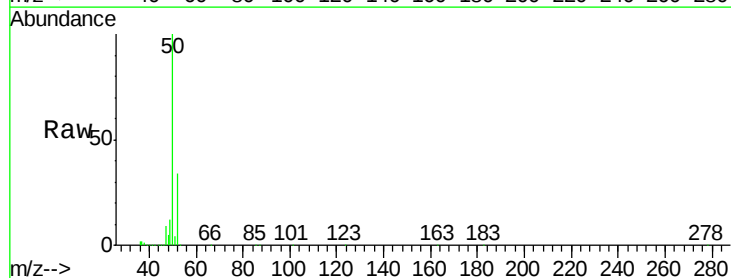
Acq: 4 Mar 2020 5:15

Tgt Ion: 50 Resp: 879989

Ion Ratio Lower Upper

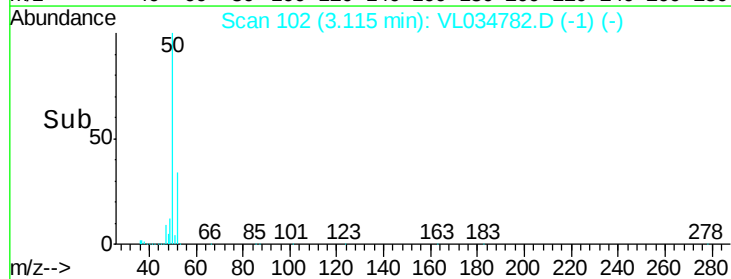
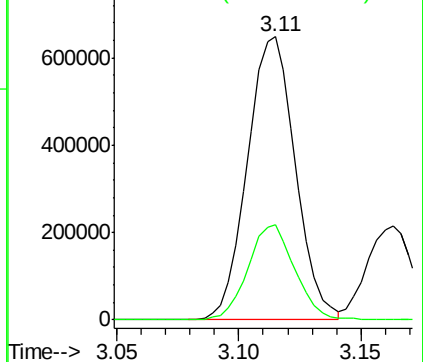
50 100

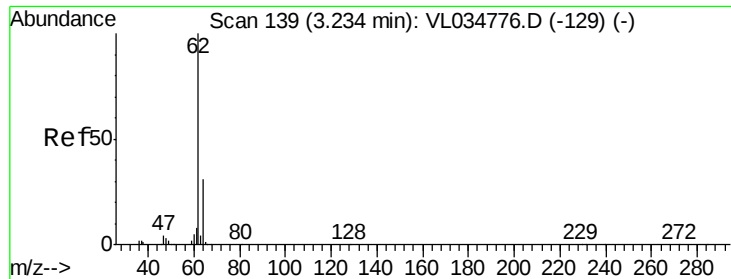
52 33.9 25.0 37.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 13.752 ppbv

RT: 3.23 min Scan# 138

Delta R.T. -0.00 min

Lab File: VL034782.D

Acq: 4 Mar 2020 5:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 888920

Ion Ratio Lower Upper

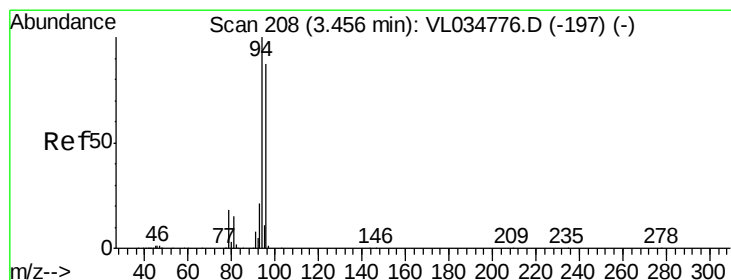
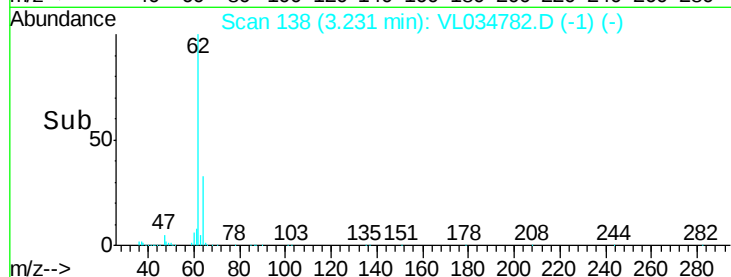
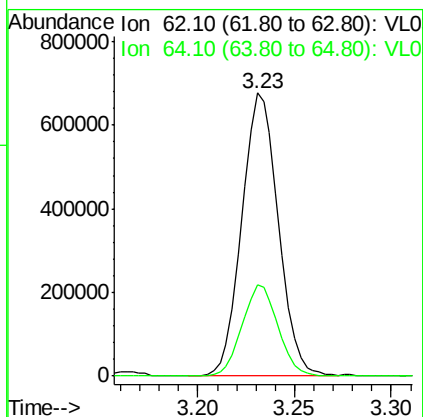
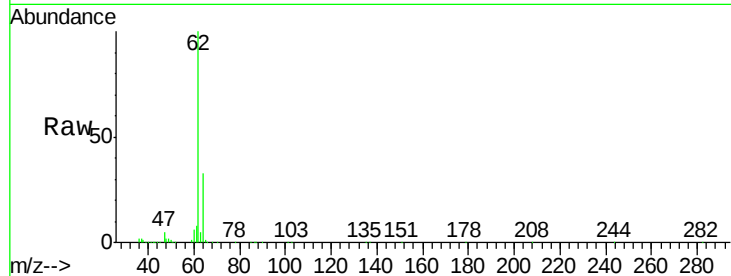
62 100

64 32.5 25.1 37.7

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#6

Bromomethane

Concen: 14.173 ppbv

RT: 3.45 min Scan# 206

Delta R.T. -0.01 min

Lab File: VL034782.D

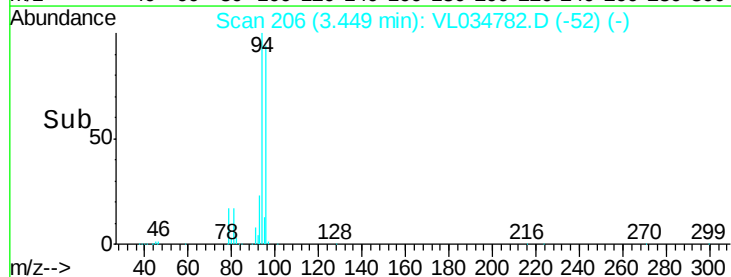
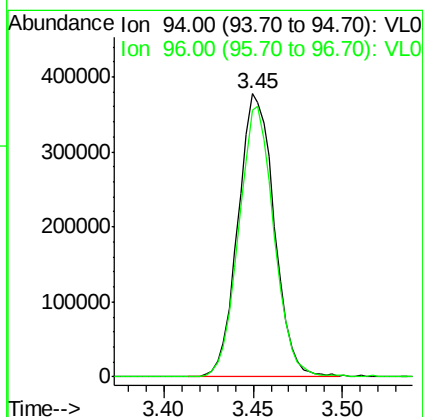
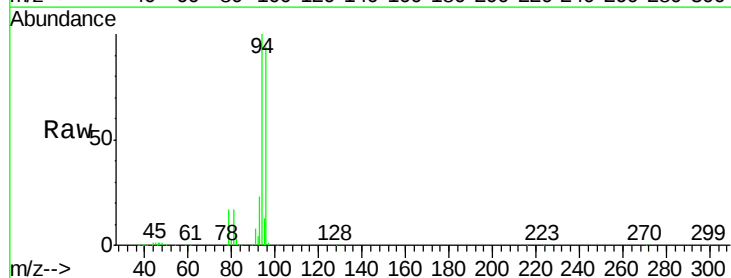
Acq: 4 Mar 2020 5:15

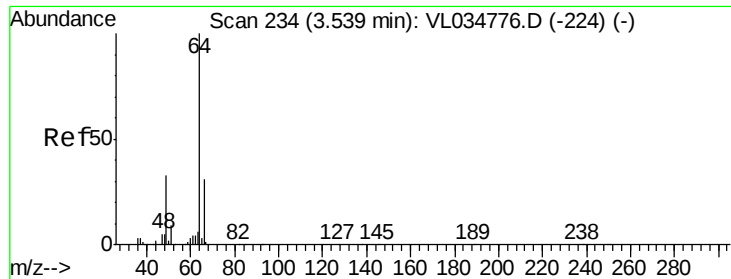
Tgt Ion: 94 Resp: 535871

Ion Ratio Lower Upper

94 100

96 94.4 70.0 105.0





#7

Chloroethane

Concen: 13.603 ppbv

RT: 3.54 min Scan# 233

Delta R.T. -0.00 min

Lab File: VL034782.D

Acq: 4 Mar 2020 5:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 325177

Ion Ratio Lower Upper

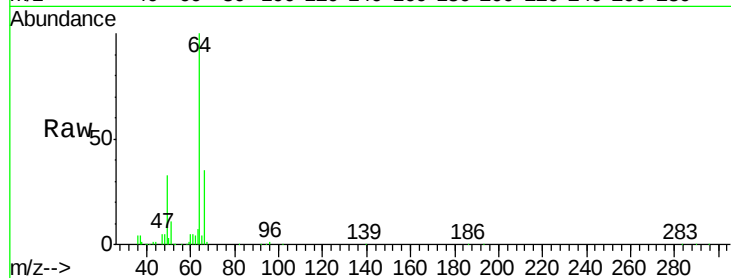
64 100

66 34.7 24.8 37.2

Manual Integrations
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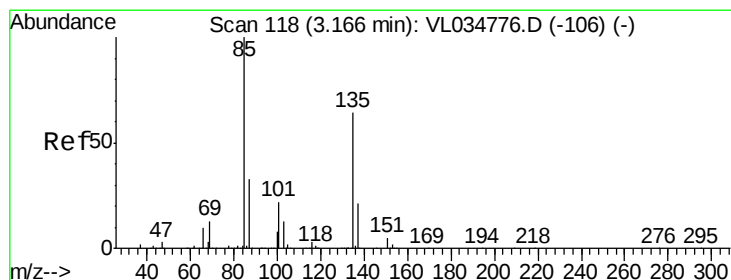
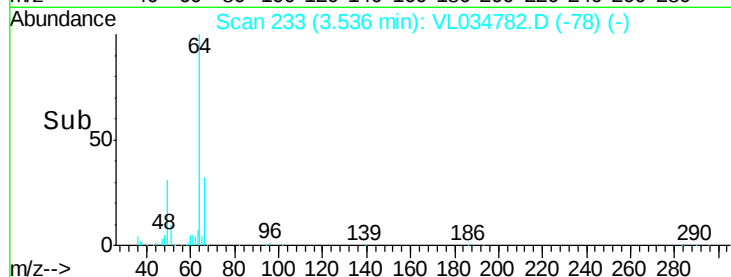
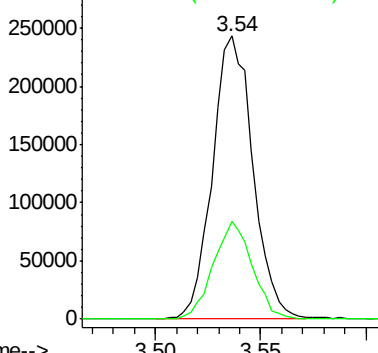
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 12.768 ppbv

RT: 3.16 min Scan# 117

Delta R.T. -0.00 min

Lab File: VL034782.D

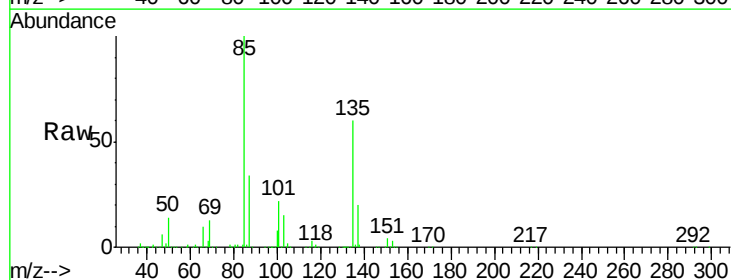
Acq: 4 Mar 2020 5:15

Tgt Ion: 85 Resp: 1946377

Ion Ratio Lower Upper

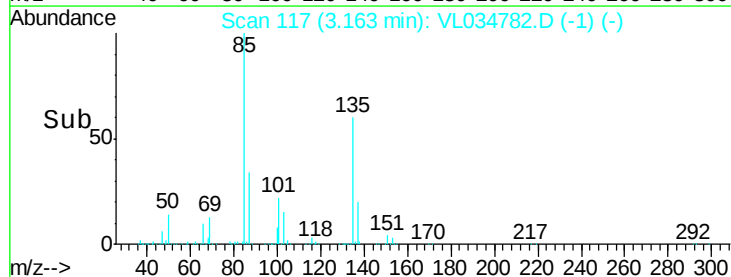
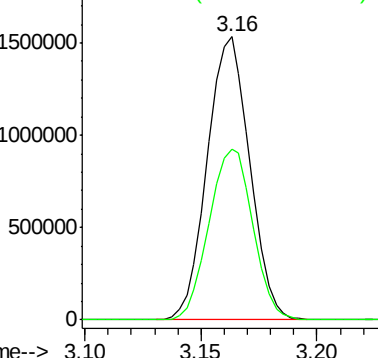
85 100

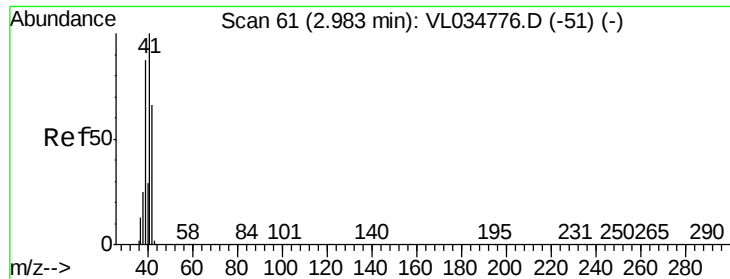
135 62.5 49.4 74.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 13.358 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.00 min

Lab File: VL034782.D

Acq: 4 Mar 2020 5:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 658011

Ion Ratio Lower Upper

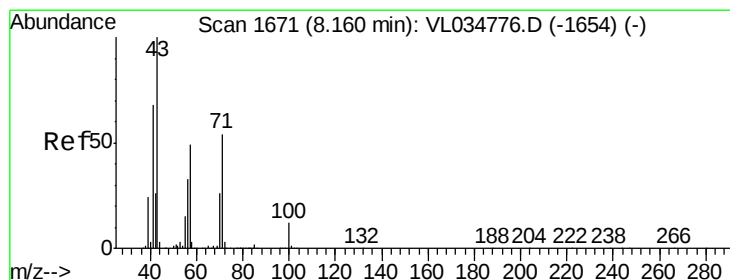
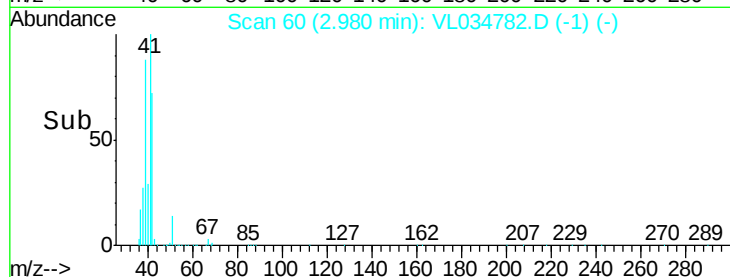
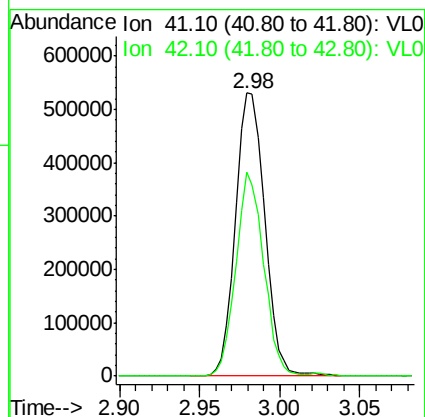
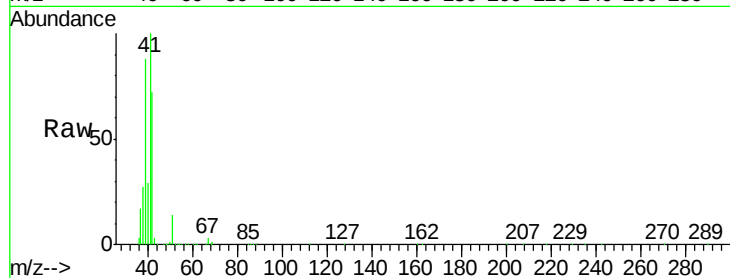
41 100

42 69.1 55.6 83.4

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#10

Heptane

Concen: 14.518 ppbv

RT: 8.15 min Scan# 1669

Delta R.T. -0.01 min

Lab File: VL034782.D

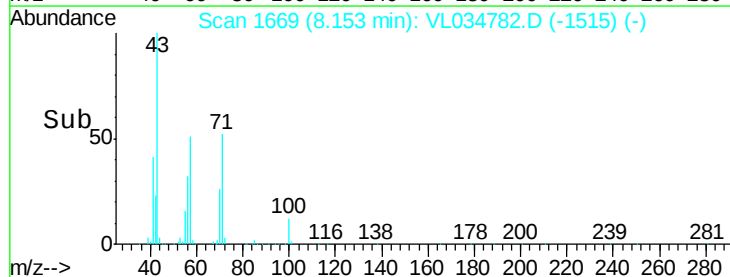
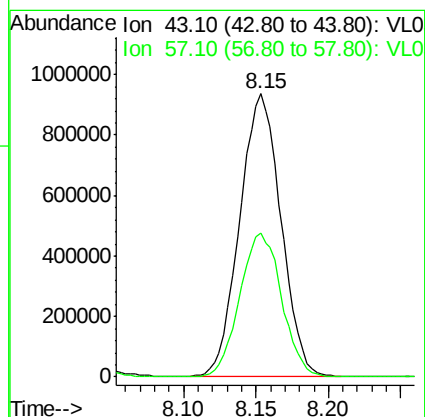
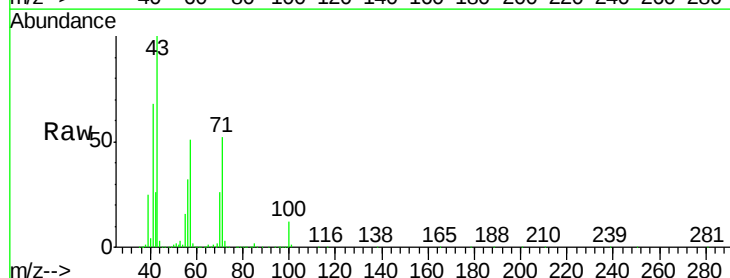
Acq: 4 Mar 2020 5:15

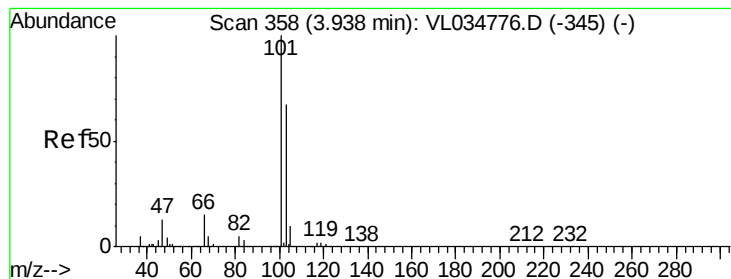
Tgt Ion: 43 Resp: 1844019

Ion Ratio Lower Upper

43 100

57 51.8 40.5 60.7





#11

Trichlorofluoromethane

Concen: 13.691 ppbv

RT: 3.93 min Scan# 357

Delta R.T. -0.00 min

Lab File: VL034782.D

Acq: 4 Mar 2020 5:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:101 Resp: 2070741

Ion Ratio Lower Upper

101 100

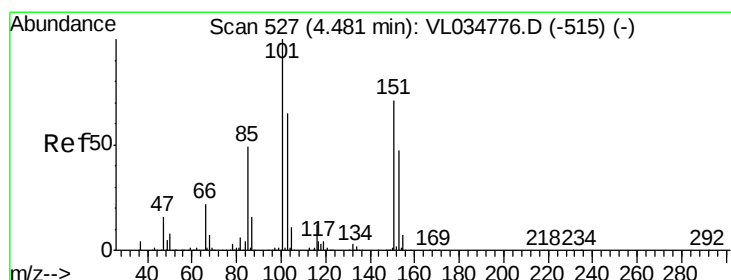
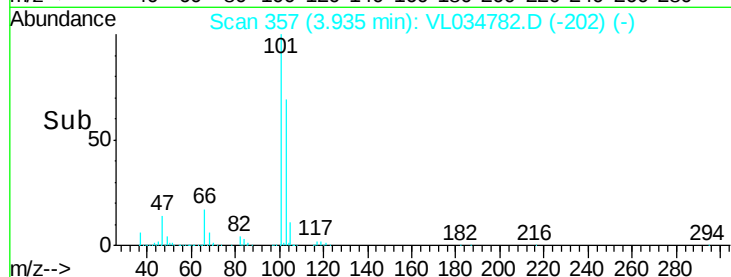
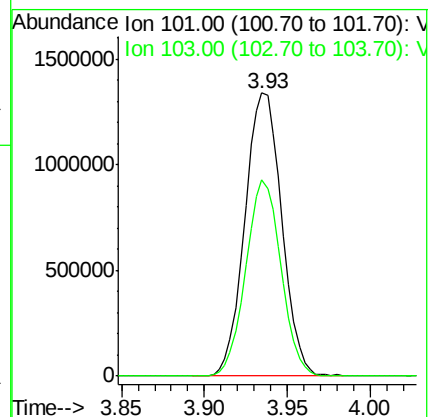
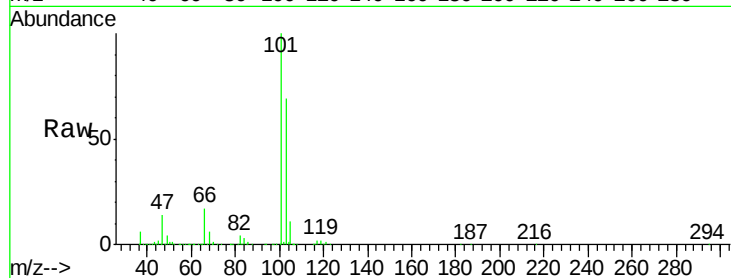
103 69.3 53.6 80.4

Manual Integrations

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#12

1,1,2-Trichlorotrifluoroethane

Concen: 13.540 ppbv

RT: 4.48 min Scan# 526

Delta R.T. -0.00 min

Lab File: VL034782.D

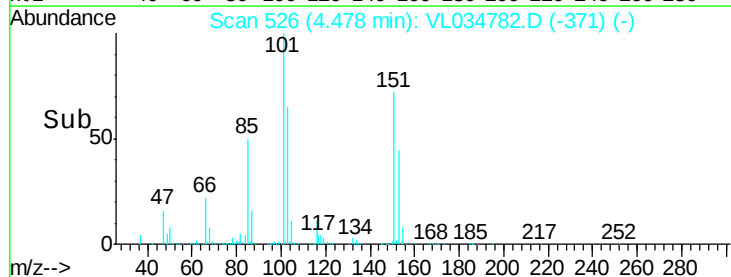
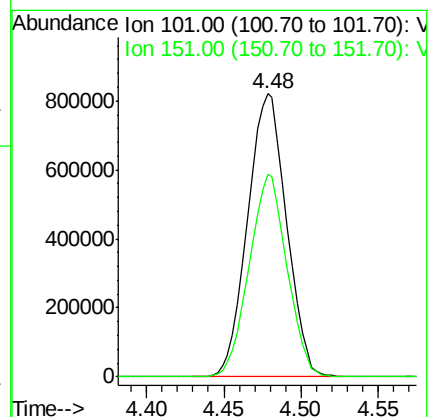
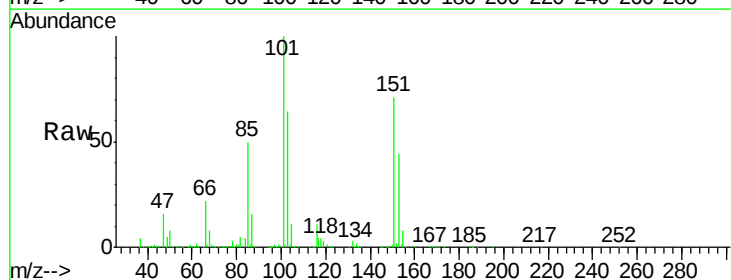
Acq: 4 Mar 2020 5:15

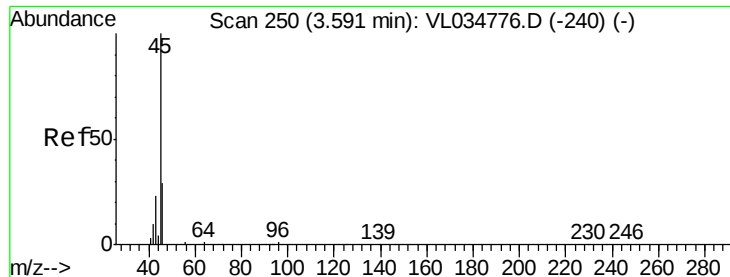
Tgt Ion:101 Resp: 1438193

Ion Ratio Lower Upper

101 100

151 69.5 56.6 85.0





#13

Ethanol

Concen: 11.957 ppbv

RT: 3.59 min Scan# 249

Delta R.T. -0.00 min

Lab File: VL034782.D

Acq: 4 Mar 2020 5:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 45 Resp: 185579

Ion Ratio Lower Upper

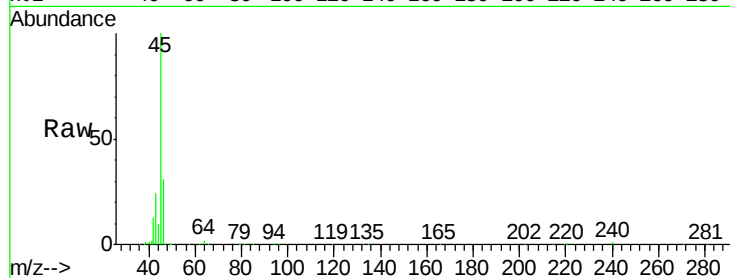
45 100

46 35.9 14.7 58.9

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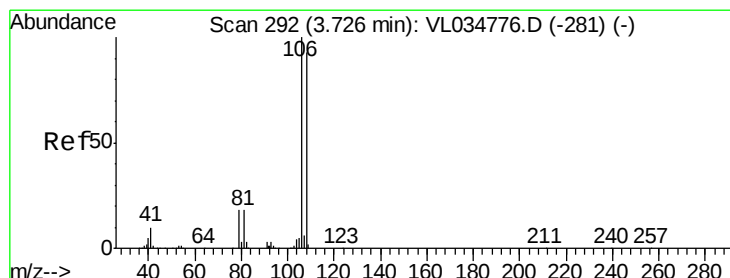
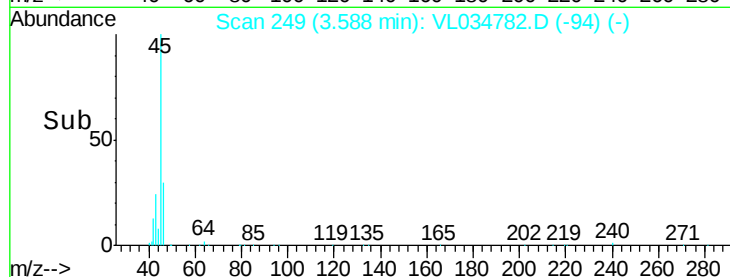
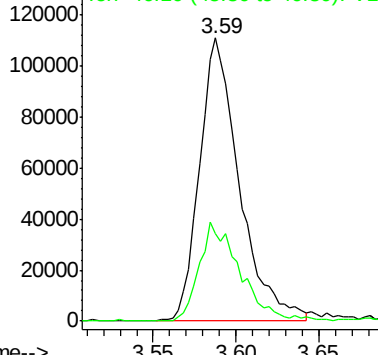
apatel

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 13.912 ppbv

RT: 3.72 min Scan# 291

Delta R.T. -0.00 min

Lab File: VL034782.D

Acq: 4 Mar 2020 5:15

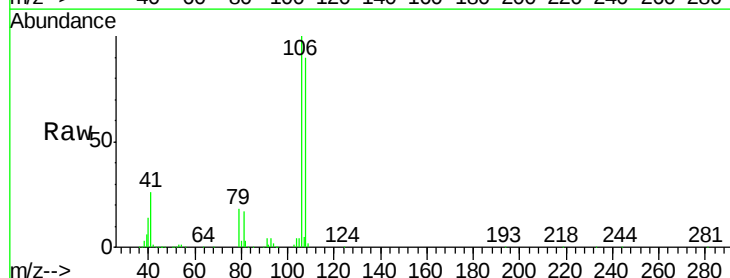
Tgt Ion: 108 Resp: 619770

Ion Ratio Lower Upper

108 100

106 108.5 83.5 125.3

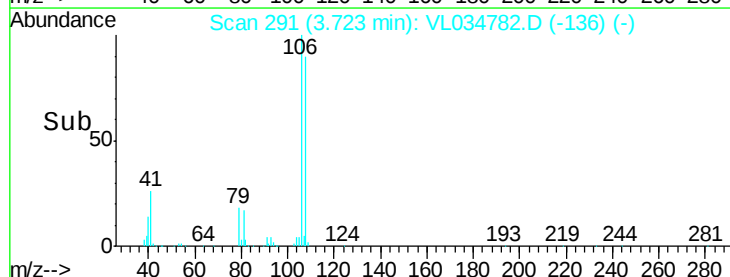
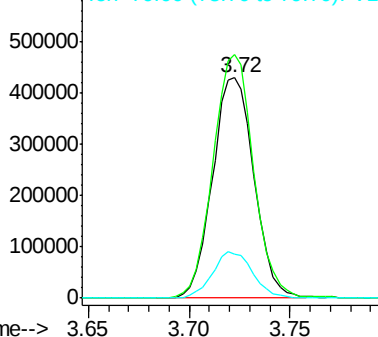
79 20.4 15.6 23.4

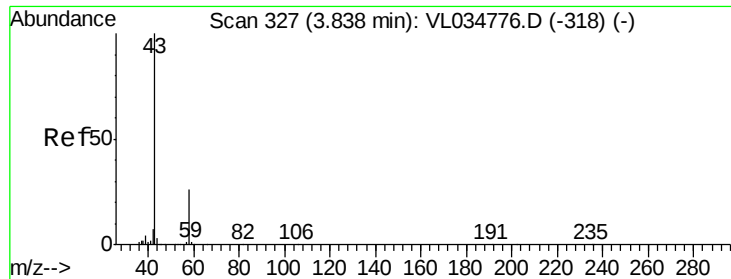


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





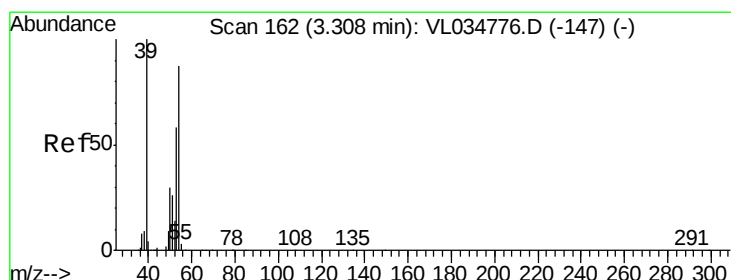
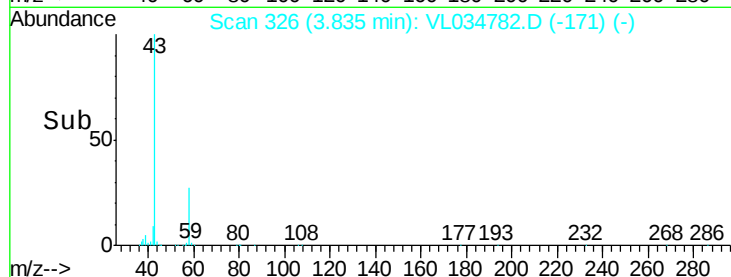
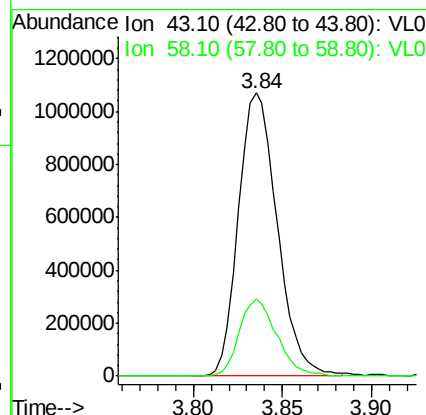
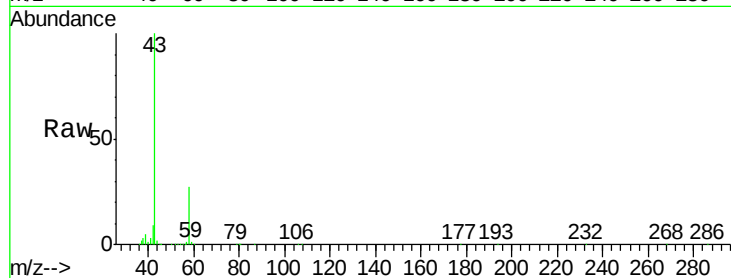
#15
Acetone
Concen: 12.964 ppbv
RT: 3.84 min Scan# 326
Delta R.T. -0.00 min
Lab File: VL034782.D
Acq: 4 Mar 2020 5:15

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 1618757
Ion Ratio Lower Upper
43 100
58 26.5 21.0 31.6

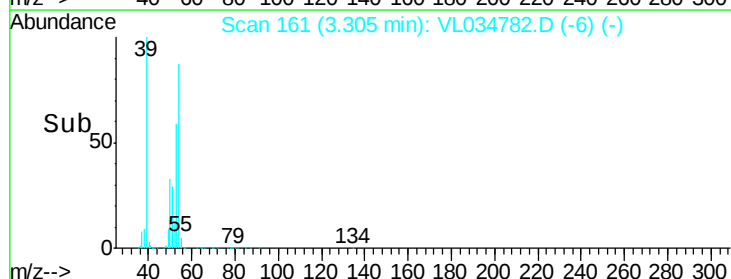
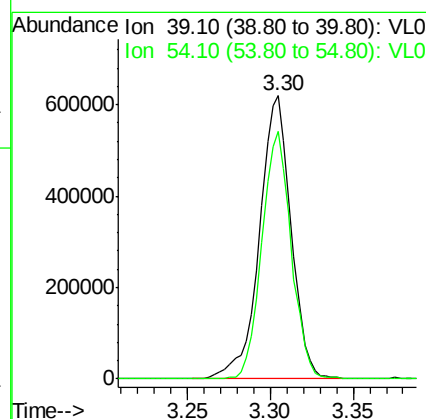
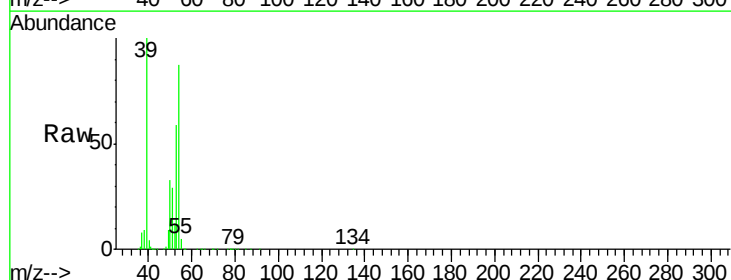
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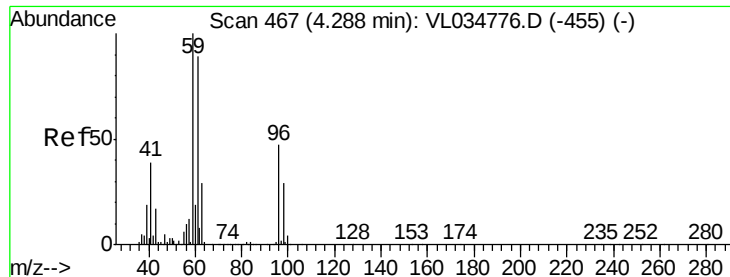
apatel
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#16
1,3-Butadiene
Concen: 14.101 ppbv
RT: 3.30 min Scan# 161
Delta R.T. -0.00 min
Lab File: VL034782.D
Acq: 4 Mar 2020 5:15

Tgt Ion: 39 Resp: 817146
Ion Ratio Lower Upper
39 100
54 81.5 64.2 96.2





#17

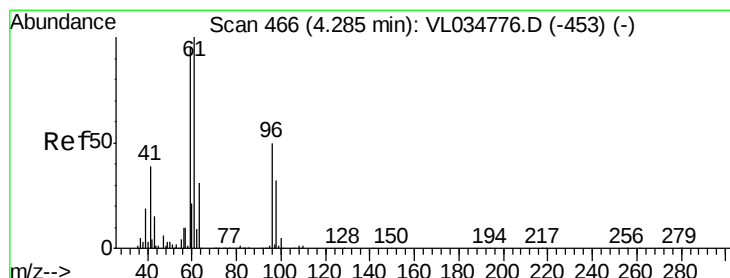
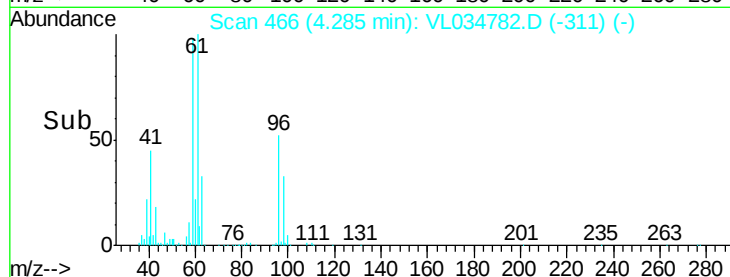
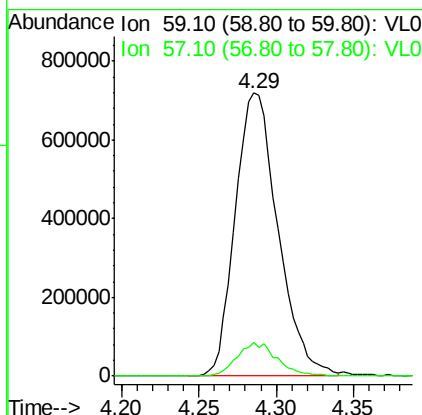
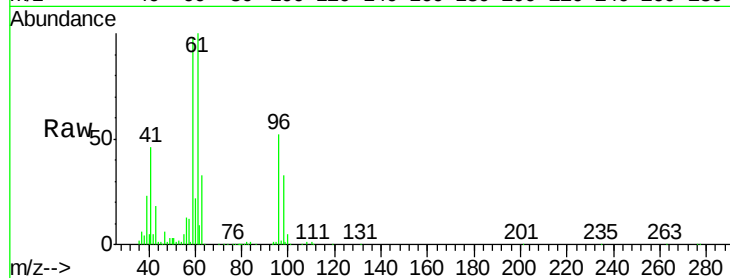
tert-Butyl alcohol
Concen: 14.441 ppbv
RT: 4.29 min Scan# 466
Delta R.T. -0.00 min
Lab File: VL034782.D
Acq: 4 Mar 2020 5:15

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 59 Resp: 1382467
Ion Ratio Lower Upper
59 100
57 11.3 8.6 13.0

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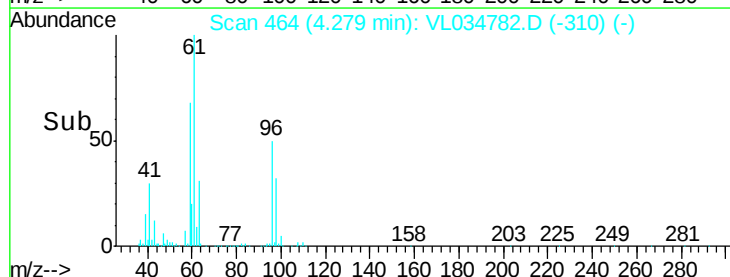
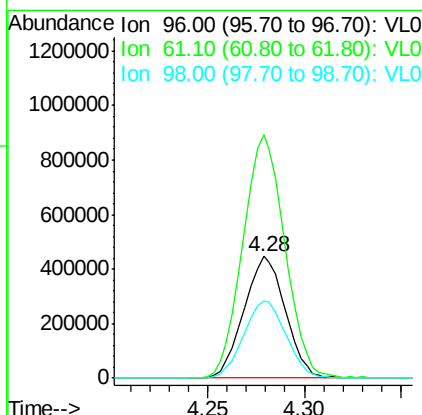
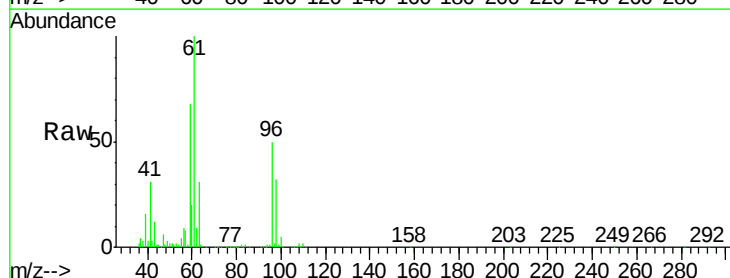
apatel
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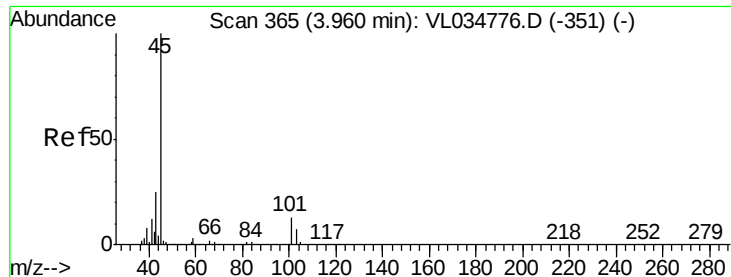


#18

1,1-Dichloroethene
Concen: 13.937 ppbv
RT: 4.28 min Scan# 464
Delta R.T. -0.01 min
Lab File: VL034782.D
Acq: 4 Mar 2020 5:15

Tgt Ion: 96 Resp: 664820
Ion Ratio Lower Upper
96 100
61 199.9 159.5 239.3
98 63.9 51.1 76.7





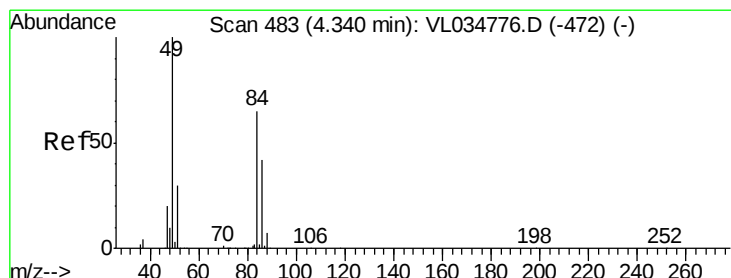
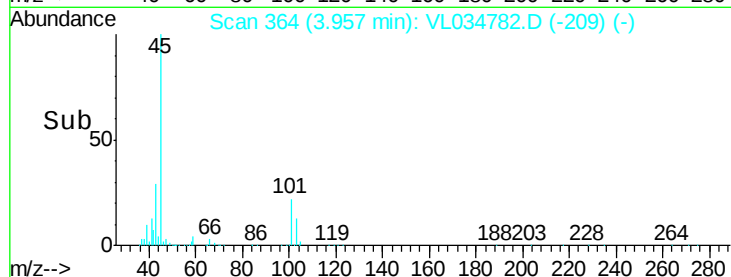
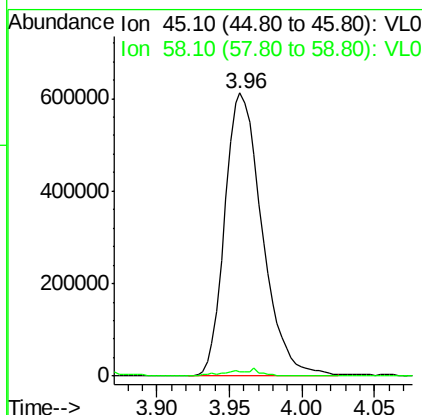
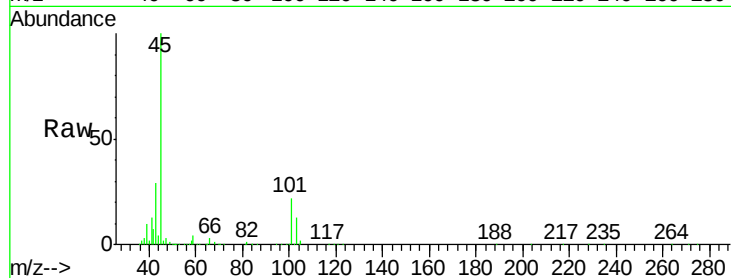
#19
Isopropyl Alcohol
Concen: 14.661 ppbv
RT: 3.96 min Scan# 364
Delta R.T. -0.00 min
Lab File: VL034782.D
Acq: 4 Mar 2020 5:15

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 45 Resp: 1092016
Ion Ratio Lower Upper
45 100
58 2.0 1.8 2.8

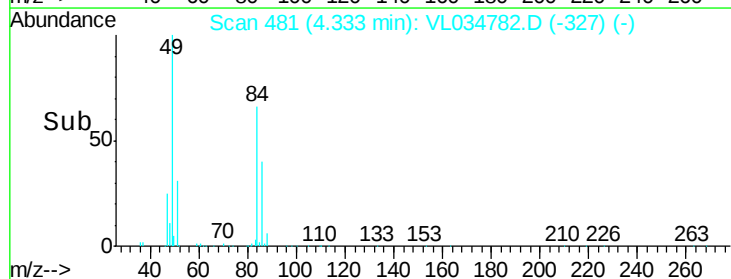
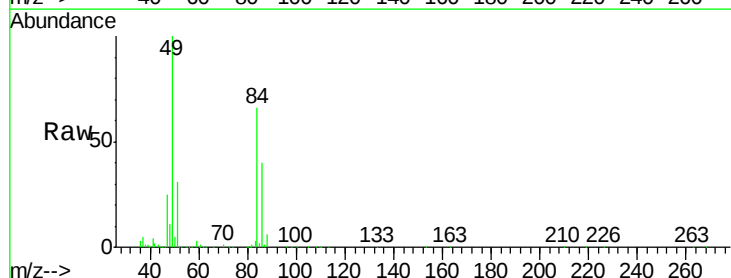
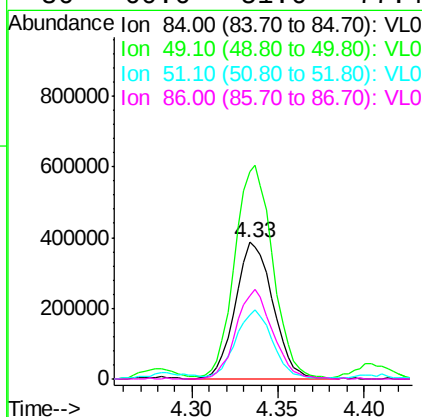
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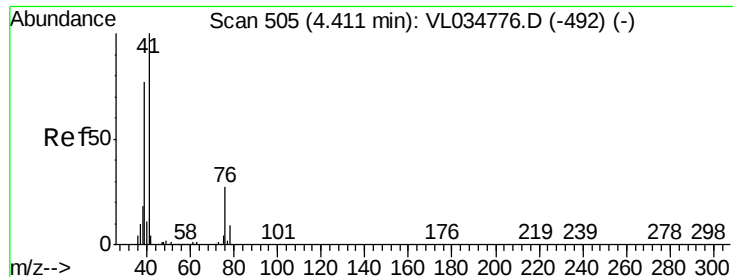
apatel
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#20
Methylene Chloride
Concen: 12.721 ppbv
RT: 4.33 min Scan# 481
Delta R.T. -0.01 min
Lab File: VL034782.D
Acq: 4 Mar 2020 5:15

Tgt Ion: 84 Resp: 588412
Ion Ratio Lower Upper
84 100
49 149.7 123.2 184.8
51 46.7 37.4 56.2
86 60.6 51.6 77.4





#21

Allvl Chloride

Concen: 14.409 ppbv

RT: 4.40 min Scan# 503

Delta R.T. -0.01 min

Lab File: VL034782.D

Acq: 4 Mar 2020 5:15

Instrument :

MSVOA_L

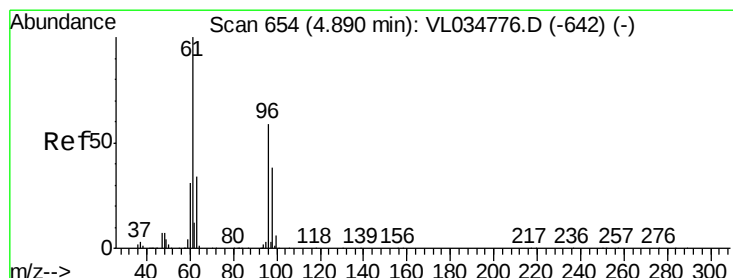
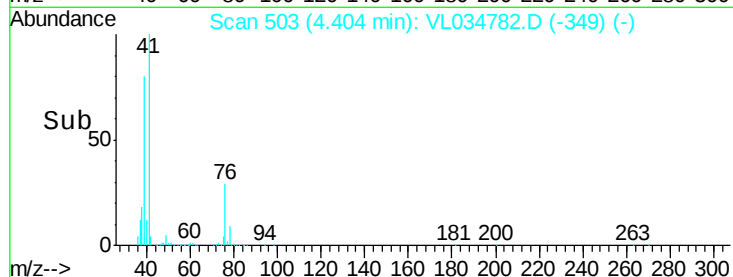
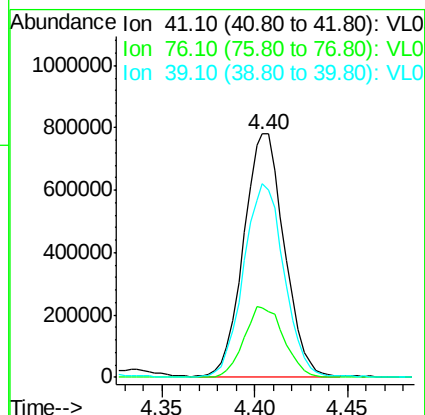
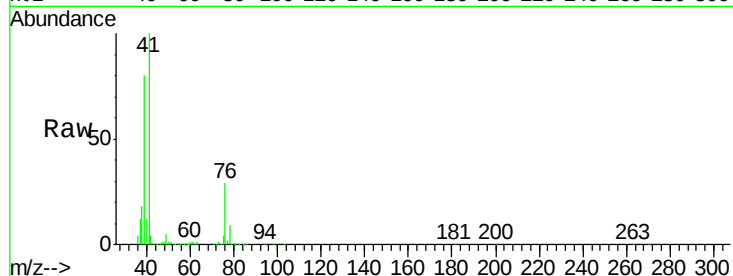
ClientSampled :

VSTDIC015

Tot Ion:	41	Resp:	1178477
Ion	Ratio	Lower	Upper
41	100		
76	28.9	22.5	33.7
39	80.4	65.0	97.6

Manual Integrations
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3/4/2020 4:45:34 PM



#22

trans-1,2-Dichloroethene

Concen: 14.701 ppbv

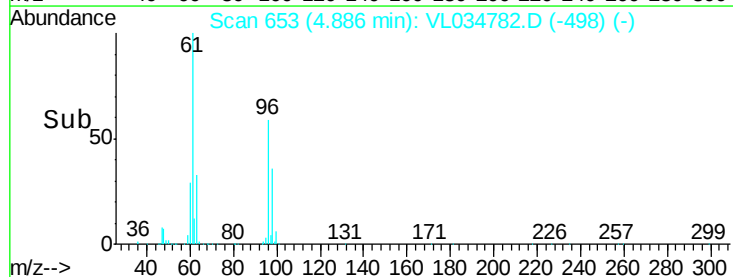
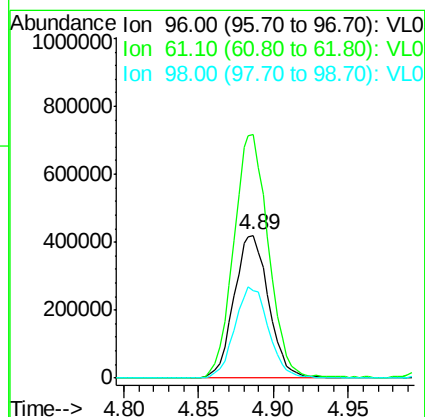
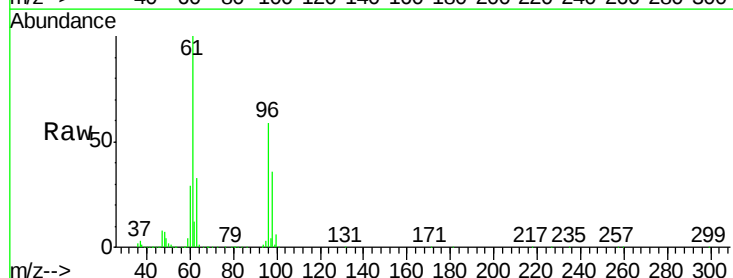
RT: 4.89 min Scan# 653

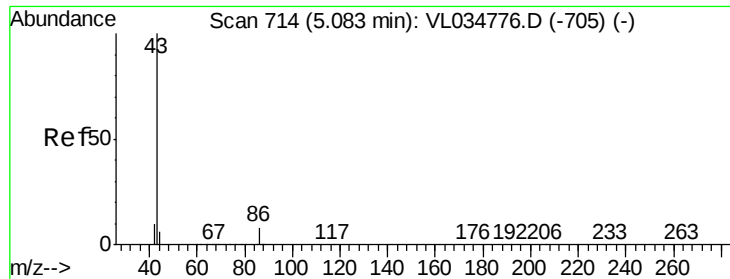
Delta R.T. -0.00 min

Lab File: VL034782.D

Acq: 4 Mar 2020 5:15

Tgt Ion:	96	Resp:	677420
Ion	Ratio	Lower	Upper
96	100		
61	170.4	135.2	202.8
98	61.0	50.8	76.2





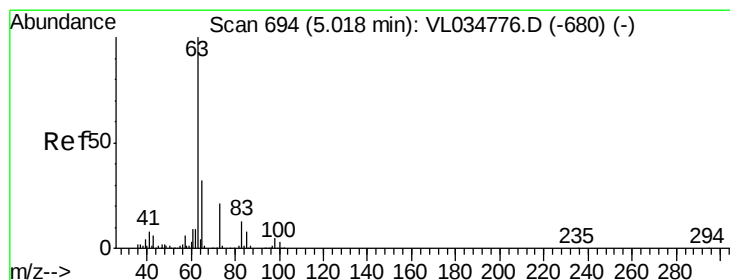
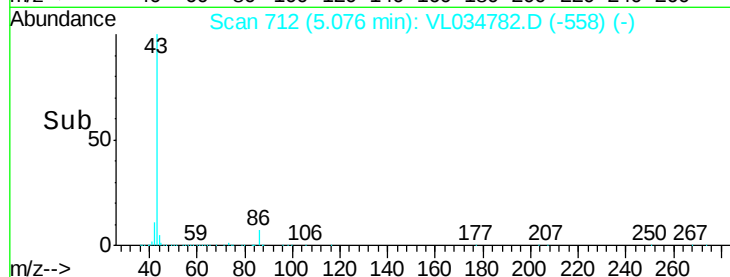
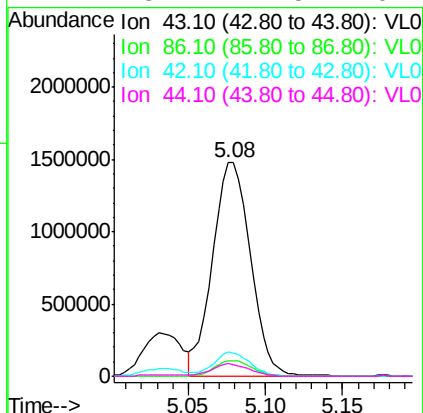
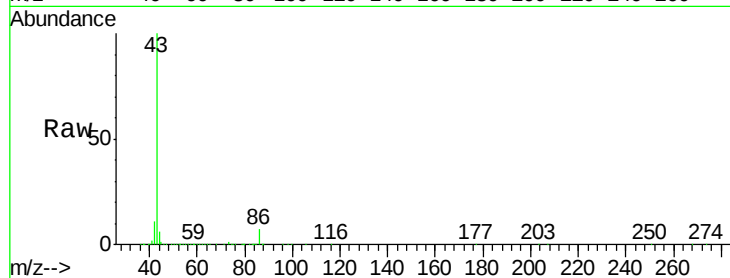
#23
 Vinyl Acetate
 Concen: 14.842 ppbv
 RT: 5.08 min Scan# 712
 Delta R.T. -0.01 min
 Lab File: VL034782.D
 Acq: 4 Mar 2020 5:15

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
86	7.2	5.9	8.9	
42	11.2	8.2	12.2	
44	5.7	4.5	6.7	

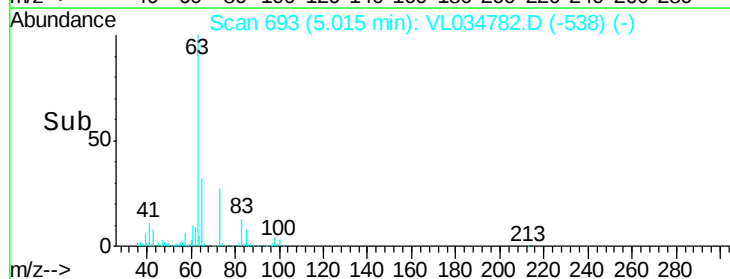
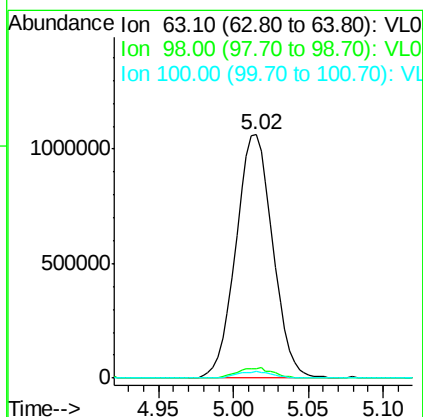
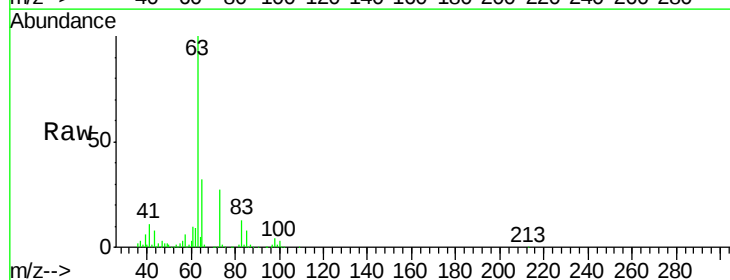
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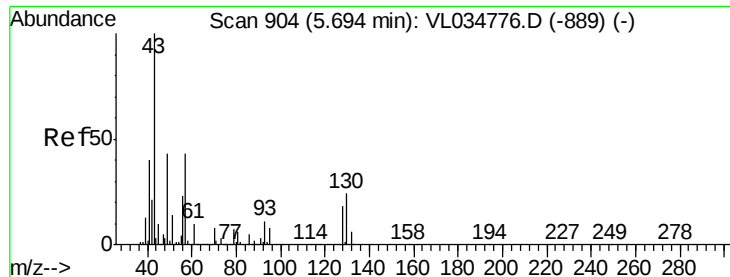
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#24
 1,1-Dichloroethane
 Concen: 13.477 ppbv
 RT: 5.02 min Scan# 693
 Delta R.T. -0.00 min
 Lab File: VL034782.D
 Acq: 4 Mar 2020 5:15

Tgt Ion	Ion	Ratio	Lower	Upper
63	100			
98	4.0	2.3	6.8	
100	2.8	1.5	4.4	





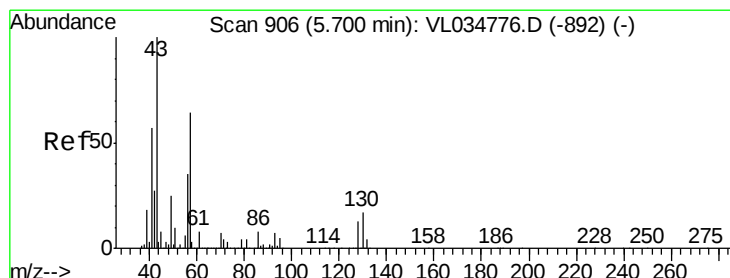
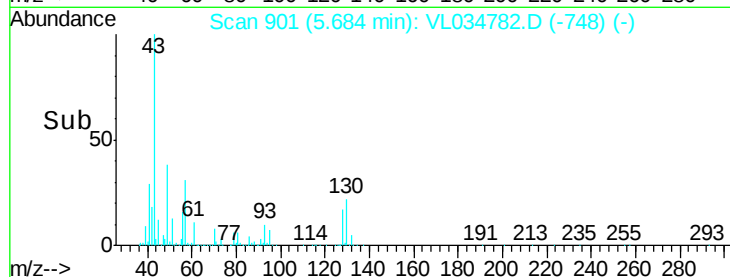
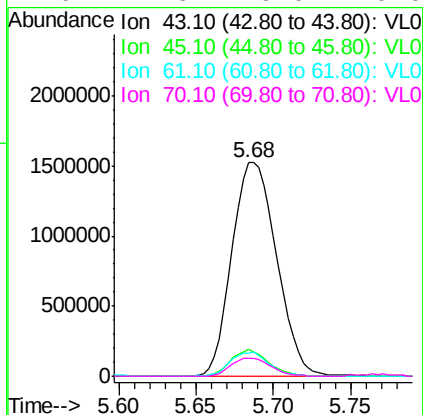
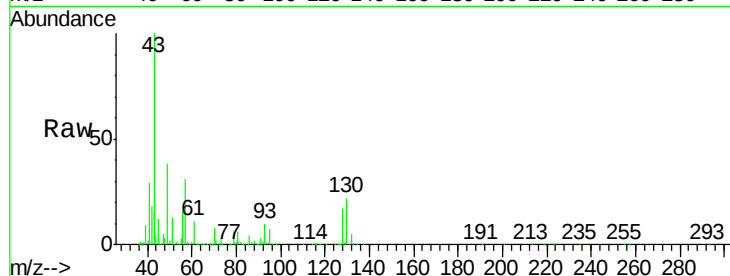
#25
Ethyl Acetate
Concen: 13.811 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.01 min
Lab File: VL034782.D
Acq: 4 Mar 2020 5:15

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
43	100		
45	10.5	8.2	12.4
61	9.7	7.5	11.3
70	7.6	6.0	9.0

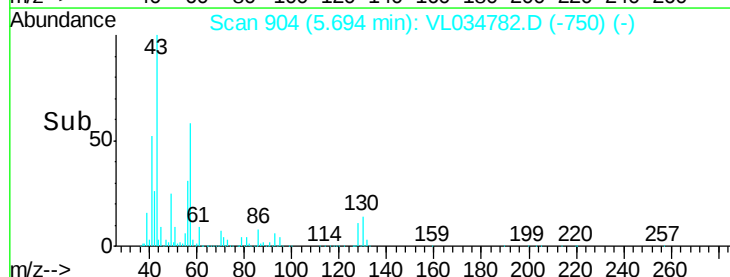
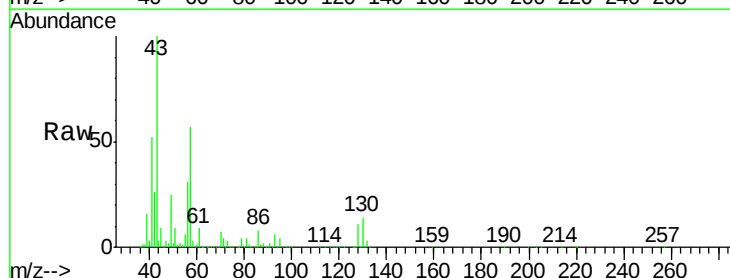
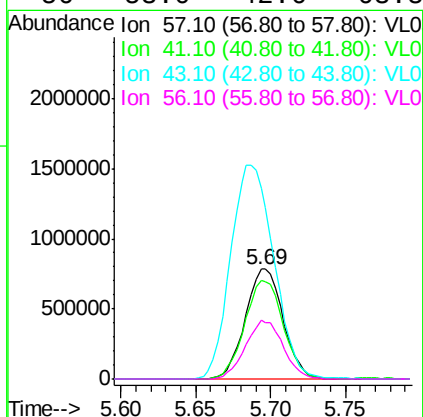
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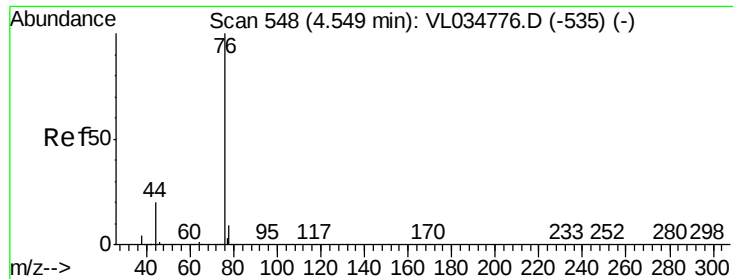
apatel
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#26
Hexane
Concen: 13.561 ppbv
RT: 5.69 min Scan# 904
Delta R.T. -0.01 min
Lab File: VL034782.D
Acq: 4 Mar 2020 5:15

Tgt Ion	Ratio	Lower	Upper
57	100		
41	92.0	72.0	108.0
43	222.8	179.1	268.7
56	53.0	42.6	63.8





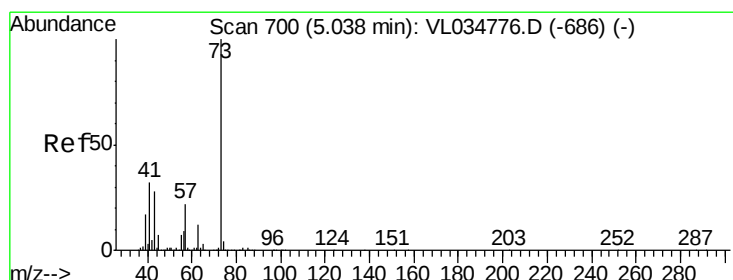
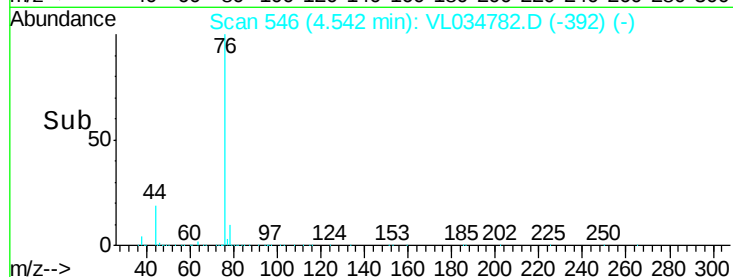
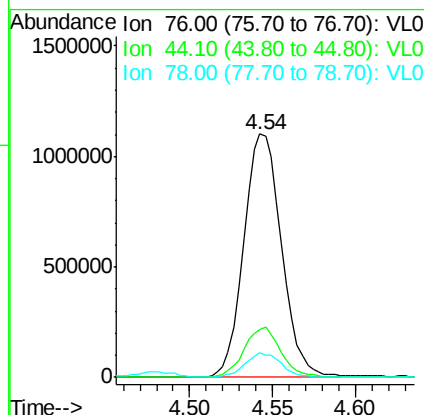
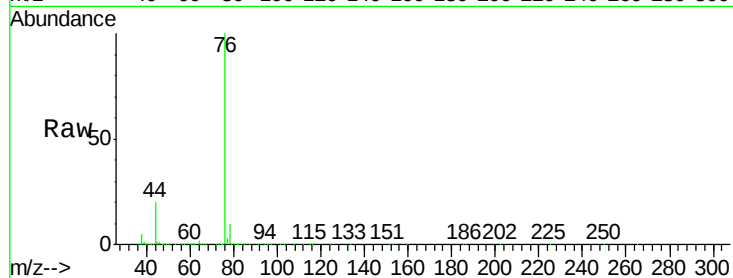
#27
Carbon Disulfide
Concen: 15.313 ppbv
RT: 4.54 min Scan# 546
Delta R.T. -0.01 min
Lab File: VL034782.D
Acq: 4 Mar 2020 5:15

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
76	100		
44	19.6	16.1	24.1
78	9.7	7.5	11.3

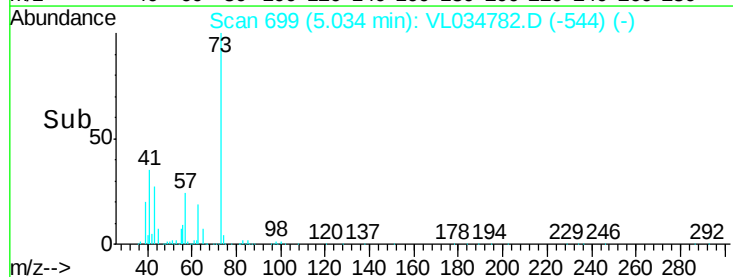
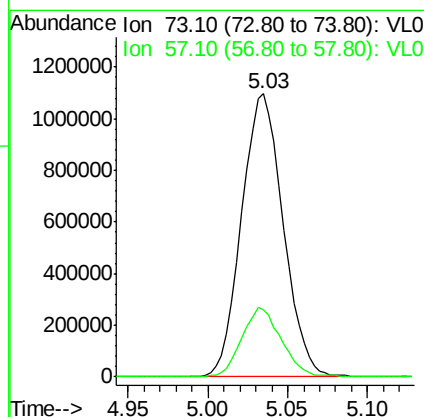
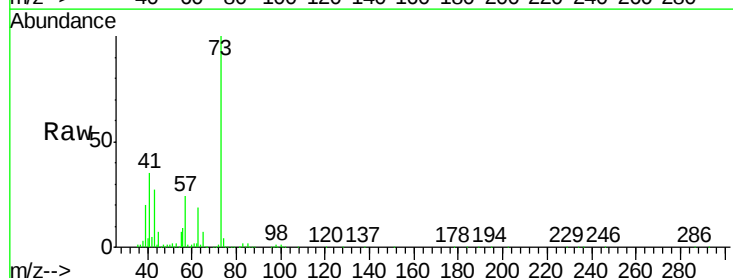
Manual Integrations
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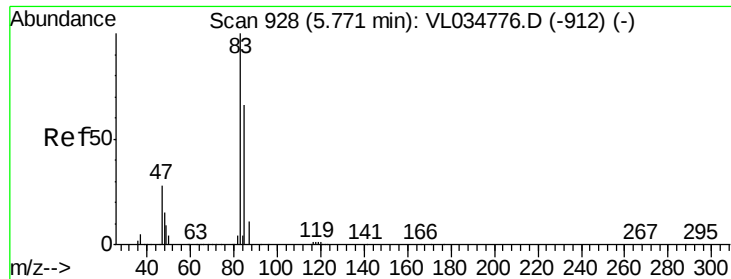
apatel
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#28
Methyl tert-Butyl Ether
Concen: 13.440 ppbv
RT: 5.03 min Scan# 699
Delta R.T. -0.00 min
Lab File: VL034782.D
Acq: 4 Mar 2020 5:15

Tgt Ion	Ratio	Lower	Upper
73	100		
57	23.4	18.5	27.7





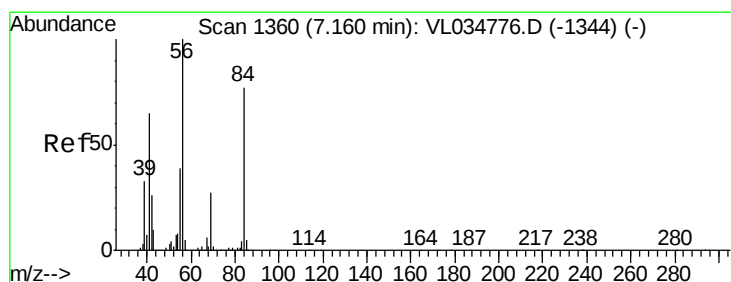
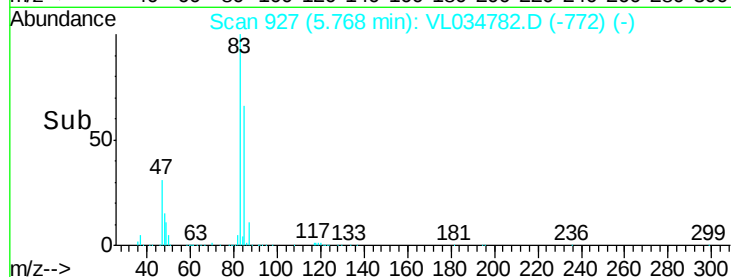
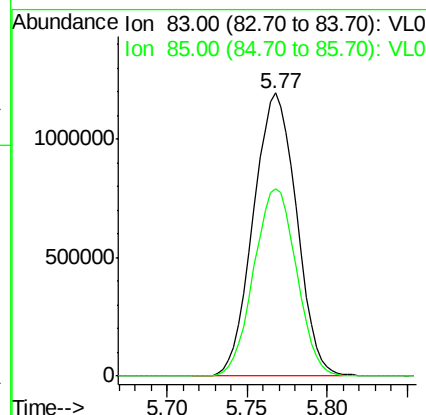
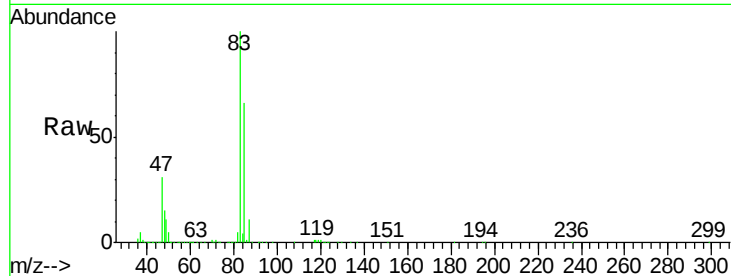
#29
Chloroform
Concen: 13.648 ppbv
RT: 5.77 min Scan# 927
Delta R.T. -0.00 min
Lab File: VL034782.D
Acq: 4 Mar 2020 5:15

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 2211487
Ion Ratio Lower Upper
83 100
85 66.2 53.0 79.4

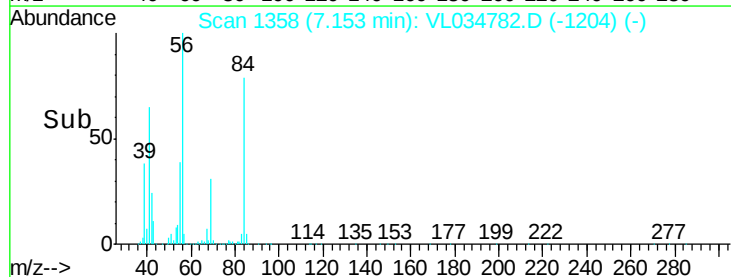
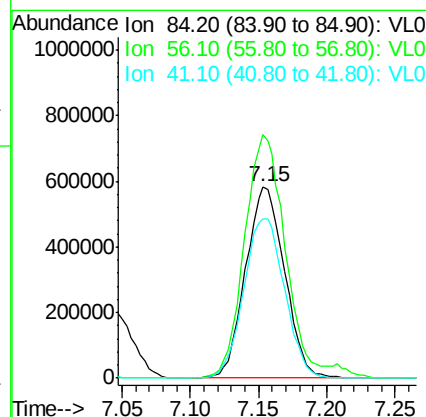
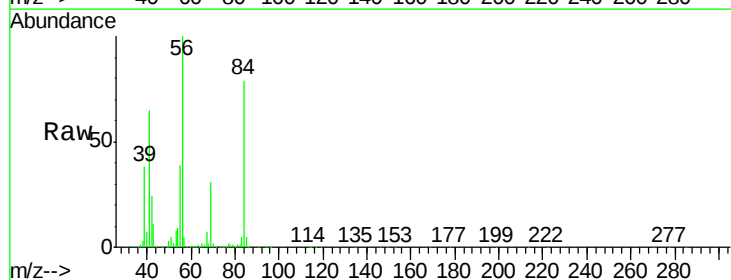
Manual Integrations
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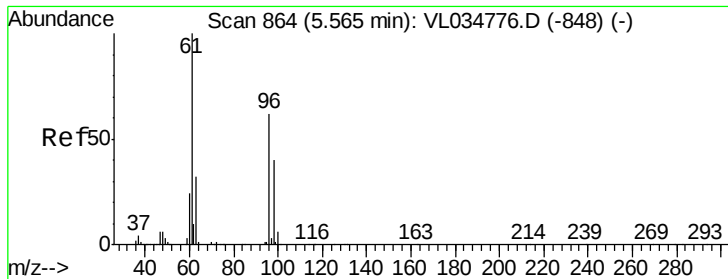
apatel
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#30
Cyclohexane
Concen: 14.623 ppbv
RT: 7.15 min Scan# 1358
Delta R.T. -0.01 min
Lab File: VL034782.D
Acq: 4 Mar 2020 5:15

Tgt Ion: 84 Resp: 1152950
Ion Ratio Lower Upper
84 100
56 136.3 113.2 169.8
41 87.4 70.2 105.4





#31

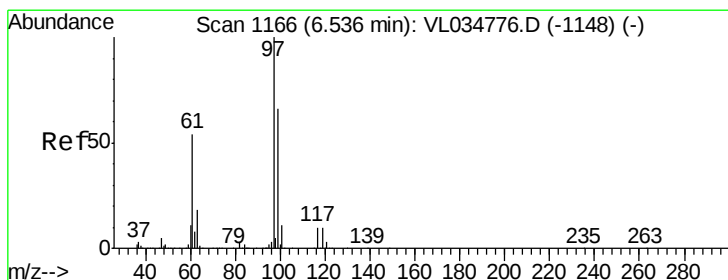
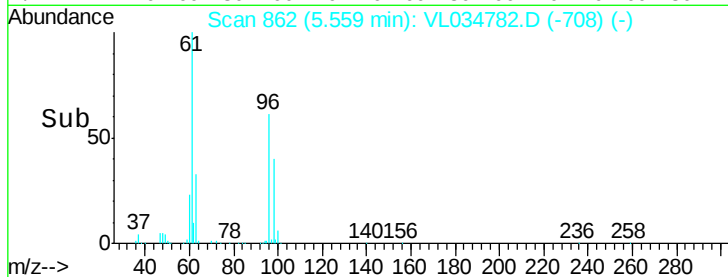
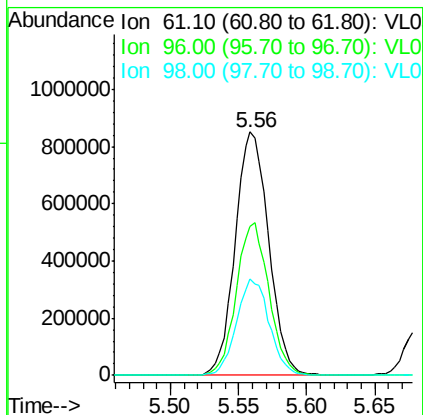
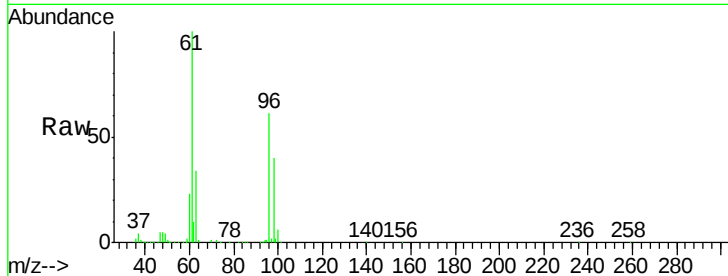
cis-1,2-Dichloroethene
 Concen: 14.510 ppbv
 RT: 5.56 min Scan# 862
 Delta R.T. -0.01 min
 Lab File: VL034782.D
 Acq: 4 Mar 2020 5:15

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
61	100		
96	61.1	49.7	74.5
98	39.8	31.9	47.9

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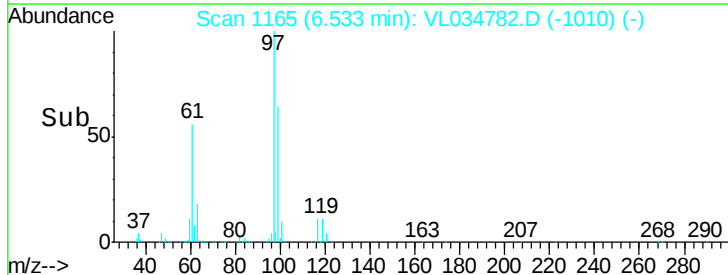
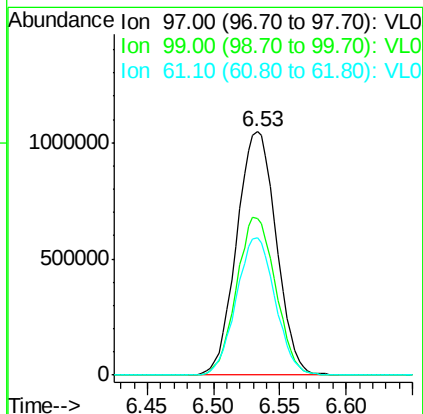
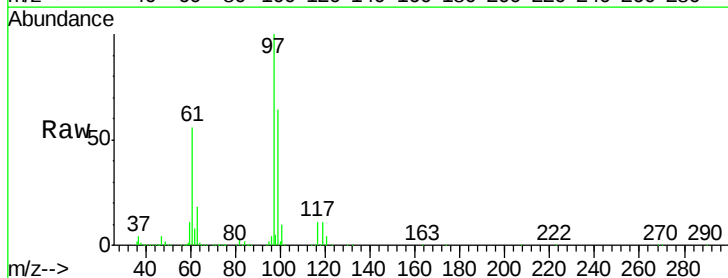
apatel
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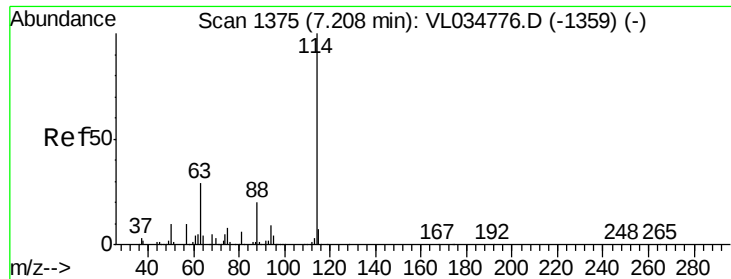


#32

1,1,1-Trichloroethane
 Concen: 14.302 ppbv
 RT: 6.53 min Scan# 1165
 Delta R.T. -0.00 min
 Lab File: VL034782.D
 Acq: 4 Mar 2020 5:15

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.7	77.5
61	55.6	43.4	65.0





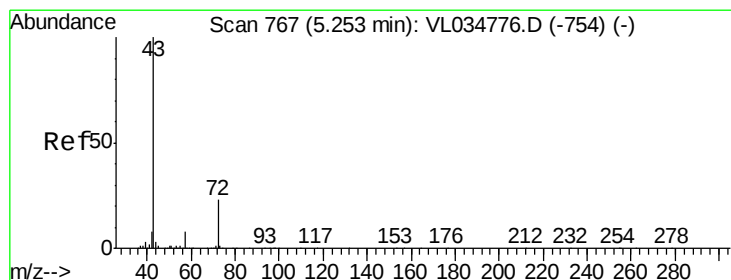
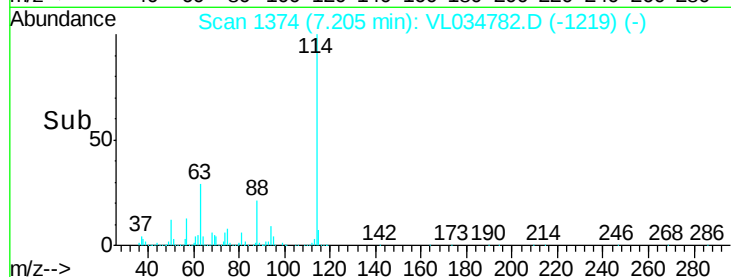
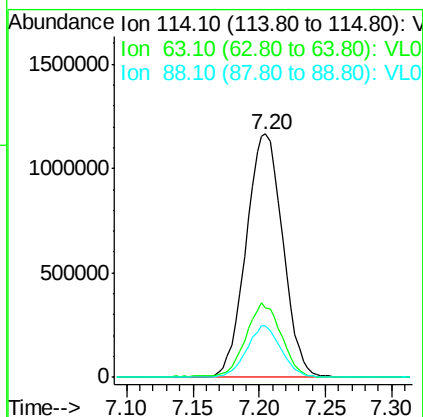
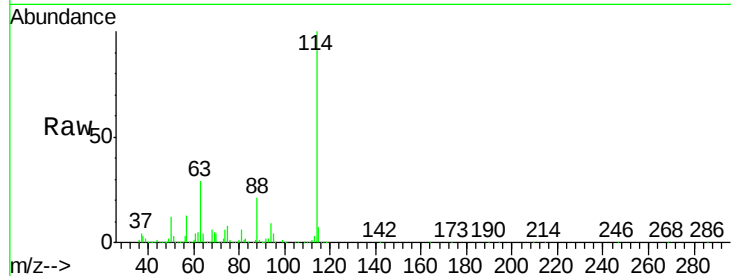
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1374
 Delta R.T. -0.00 min
 Lab File: VL034782.D
 Acq: 4 Mar 2020 5:15

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
114	100		
63	30.0	23.6	35.4
88	20.0	15.8	23.8

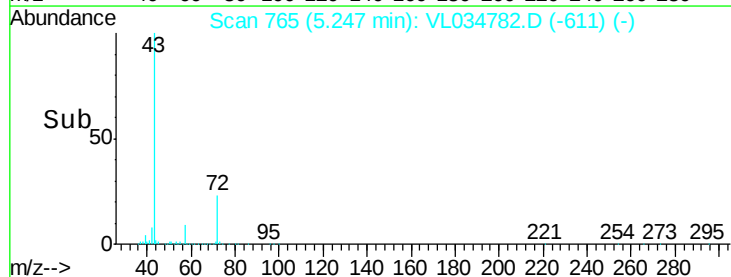
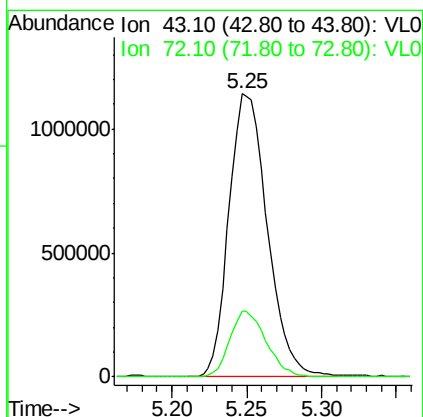
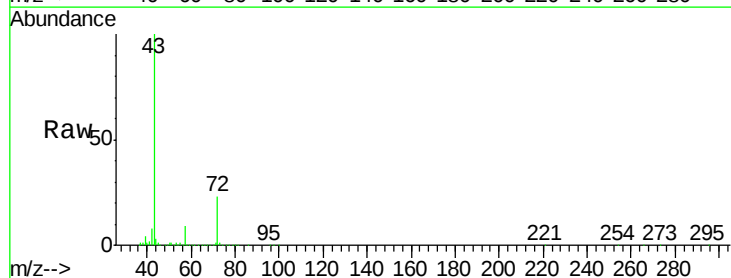
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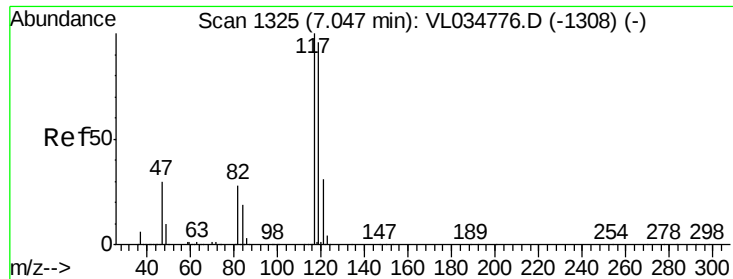
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#34
 2-Butanone
 Concen: 14.342 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T. -0.01 min
 Lab File: VL034782.D
 Acq: 4 Mar 2020 5:15

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.4	17.5	26.3





#35

Carbon Tetrachloride

Concen: 14.945 ppbv

RT: 7.04 min Scan# 1324

Delta R.T. -0.00 min

Lab File: VL034782.D

Acq: 4 Mar 2020 5:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:117 Resp: 2250596

Ion Ratio Lower Upper

117 100

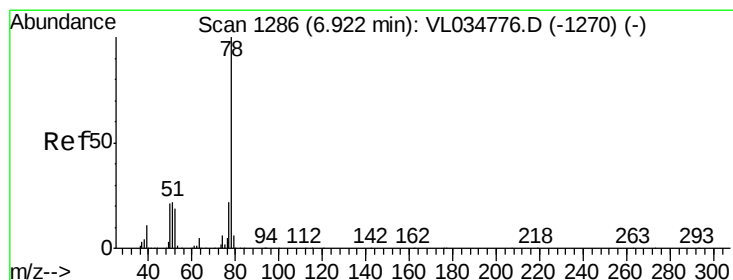
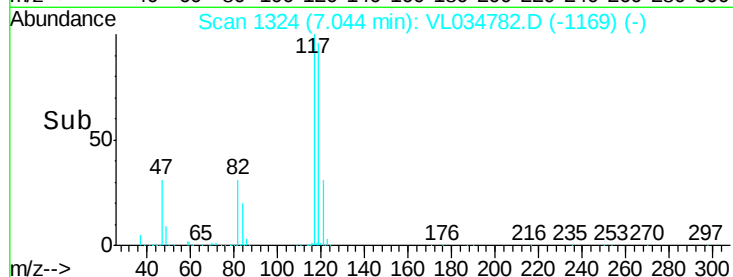
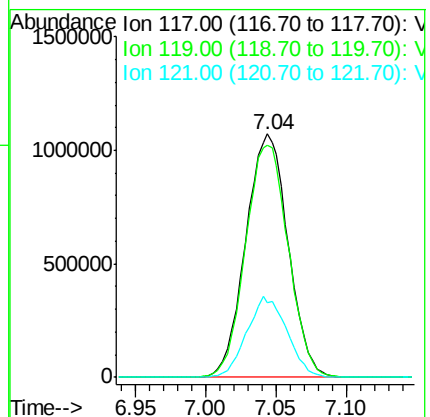
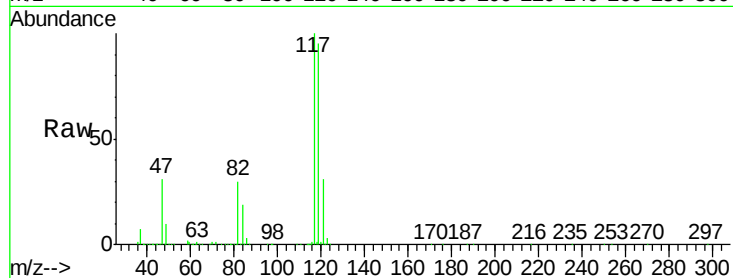
119 95.5 76.8 115.2

121 30.7 24.6 37.0

Manual Integrations
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#36

Benzene

Concen: 13.975 ppbv

RT: 6.92 min Scan# 1284

Delta R.T. -0.01 min

Lab File: VL034782.D

Acq: 4 Mar 2020 5:15

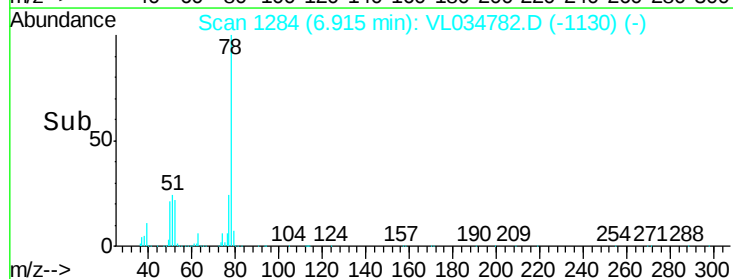
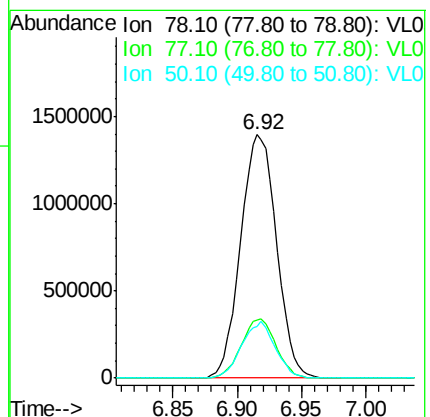
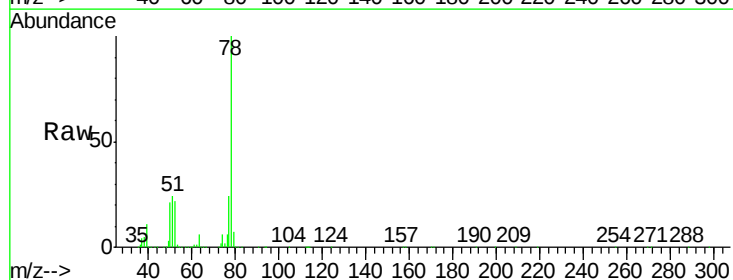
Tgt Ion: 78 Resp: 2705151

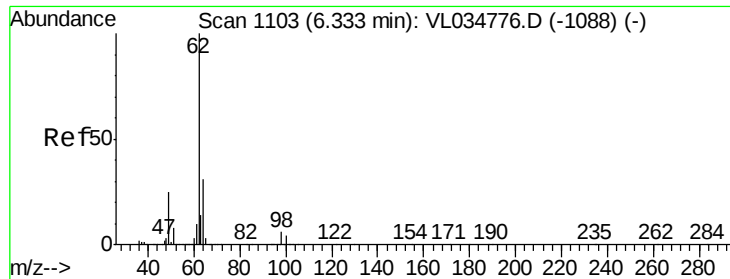
Ion Ratio Lower Upper

78 100

77 23.8 18.0 27.0

50 21.2 16.9 25.3





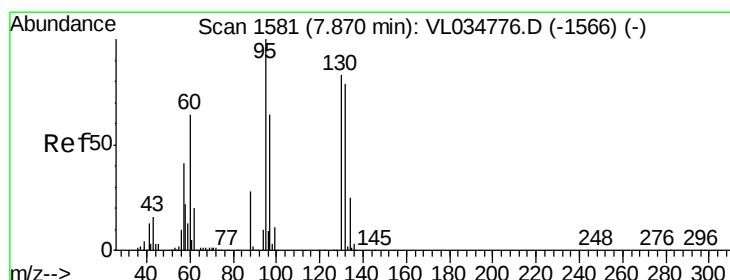
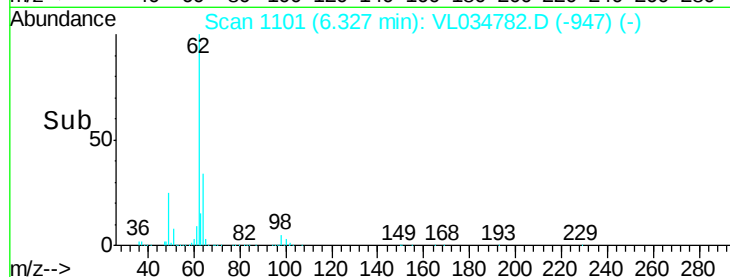
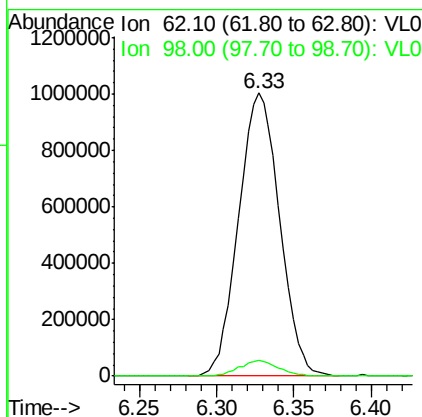
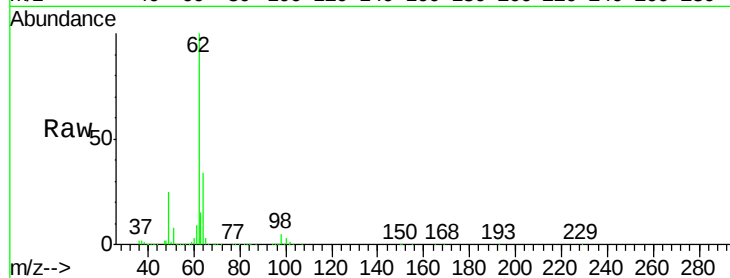
#37
 1,2-Dichloroethane
 Concen: 15.022 ppbv
 RT: 6.33 min Scan# 1101
 Delta R.T. -0.01 min
 Lab File: VL034782.D
 Acq: 4 Mar 2020 5:15

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 62 Resp: 1850295
 Ion Ratio Lower Upper
 62 100
 98 5.4 4.4 6.6

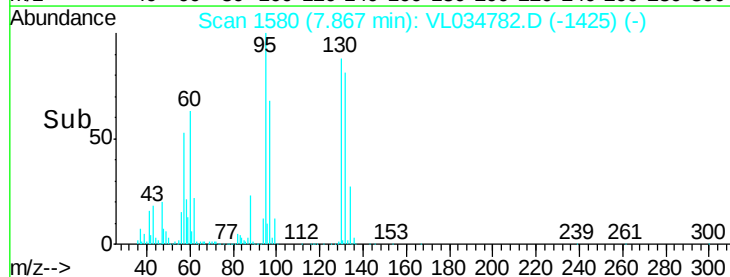
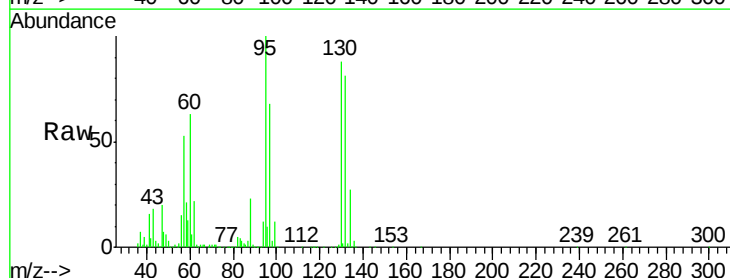
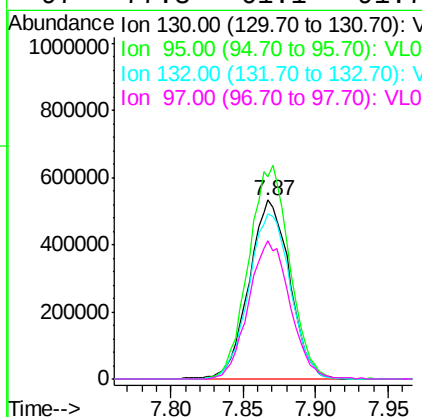
Manual Integrations
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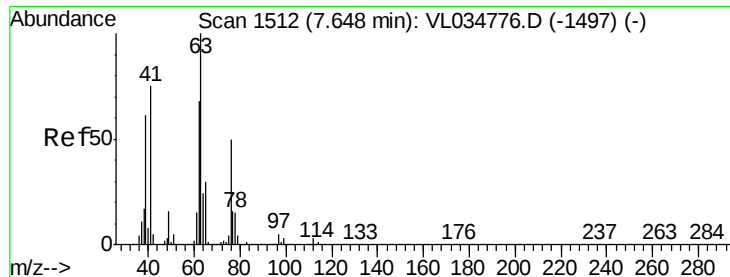
apatel
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#38
 Trichloroethene
 Concen: 13.909 ppbv
 RT: 7.87 min Scan# 1580
 Delta R.T. -0.00 min
 Lab File: VL034782.D
 Acq: 4 Mar 2020 5:15

Tgt Ion: 130 Resp: 1039688
 Ion Ratio Lower Upper
 130 100
 95 113.3 95.8 143.8
 132 92.2 76.1 114.1
 97 77.3 61.1 91.7





#39

1,2-Dichloropropane

Concen: 14.303 ppbv

RT: 7.64 min Scan# 1510

Delta R.T. -0.01 min

Lab File: VL034782.D

Acq: 4 Mar 2020 5:15

Instrument :

MSVOA_L

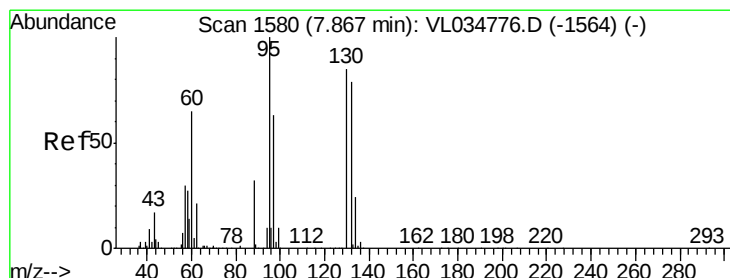
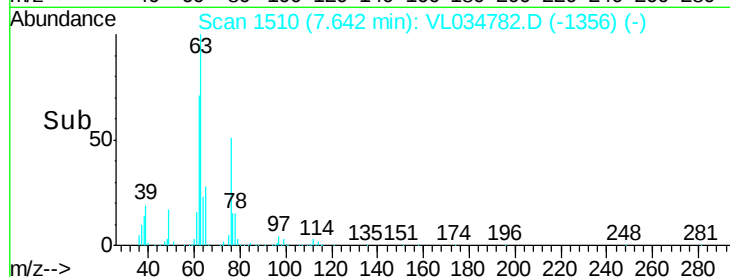
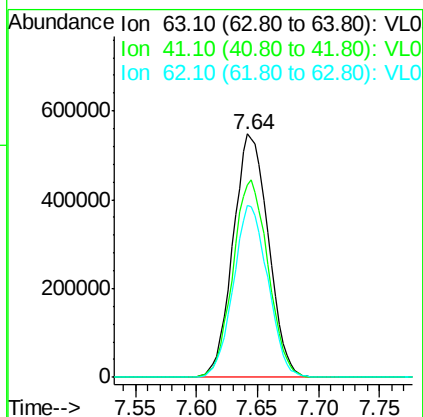
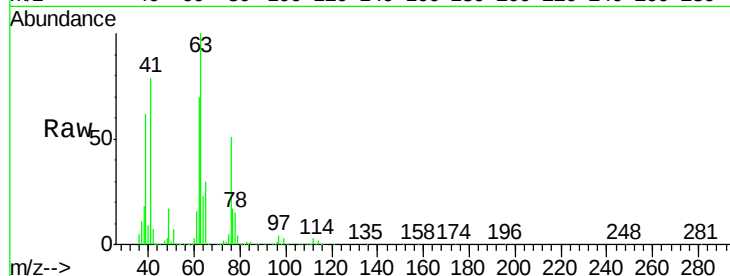
ClientSampleId :

VSTDIC015

Tot Ion:	63	Resp:	1098812
Ion	Ratio	Lower	Upper
63	100		
41	78.7	60.3	90.5
62	70.4	54.5	81.7

Manual Integrations
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#40

1,4-Dioxane

Concen: 14.247 ppbv

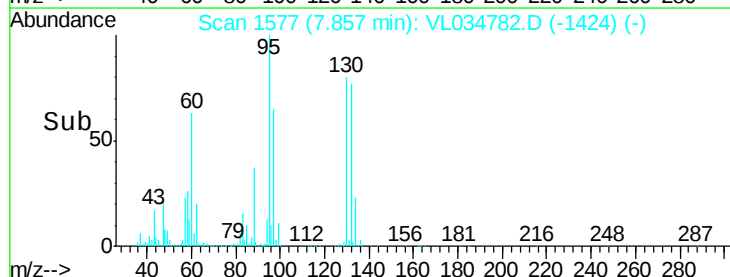
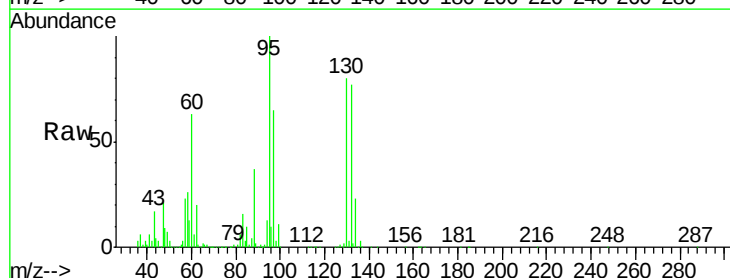
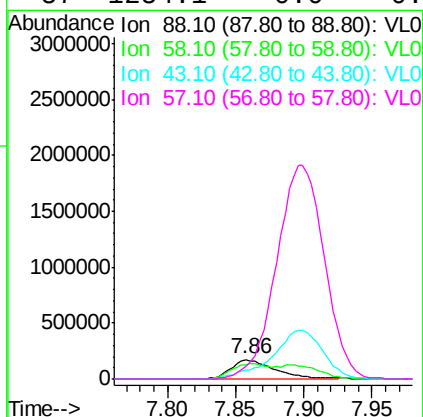
RT: 7.86 min Scan# 1577

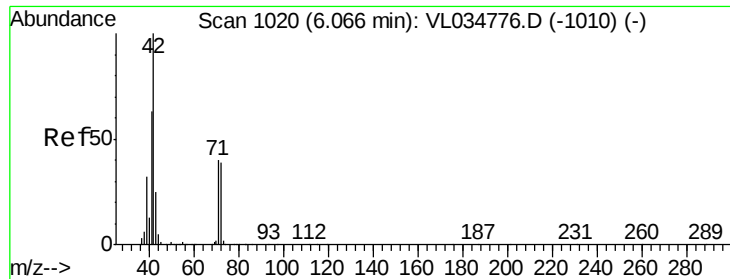
Delta R.T. -0.01 min

Lab File: VL034782.D

Acq: 4 Mar 2020 5:15

Tgt Ion:	88	Resp:	372290
Ion	Ratio	Lower	Upper
88	100		
58	141.9	110.6	166.0
43	300.6	0.0	0.0#
57	1254.1	0.0	0.0#





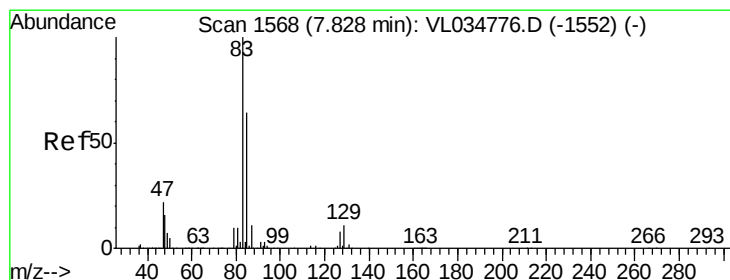
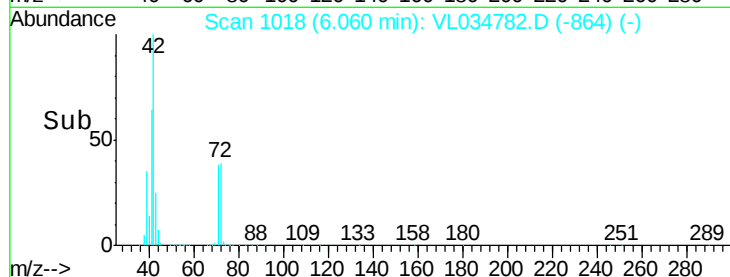
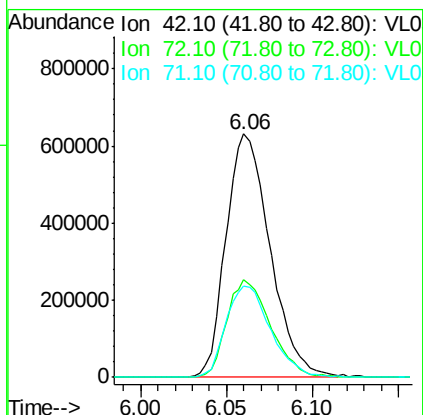
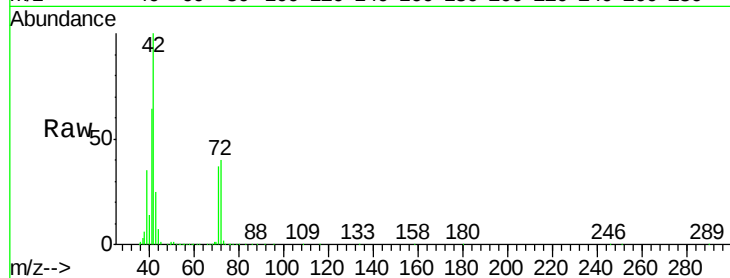
#41
Tetrahydrofuran
Concen: 15.077 ppbv
RT: 6.06 min Scan# 1018
Delta R.T. -0.01 min
Lab File: VL034782.D
Acq: 4 Mar 2020 5:15

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.3	32.0	48.0
71	38.6	31.3	46.9

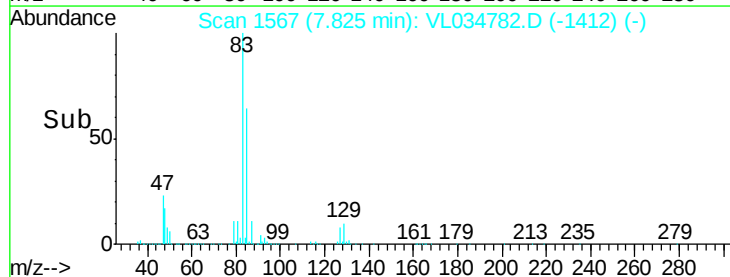
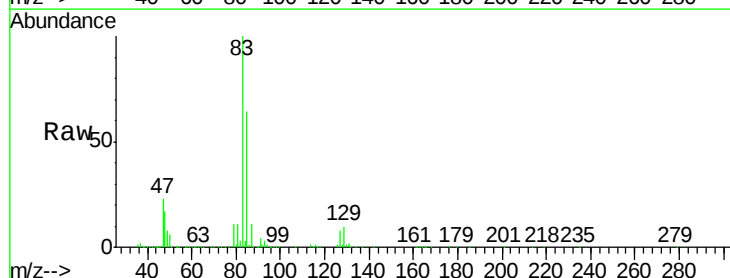
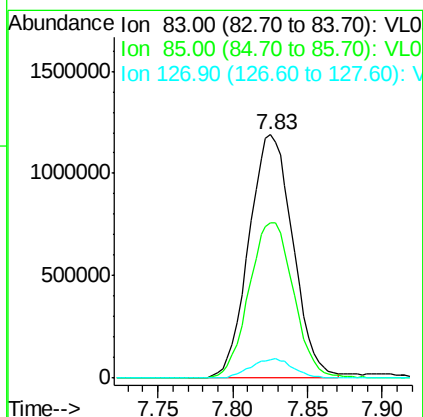
Manual Integrations
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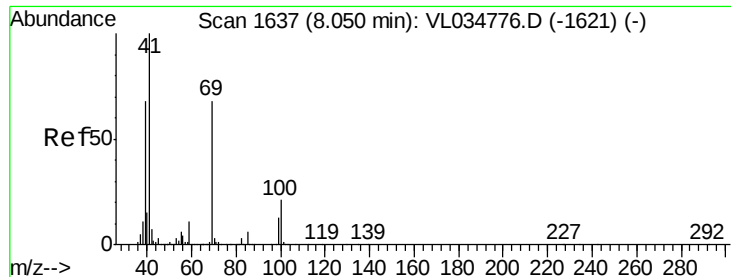
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#42
Bromodichloromethane
Concen: 15.092 ppbv
RT: 7.83 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VL034782.D
Acq: 4 Mar 2020 5:15

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.9	50.8	76.2
127	7.8	6.5	9.7





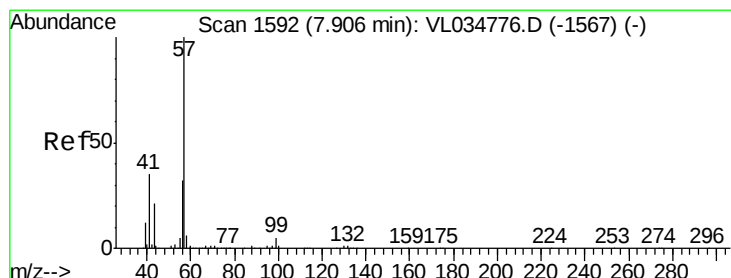
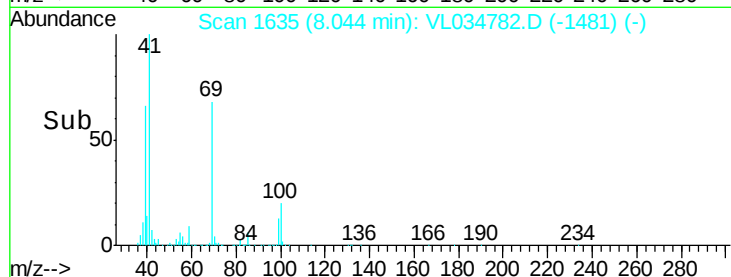
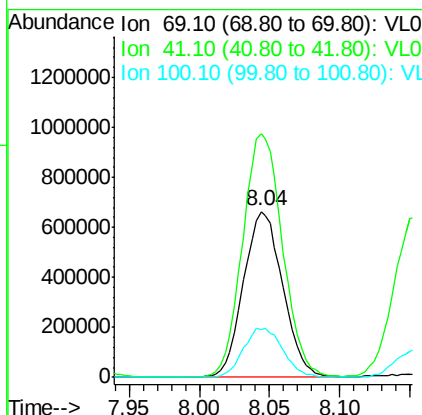
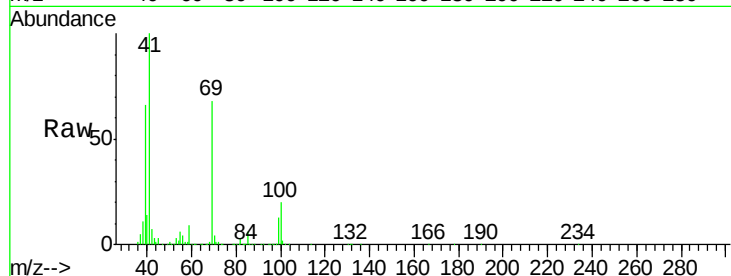
#43
Methvl Methacrvlate
Concen: 15.932 ppbv
RT: 8.04 min Scan# 1635
Delta R.T. -0.01 min
Lab File: VL034782.D
Acq: 4 Mar 2020 5:15

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 69 Resp: 1296697
Ion Ratio Lower Upper
69 100
41 149.1 121.6 182.4
100 29.9 23.8 35.8

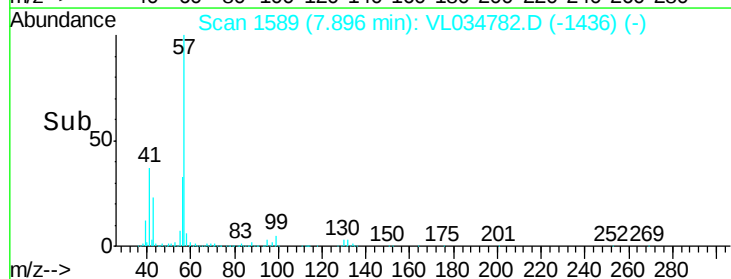
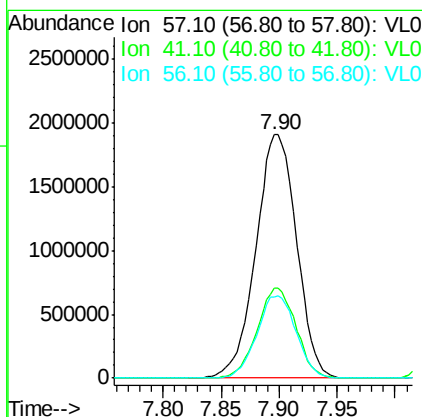
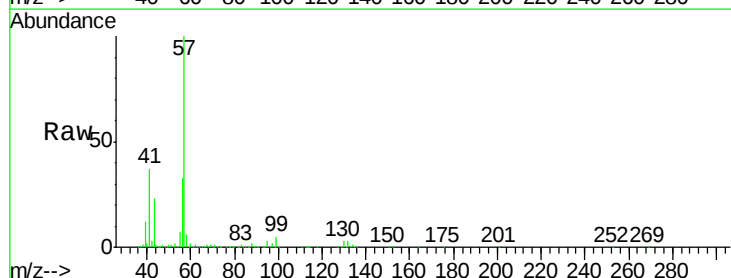
Manual Integrations
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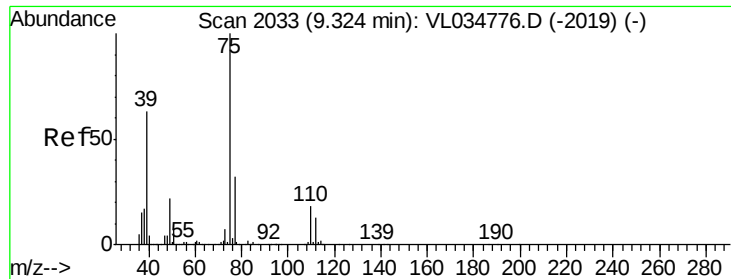
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#44
2,2,4-Trimethylpentane
Concen: 13.763 ppbv
RT: 7.90 min Scan# 1589
Delta R.T. -0.01 min
Lab File: VL034782.D
Acq: 4 Mar 2020 5:15

Tgt Ion: 57 Resp: 4658446
Ion Ratio Lower Upper
57 100
41 35.2 27.4 41.0
56 32.6 25.0 37.6





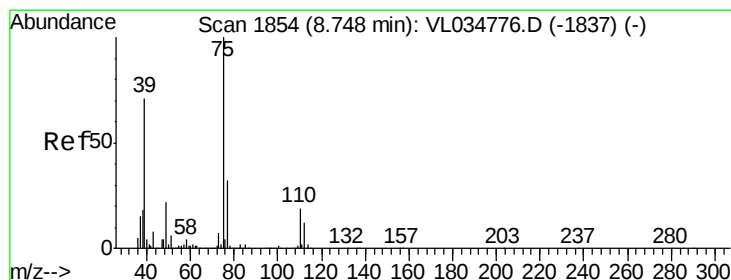
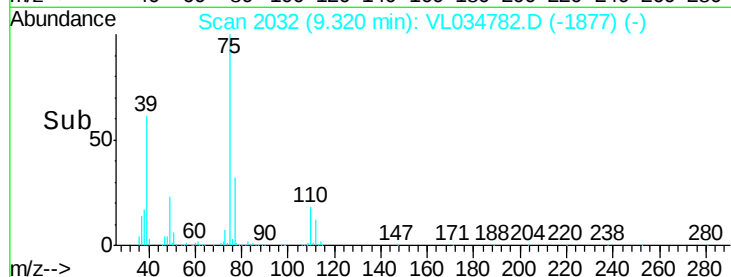
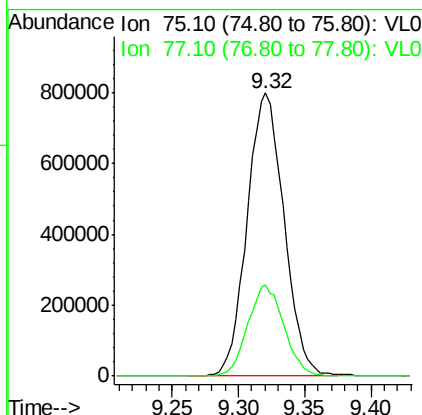
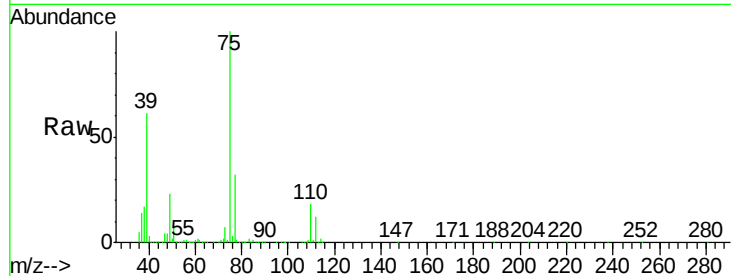
#45
t-1,3-Dichloropropene
Concen: 17.526 ppbv
RT: 9.32 min Scan# 2032
Delta R.T. -0.00 min
Lab File: VL034782.D
Acq: 4 Mar 2020 5:15

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 75 Resp: 1548255
Ion Ratio Lower Upper
75 100
77 32.1 25.6 38.4

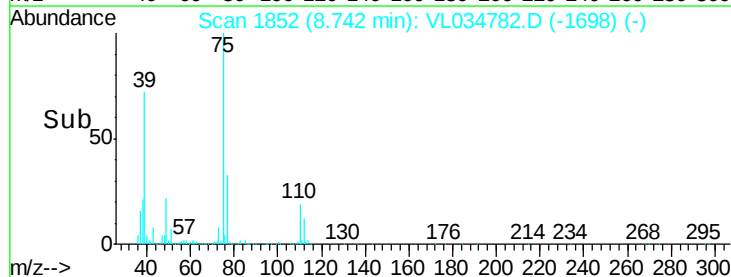
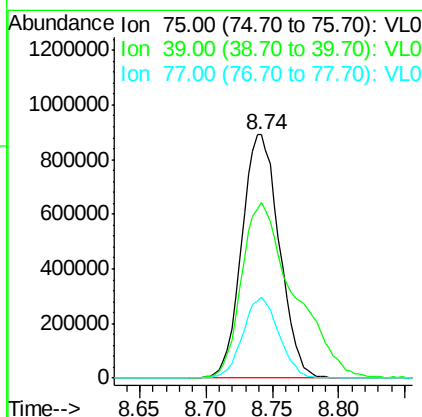
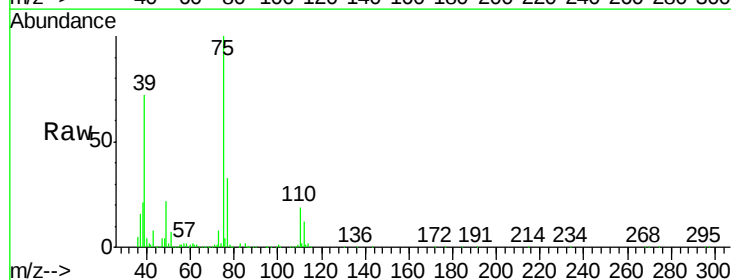
Manual Integrations
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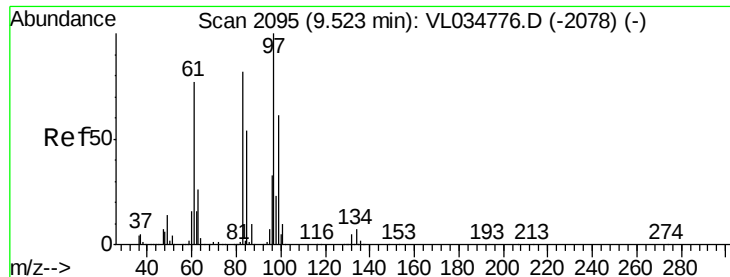
apatel
3/4/2020 4:45:34 PM



#46
cis-1,3-Dichloropropene
Concen: 16.482 ppbv
RT: 8.74 min Scan# 1852
Delta R.T. -0.01 min
Lab File: VL034782.D
Acq: 4 Mar 2020 5:15

Tgt Ion: 75 Resp: 1750276
Ion Ratio Lower Upper
75 100
39 72.2 56.9 85.3
77 33.3 25.7 38.5





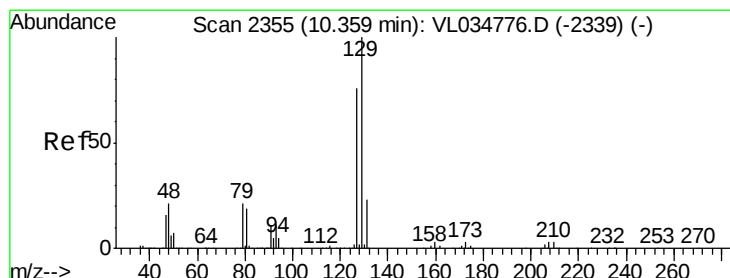
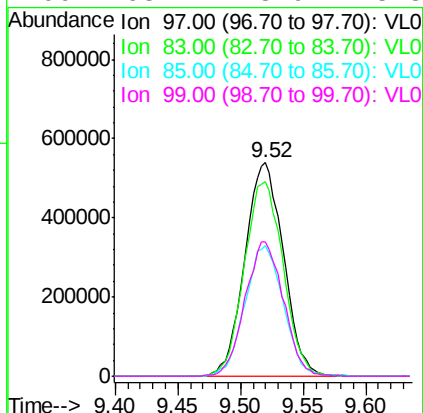
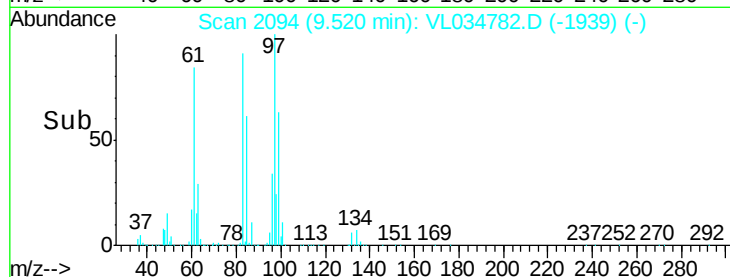
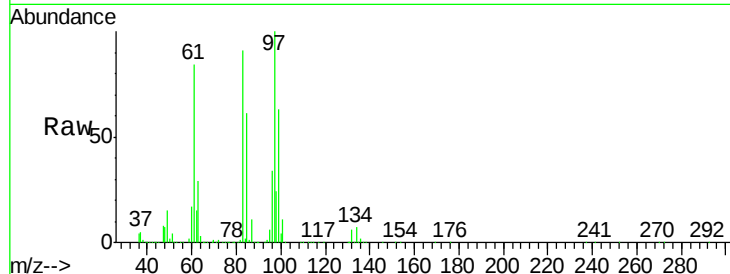
#47
 1,1,2-Trichloroethane
 Concen: 14.572 ppbv
 RT: 9.52 min Scan# 2094
 Delta R.T. -0.00 min
 Lab File: VL034782.D
 Acq: 4 Mar 2020 5:15

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	90.9	65.2	97.8	
85	61.1	43.6	65.4	
99	63.2	48.9	73.3	

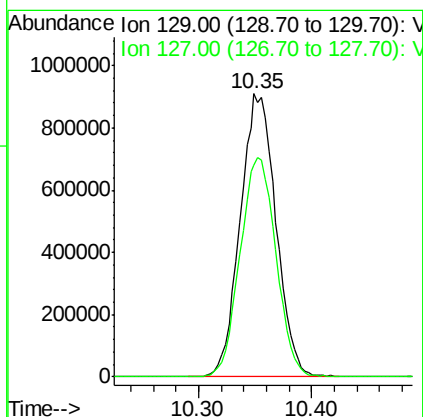
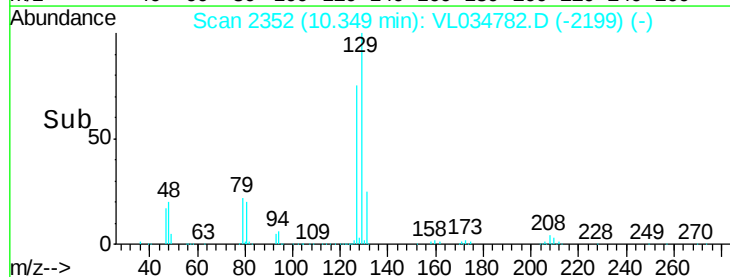
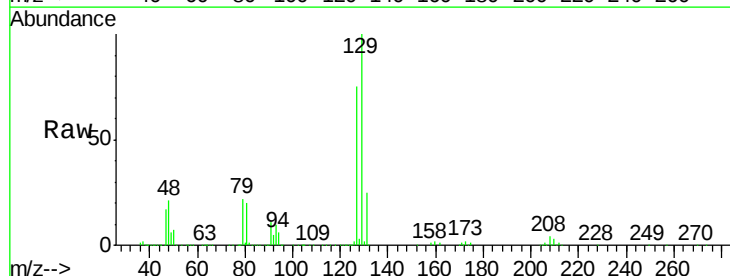
Manual Integrations
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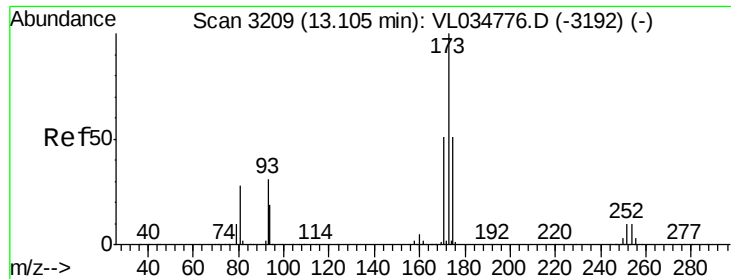
apatel
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#48
 Dibromochloromethane
 Concen: 16.126 ppbv
 RT: 10.35 min Scan# 2352
 Delta R.T. -0.01 min
 Lab File: VL034782.D
 Acq: 4 Mar 2020 5:15

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.3	39.0	117.0	





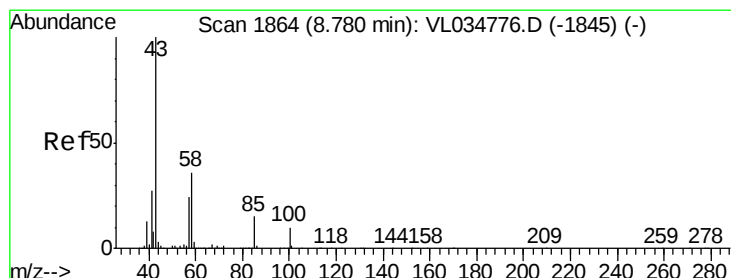
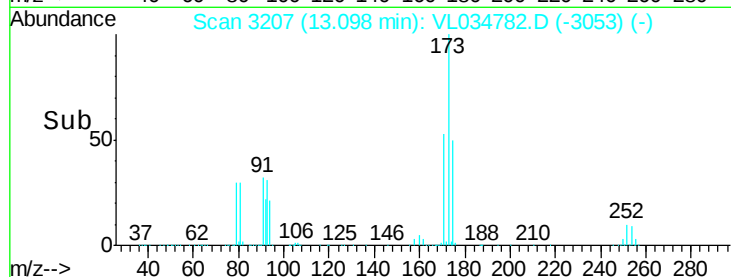
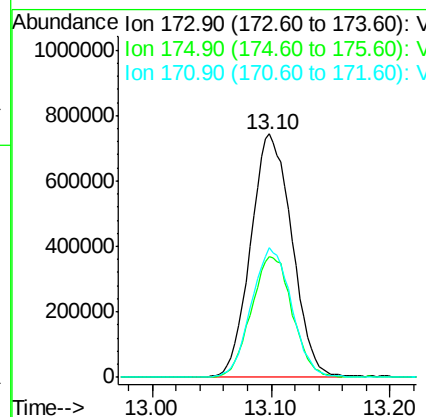
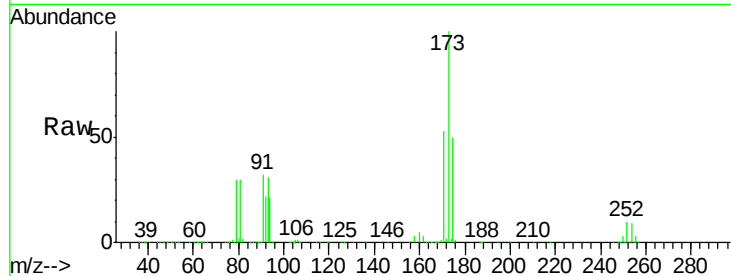
#49
Bromoform
Concen: 16.535 ppbv
RT: 13.10 min Scan# 3207
Delta R.T. -0.01 min
Lab File: VL034782.D
Acq: 4 Mar 2020 5:15

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.5	39.8	59.6
171	52.2	41.0	61.4

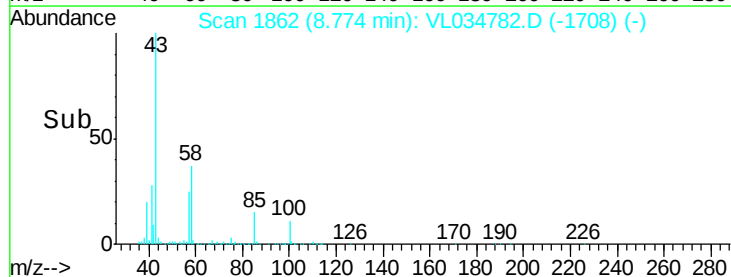
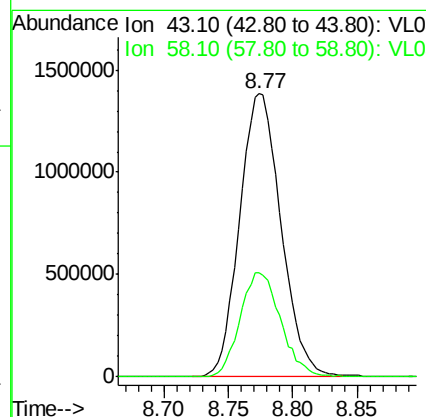
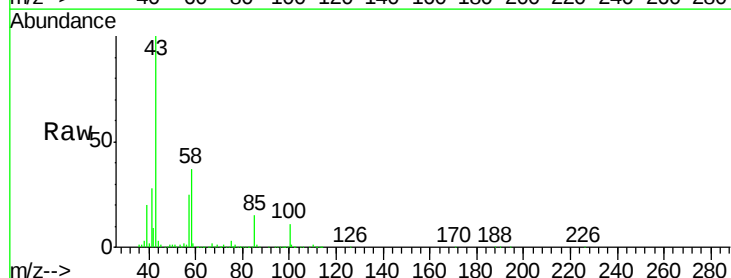
Manual Integrations
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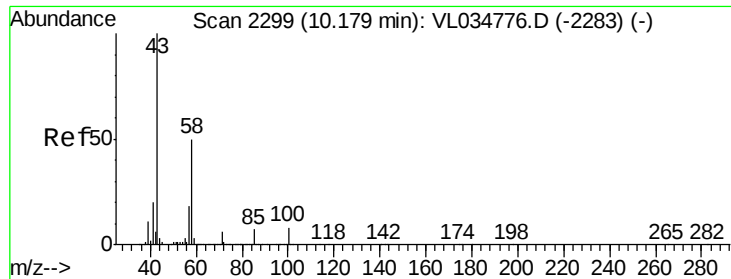
apatel
3/4/2020 4:45:34 PM



#50
4-Methyl-2-Pentanone
Concen: 15.338 ppbv
RT: 8.77 min Scan# 1862
Delta R.T. -0.01 min
Lab File: VL034782.D
Acq: 4 Mar 2020 5:15

Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.4	28.7	43.1





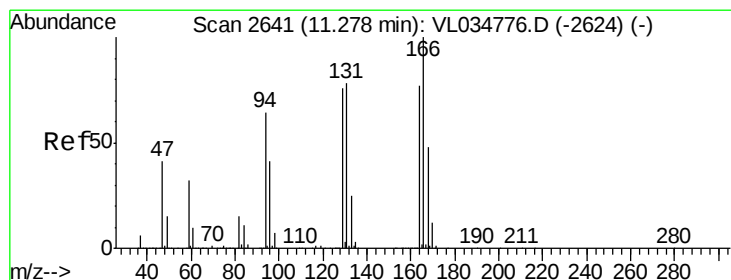
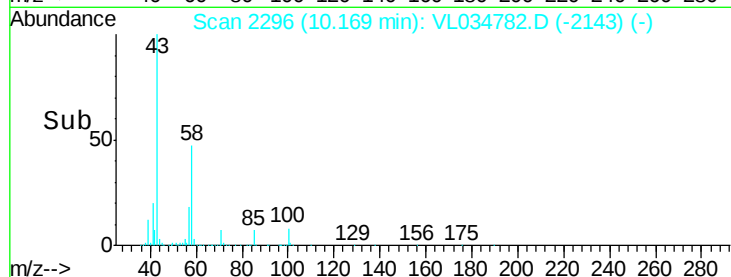
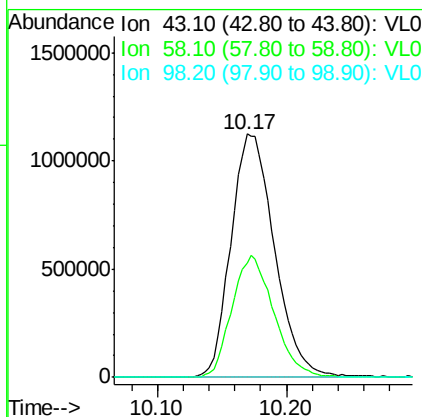
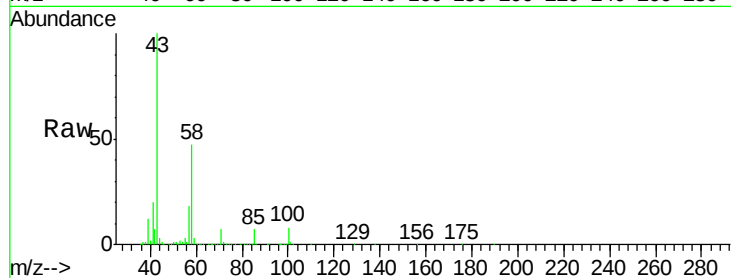
#51
2-Hexanone
Concen: 16.583 ppbv
RT: 10.17 min Scan# 2296
Delta R.T. -0.01 min
Lab File: VL034782.D
Acq: 4 Mar 2020 5:15

Instrument :
MSVOA_L
ClientSampled :
VSTDIC015

Tot Ion: 43 Resp: 2629186
Ion Ratio Lower Upper
43 100
58 48.4 38.6 58.0
98 0.3 0.2 0.4

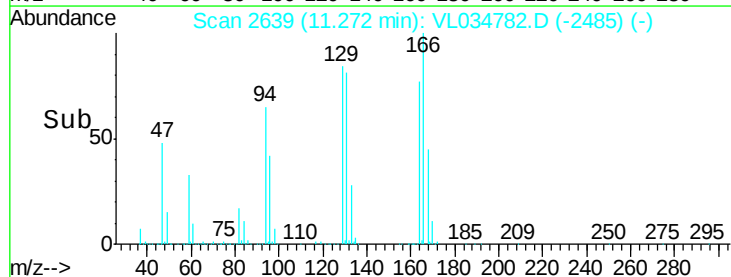
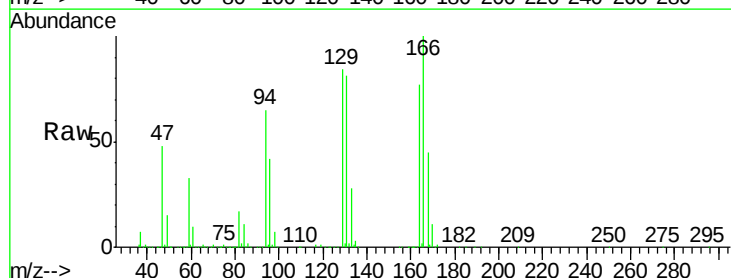
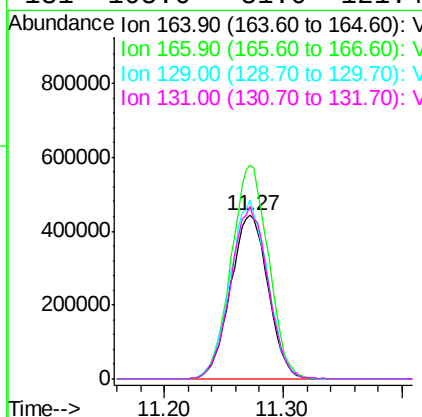
Manual Integrations
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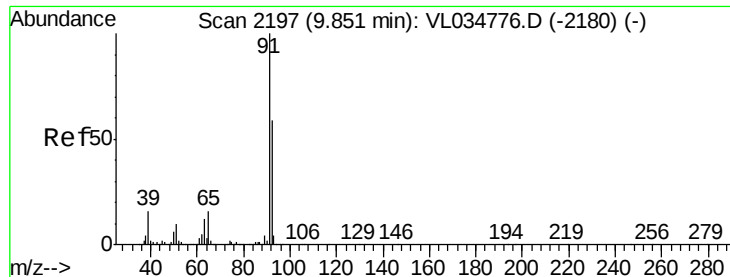
apatel
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#52
Tetrachloroethene
Concen: 13.601 ppbv
RT: 11.27 min Scan# 2639
Delta R.T. -0.01 min
Lab File: VL034782.D
Acq: 4 Mar 2020 5:15

Tgt Ion:164 Resp: 970002
Ion Ratio Lower Upper
164 100
166 130.2 103.3 154.9
129 109.0 79.0 118.4
131 105.6 81.0 121.4





#53

Toluene

Concen: 15.293 ppbv

RT: 9.85 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VL034782.D

Acq: 4 Mar 2020 5:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 3152705

Ion Ratio Lower Upper

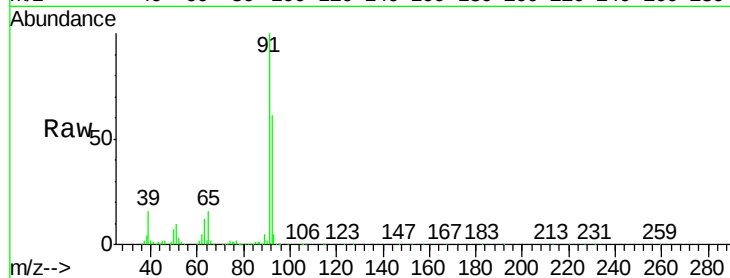
91 100

92 61.1 48.2 72.2

Manual Integrations
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apatel

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.85

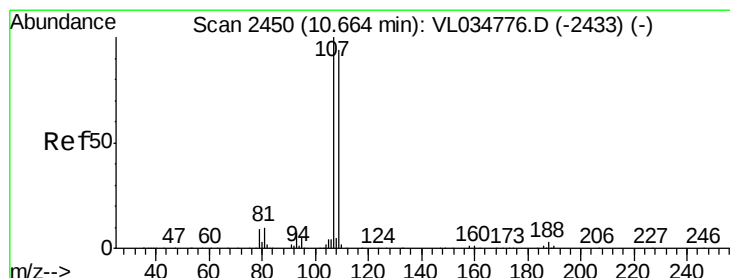
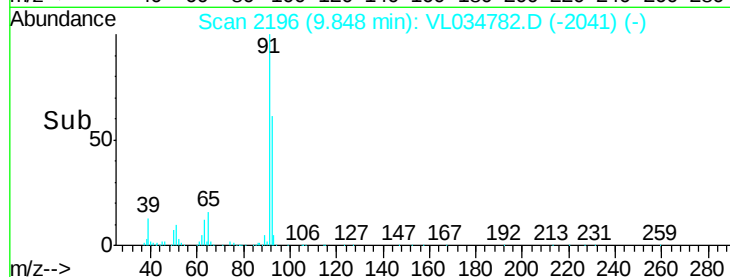
1500000

1000000

500000

0

Time-->



#54

1,2-Dibromoethane

Concen: 14.967 ppbv

RT: 10.66 min Scan# 2448

Delta R.T. -0.01 min

Lab File: VL034782.D

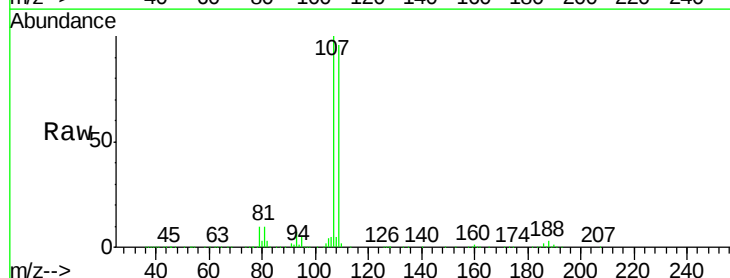
Acq: 4 Mar 2020 5:15

Tgt Ion:107 Resp: 1771845

Ion Ratio Lower Upper

107 100

109 96.2 75.0 112.6



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

10.66

800000

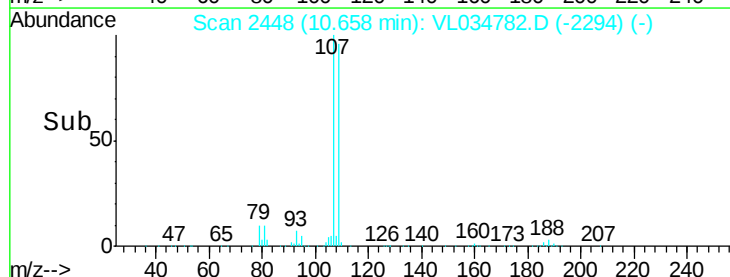
600000

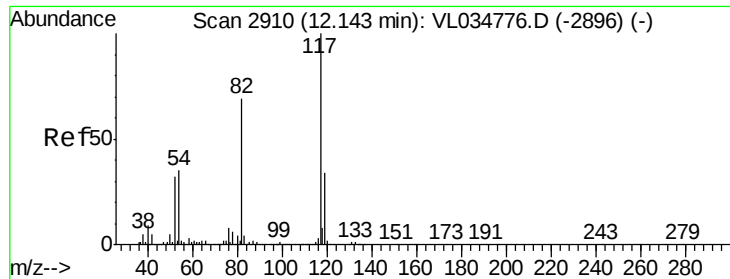
400000

200000

0

Time-->





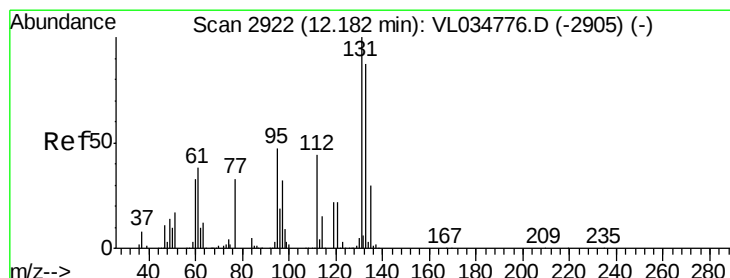
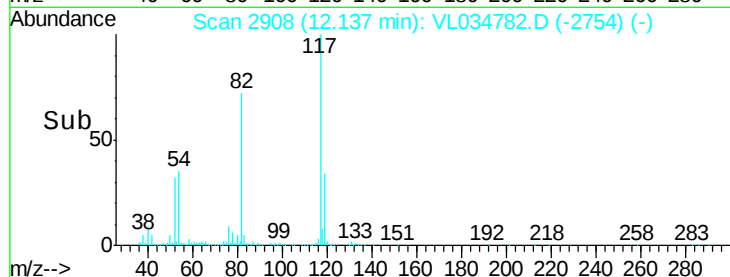
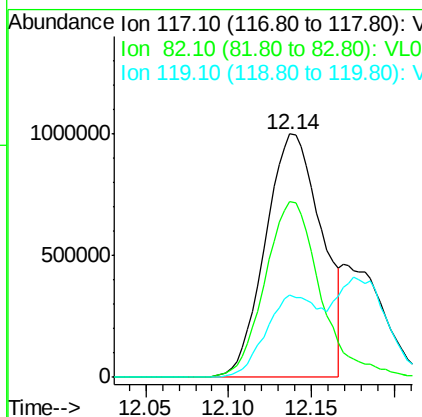
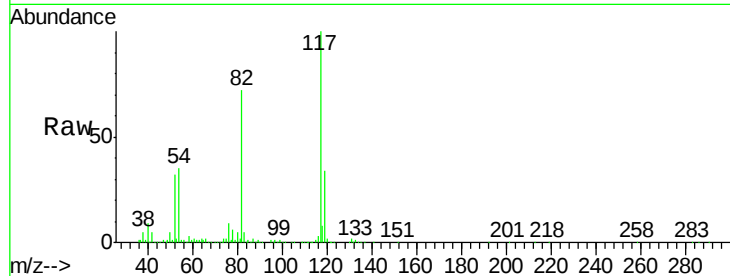
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.14 min Scan# 2908
Delta R.T. -0.01 min
Lab File: VL034782.D
Acq: 4 Mar 2020 5:15

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:117 Resp: 2356945
Ion Ratio Lower Upper
117 100
82 71.9 53.9 80.9
119 33.2 25.0 37.4

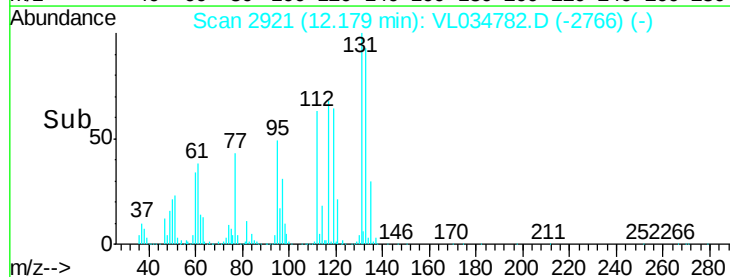
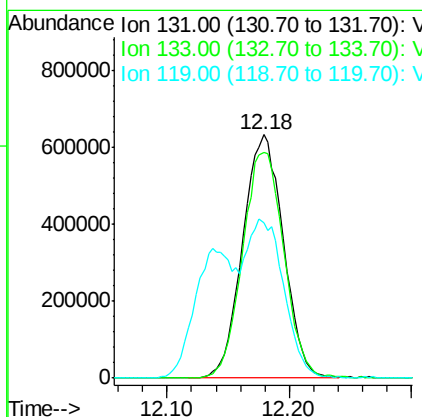
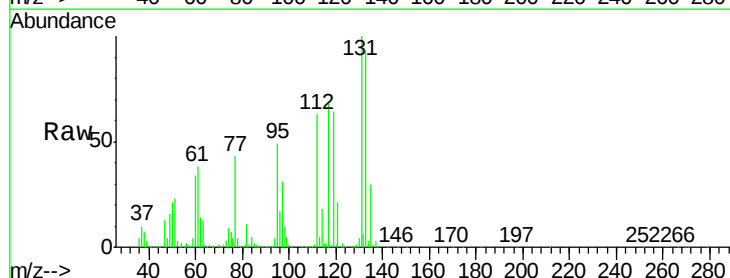
Manual Integrations
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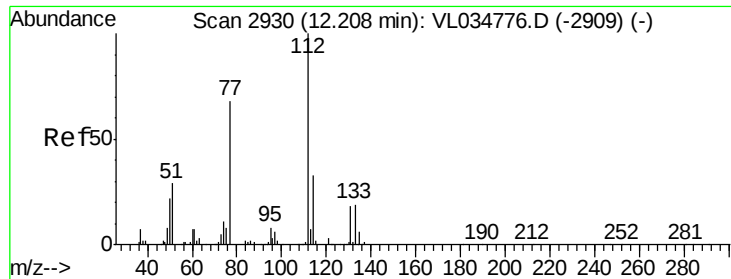
apatel
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#56
1,1,1,2-Tetrachloroethane
Concen: 14.366 ppbv
RT: 12.18 min Scan# 2921
Delta R.T. -0.00 min
Lab File: VL034782.D
Acq: 4 Mar 2020 5:15

Tgt Ion:131 Resp: 1456181
Ion Ratio Lower Upper
131 100
133 94.6 75.4 113.0
119 60.7 110.5 165.7#





#57

Chlorobenzene

Concen: 13.625 ppbv

RT: 12.20 min Scan# 2928

Delta R.T. -0.01 min

Lab File: VL034782.D

Acq: 4 Mar 2020 5:15

Instrument :

MSVOA_L

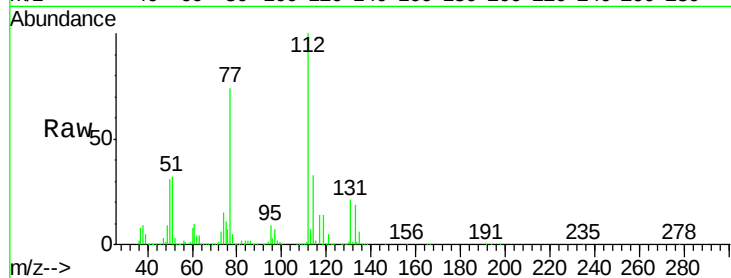
ClientSampleId :

VSTDIC015

Tot Ion	Ratio	Lower	Upper
112	100		
77	73.5	55.6	83.4
114	33.4	29.4	36.0

Manual Integrations
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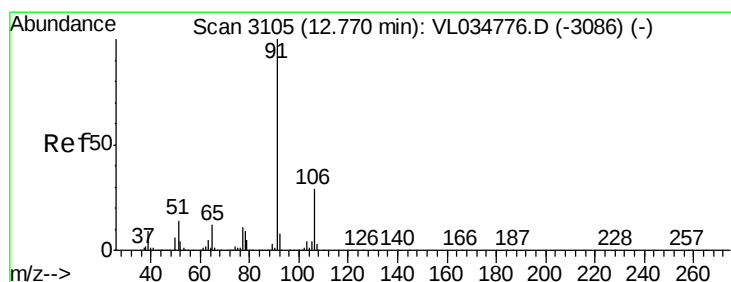
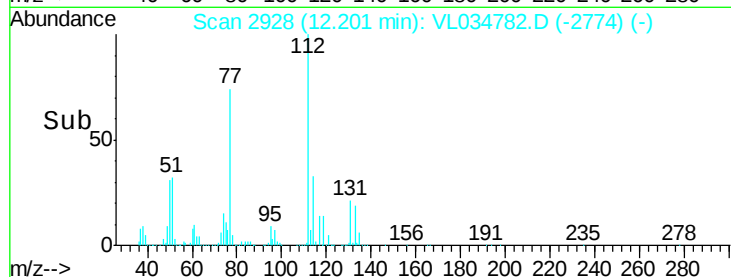
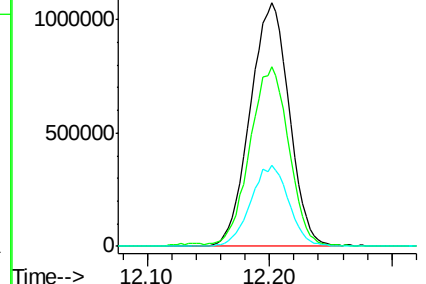
apatel
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 14.918 ppbv

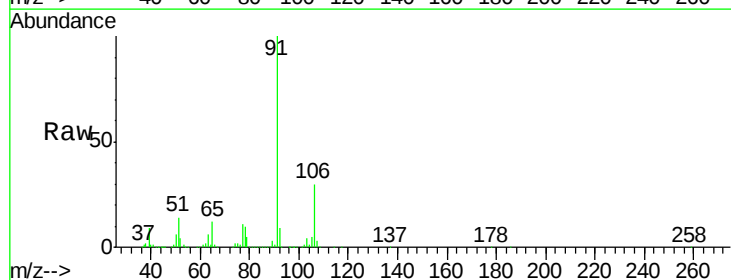
RT: 12.76 min Scan# 3102

Delta R.T. -0.01 min

Lab File: VL034782.D

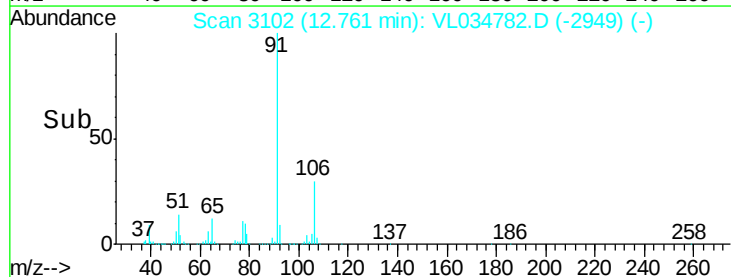
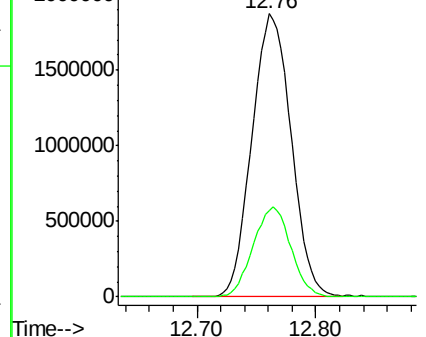
Acq: 4 Mar 2020 5:15

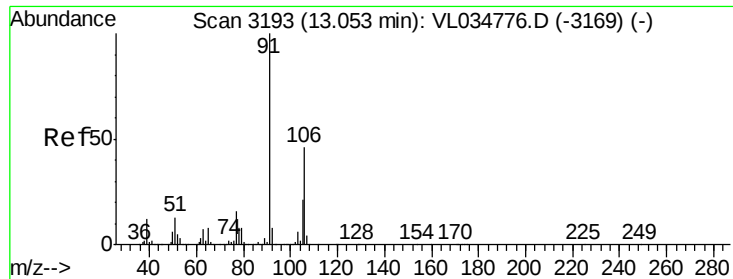
Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.3	22.8	34.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 28.158 ppbv m

RT: 13.05 min Scan# 3192

Delta R.T. -0.00 min

Lab File: VL034782.D

Acq: 4 Mar 2020 5:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 7003474

Ion Ratio Lower Upper

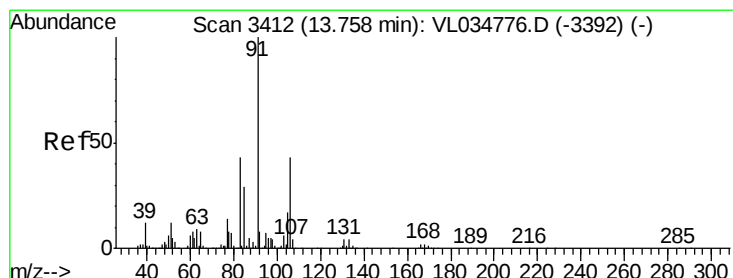
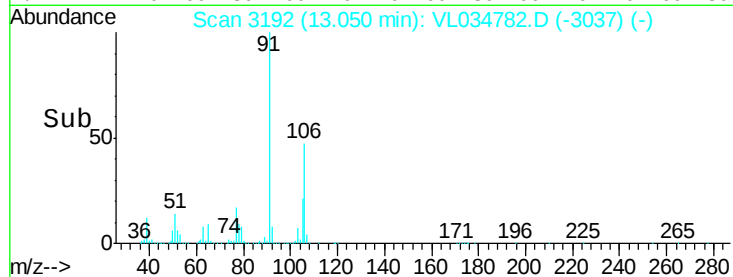
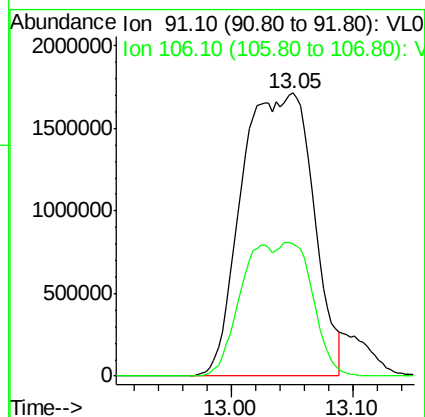
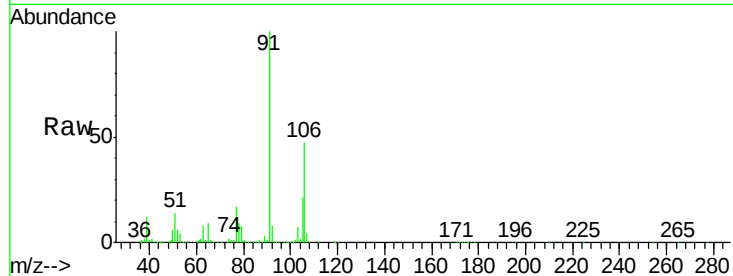
91 100

106 46.0 35.8 53.8

Manual Integrations
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#60

o-Xylene

Concen: 14.284 ppbv

RT: 13.75 min Scan# 3410

Delta R.T. -0.01 min

Lab File: VL034782.D

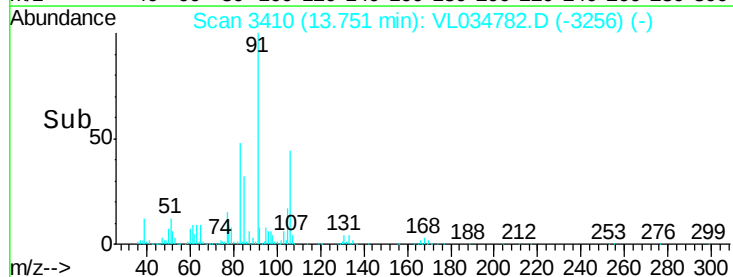
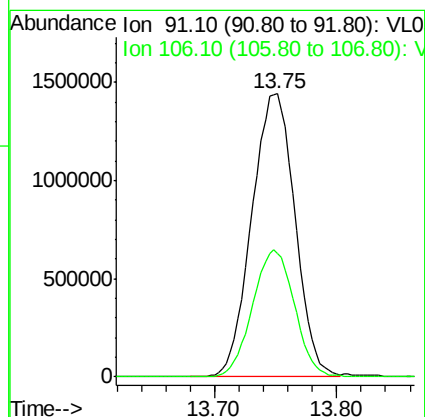
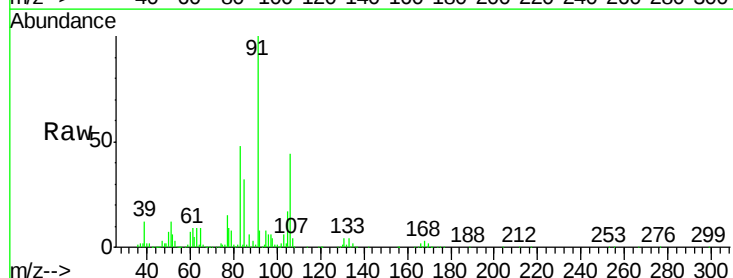
Acq: 4 Mar 2020 5:15

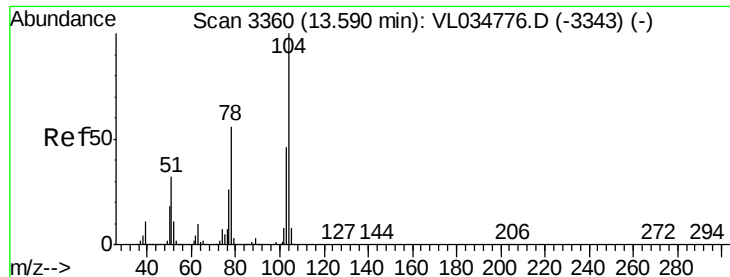
Tgt Ion: 91 Resp: 3540636

Ion Ratio Lower Upper

91 100

106 43.8 21.7 65.1





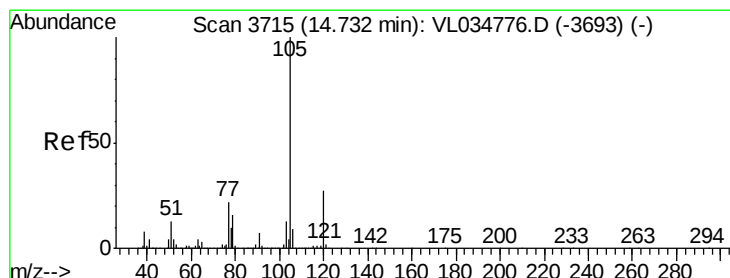
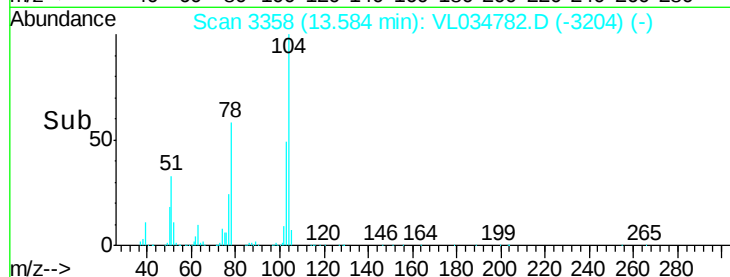
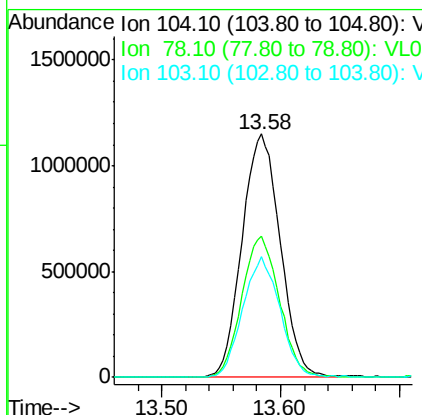
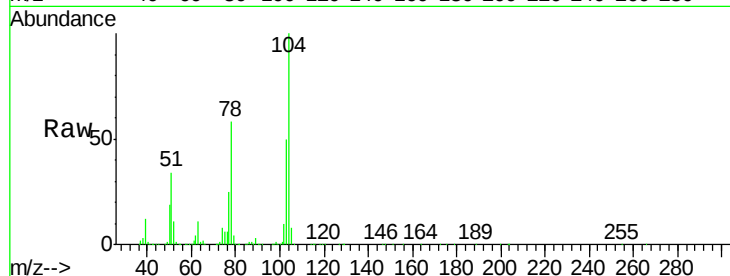
#61
Stvrene
Concen: 16.119 ppbv
RT: 13.58 min Scan# 3358
Delta R.T. -0.01 min
Lab File: VL034782.D
Acq: 4 Mar 2020 5:15

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
104	100		
78	57.3	44.7	67.1
103	48.5	38.2	57.2

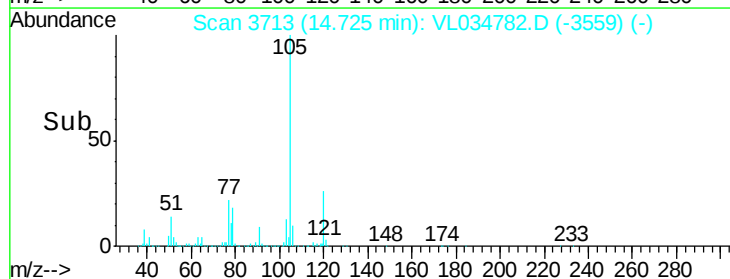
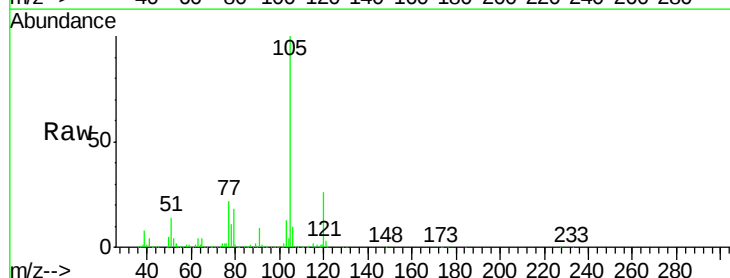
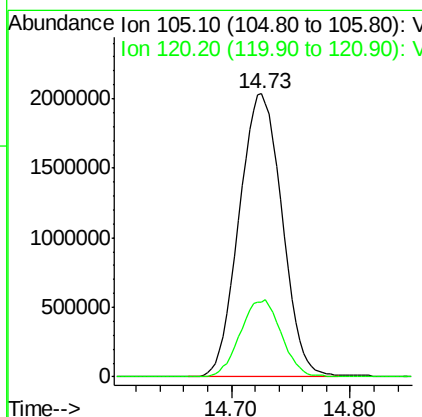
Manual Integrations
APPROVED

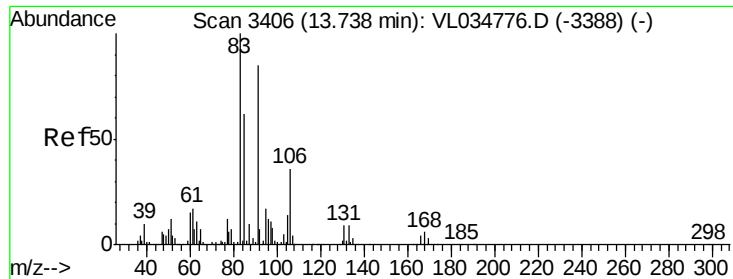
apatel
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#62
Isopropylbenzene
Concen: 14.062 ppbv
RT: 14.73 min Scan# 3713
Delta R.T. -0.01 min
Lab File: VL034782.D
Acq: 4 Mar 2020 5:15

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.3	20.5	30.7





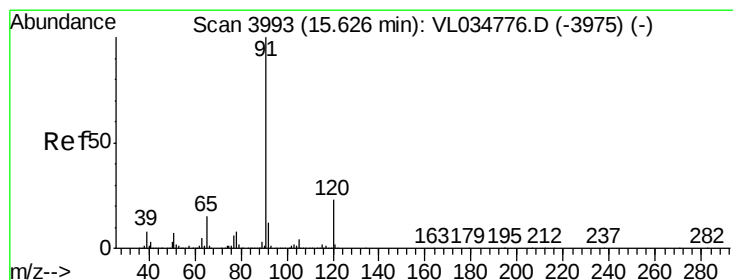
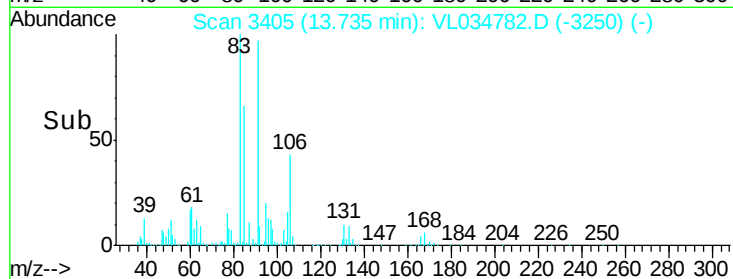
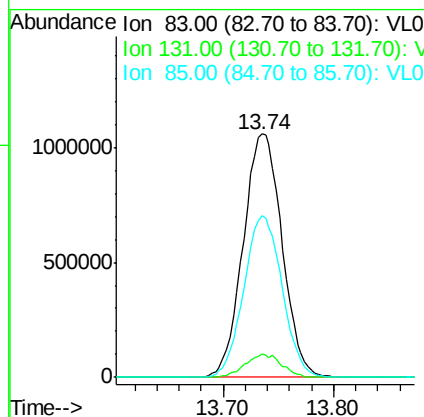
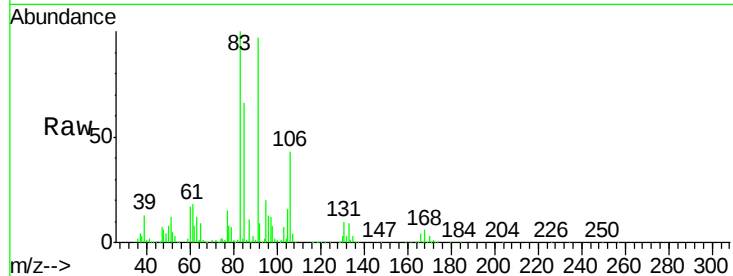
#63
1,1,2,2-Tetrachloroethane
Concen: 13.394 ppbv
RT: 13.74 min Scan# 3405
Delta R.T. -0.00 min
Lab File: VL034782.D
Acq: 4 Mar 2020 5:15

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 2587060
Ion Ratio Lower Upper
83 100
131 9.1 4.7 14.0
85 65.7 32.9 98.7

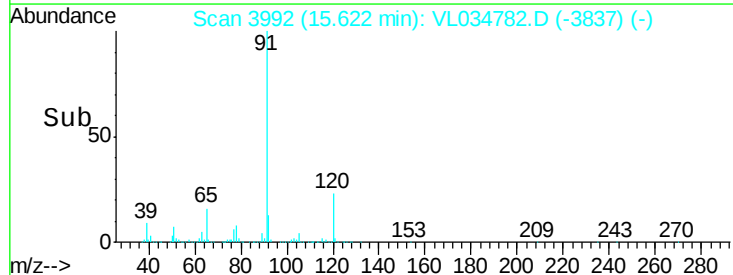
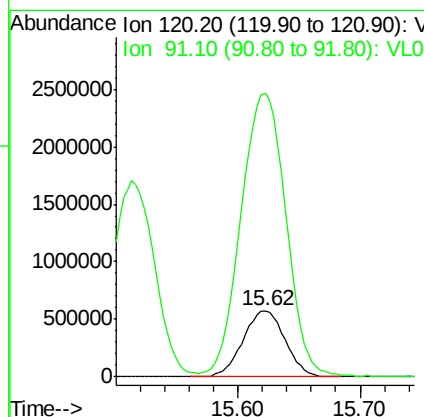
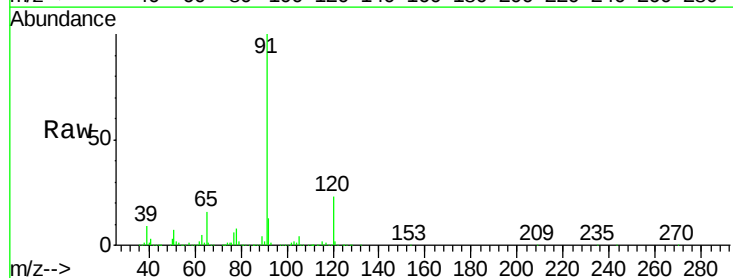
Manual Integrations
APPROVED

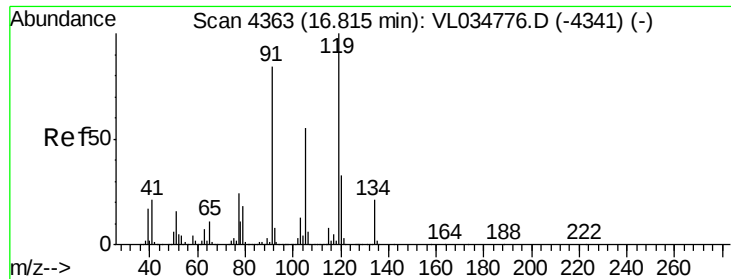
apatel
3/4/2020 4:45:34 PM



#64
n-propylbenzene
Concen: 14.719 ppbv
RT: 15.62 min Scan# 3992
Delta R.T. -0.00 min
Lab File: VL034782.D
Acq: 4 Mar 2020 5:15

Tgt Ion: 120 Resp: 1371149
Ion Ratio Lower Upper
120 100
91 459.7 379.4 569.2





#65

tert-Butylbenzene

Concen: 14.262 ppbv

RT: 16.81 min Scan# 4361

Delta R.T. -0.01 min

Lab File: VL034782.D

Acq: 4 Mar 2020 5:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:119 Resp: 4463496

Ion Ratio Lower Upper

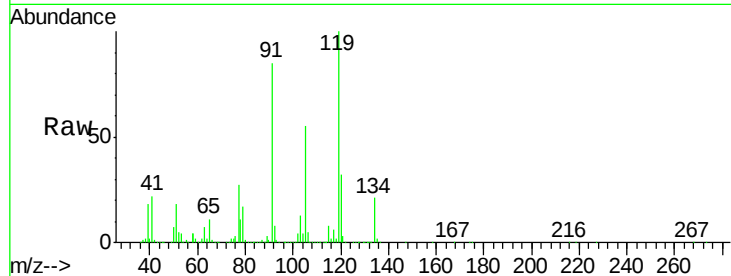
119 100

91 87.8 69.8 104.6

134 20.3 15.9 23.9

Manual Integrations
APPROVED

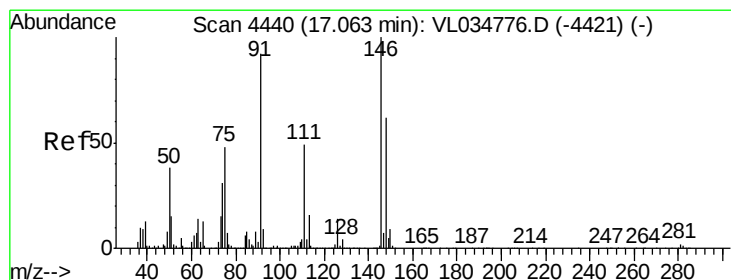
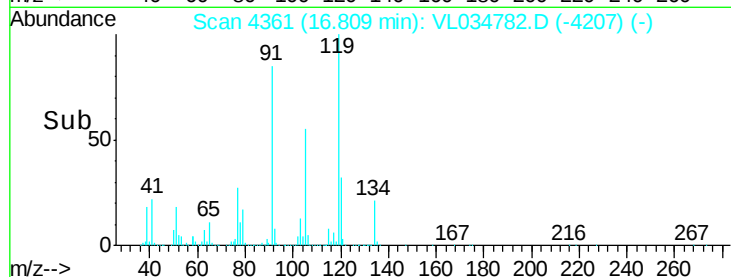
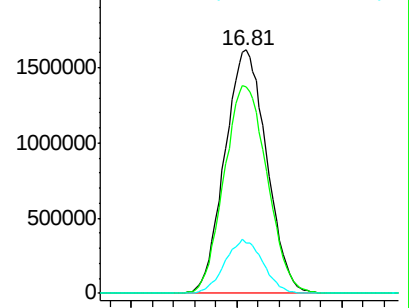
apatel
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 16.946 ppbv

RT: 17.06 min Scan# 4438

Delta R.T. -0.01 min

Lab File: VL034782.D

Acq: 4 Mar 2020 5:15

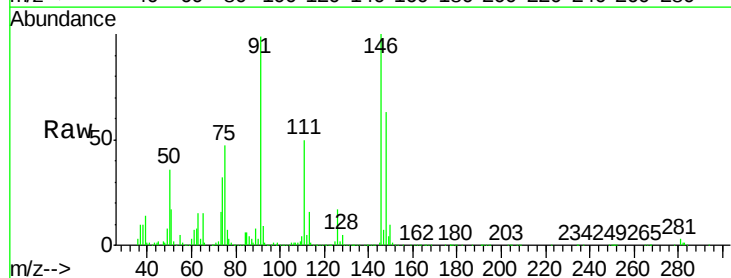
Tgt Ion: 91 Resp: 1923175

Ion Ratio Lower Upper

91 100

126 16.4 12.6 18.8

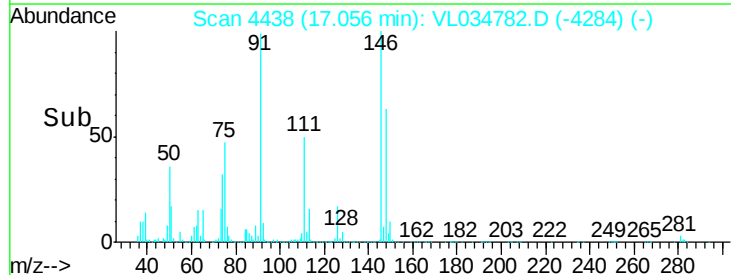
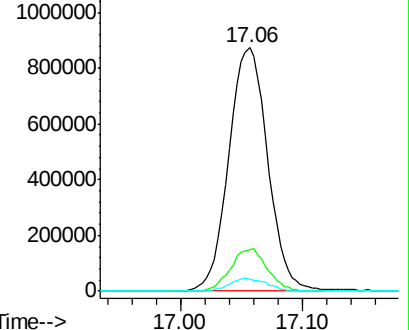
128 5.2 4.3 6.5

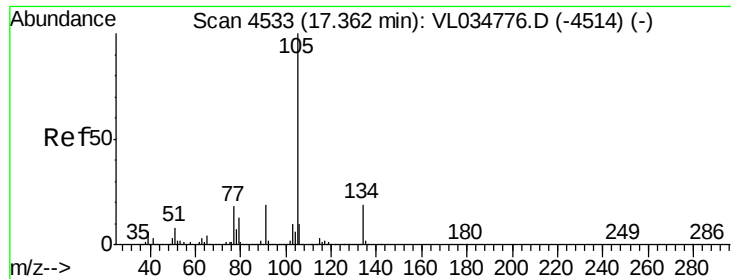


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 13.975 ppbv

RT: 17.36 min Scan# 4532

Delta R.T. -0.00 min

Lab File: VL034782.D

Acq: 4 Mar 2020 5:15

Instrument :

MSVOA_L

ClientSampleID :

VSTDIC015

Tot Ion:105 Resp: 6305262

Ion Ratio Lower Upper

105 100

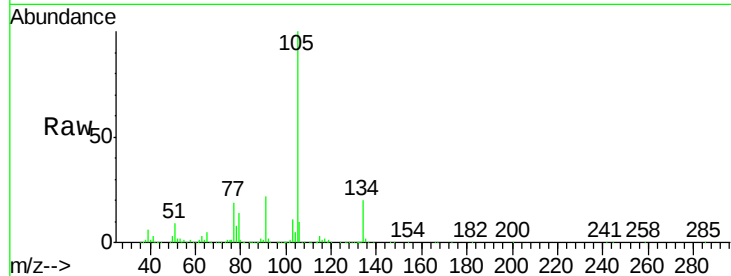
134 19.0 14.7 22.1

Manual Integrations

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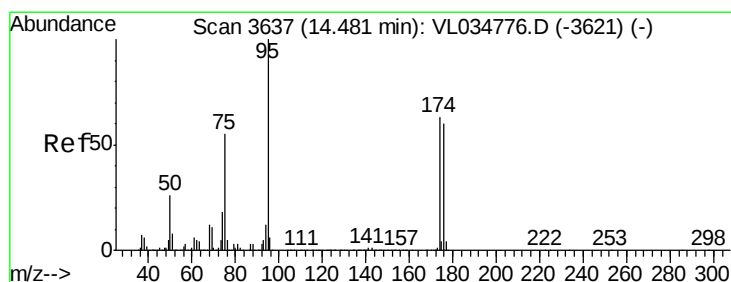
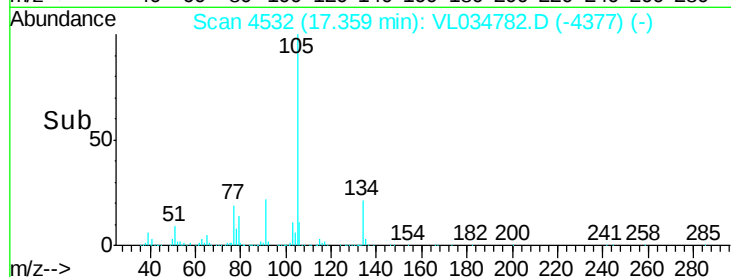
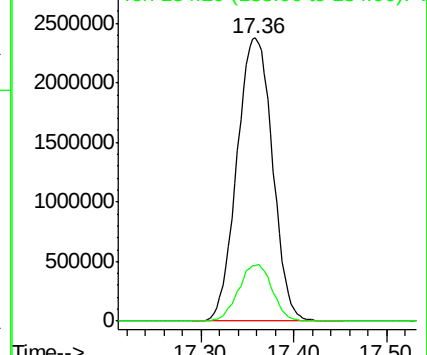
apatel

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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: 10.140 ppbv

RT: 14.47 min Scan# 3635

Delta R.T. -0.01 min

Lab File: VL034782.D

Acq: 4 Mar 2020 5:15

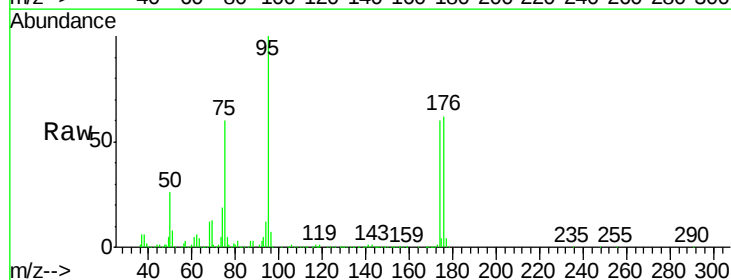
Tgt Ion: 95 Resp: 1959700

Ion Ratio Lower Upper

95 100

174 63.1 50.6 76.0

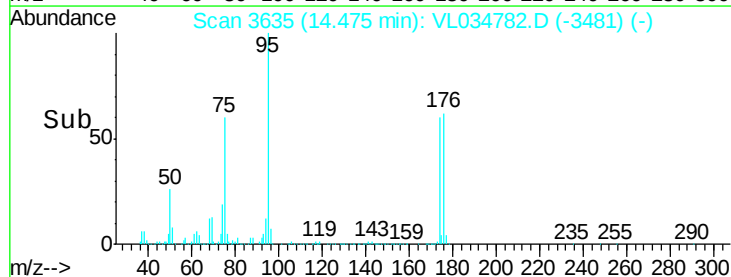
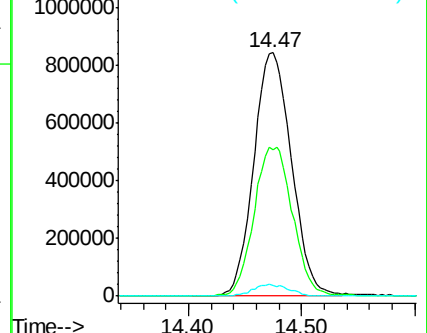
175 4.6 3.8 5.6

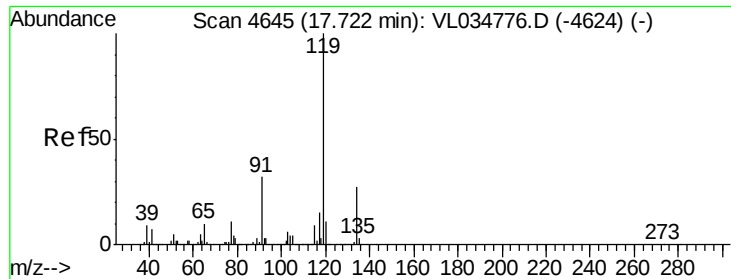


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





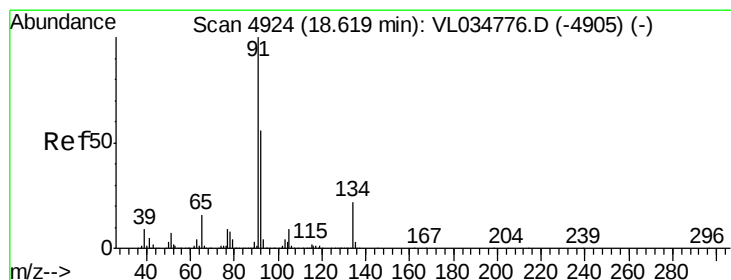
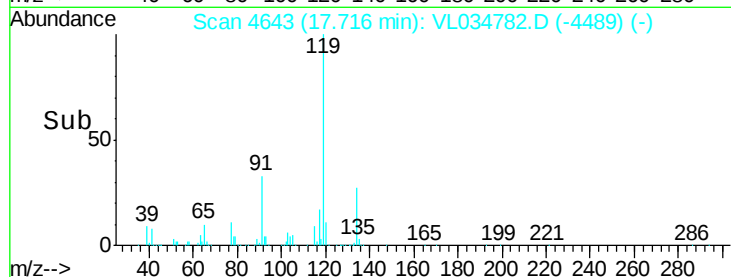
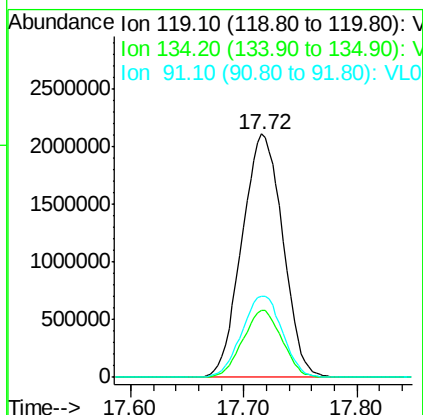
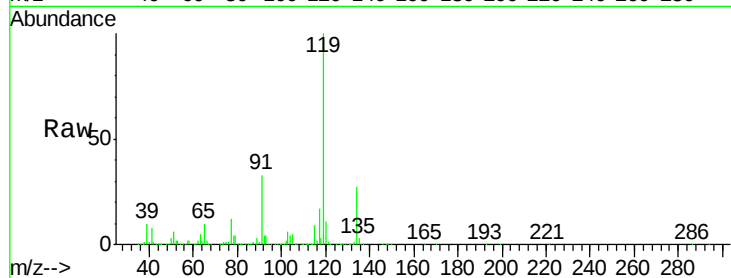
#69
 p-Isopropyltoluene
 Concen: 14.249 ppbv
 RT: 17.72 min Scan# 4643
 Delta R.T. -0.01 min
 Lab File: VL034782.D
 Acq: 4 Mar 2020 5:15

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.3	20.6	30.8
91	33.2	25.3	37.9

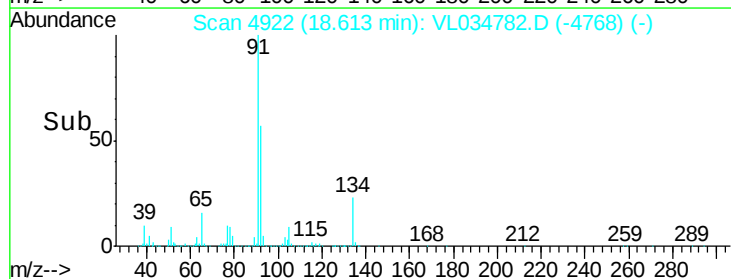
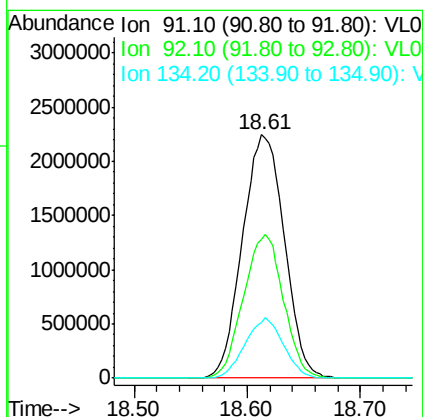
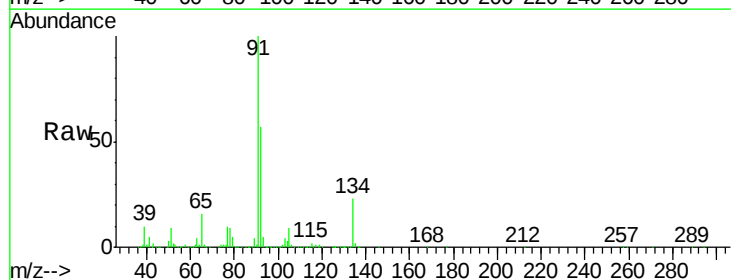
Manual Integrations
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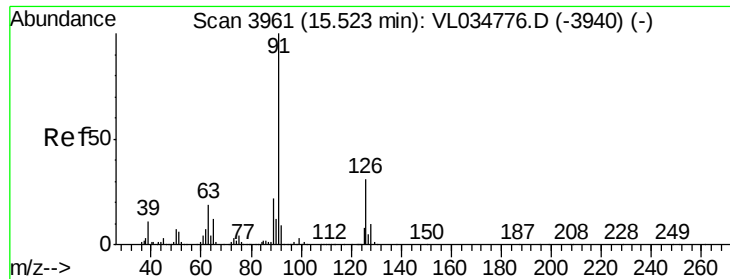
apatel
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#70
 n-Butylbenzene
 Concen: 14.265 ppbv
 RT: 18.61 min Scan# 4922
 Delta R.T. -0.01 min
 Lab File: VL034782.D
 Acq: 4 Mar 2020 5:15

Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.3	44.0	66.0
134	22.7	17.7	26.5





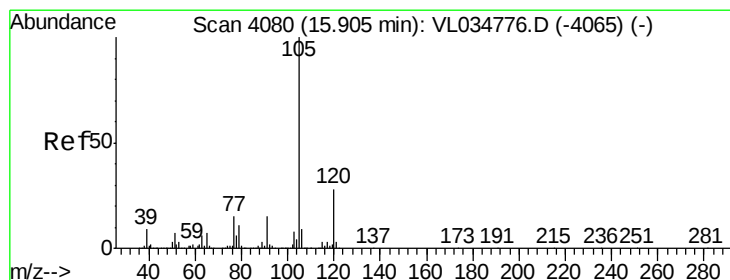
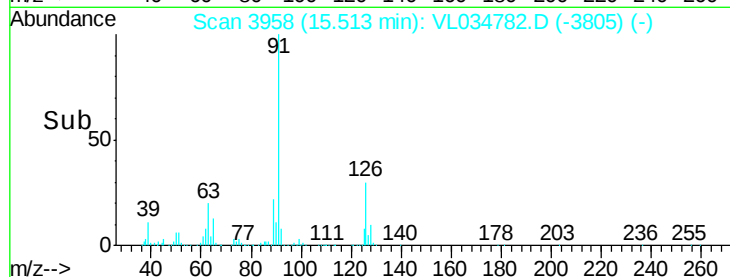
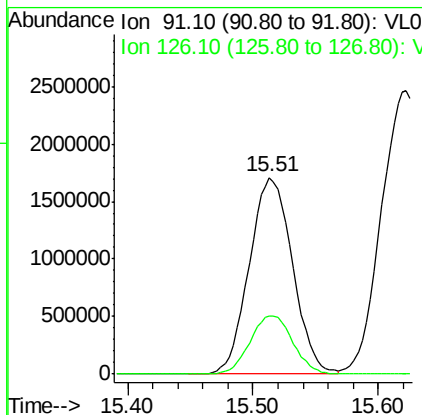
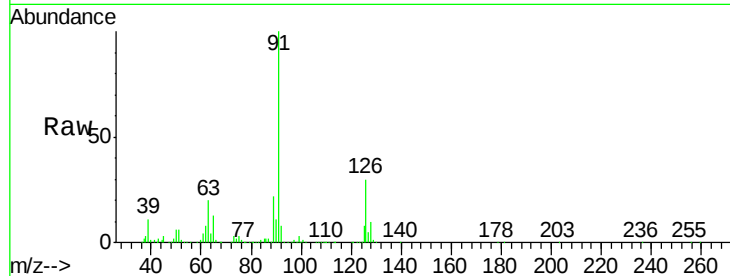
#71
 2-Chlorotoluene
 Concen: 14.575 ppbv
 RT: 15.51 min Scan# 3958
 Delta R.T. -0.01 min
 Lab File: VL034782.D
 Acq: 4 Mar 2020 5:15

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 91 Resp: 4092939
 Ion Ratio Lower Upper
 91 100
 126 29.6 11.7 46.7

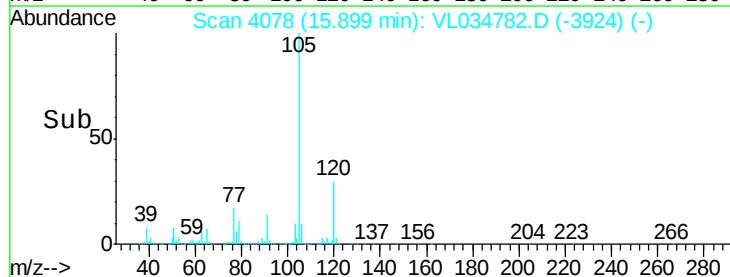
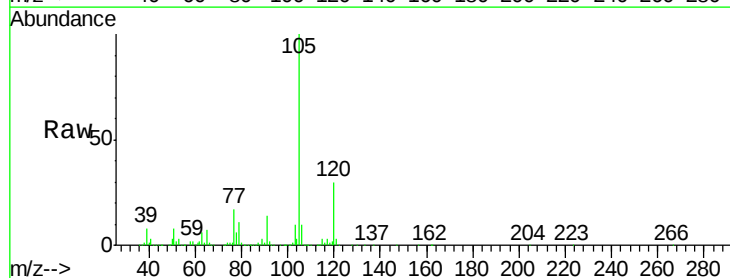
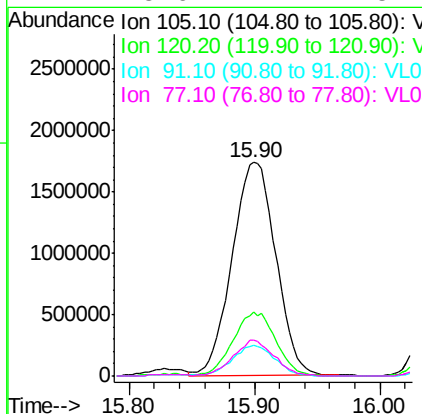
Manual Integrations
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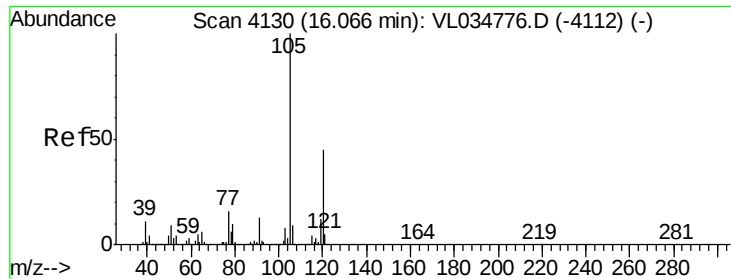
apatel
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#72
 4-Ethyltoluene
 Concen: 15.218 ppbv
 RT: 15.90 min Scan# 4078
 Delta R.T. -0.01 min
 Lab File: VL034782.D
 Acq: 4 Mar 2020 5:15

Tgt Ion: 105 Resp: 4207772
 Ion Ratio Lower Upper
 105 100
 120 29.5 23.0 34.6
 91 13.9 11.1 16.7
 77 15.6 12.2 18.4





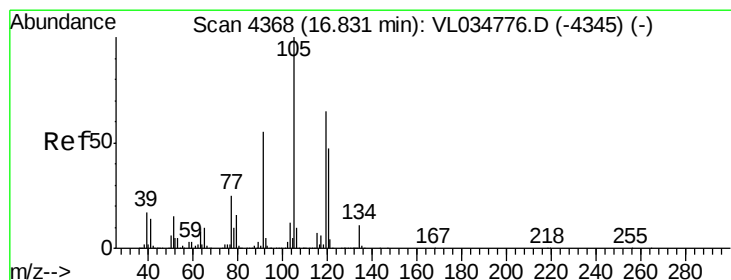
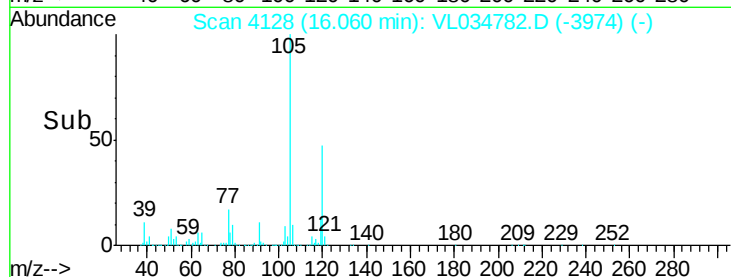
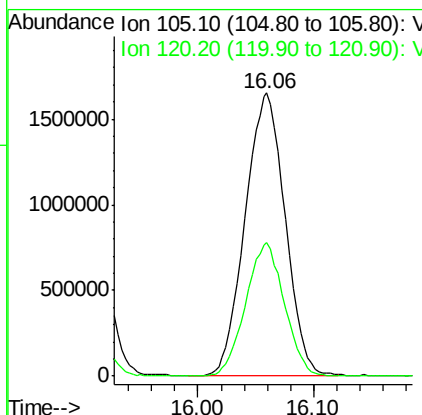
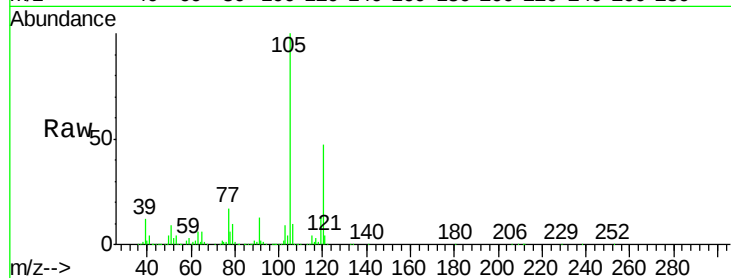
#73
 1,3,5-Trimethylbenzene
 Concen: 14.822 ppbv
 RT: 16.06 min Scan# 4128
 Delta R.T. -0.01 min
 Lab File: VL034782.D
 Acq: 4 Mar 2020 5:15

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:105 Resp: 3949096
 Ion Ratio Lower Upper
 105 100
 120 47.1 35.6 53.4

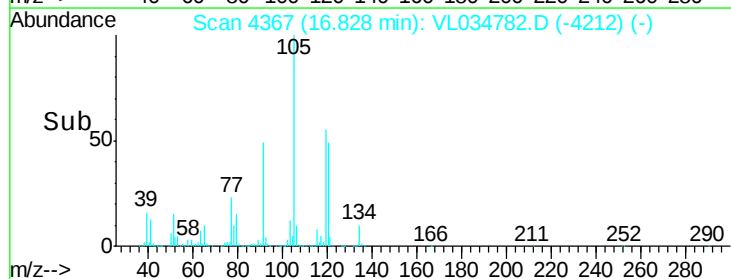
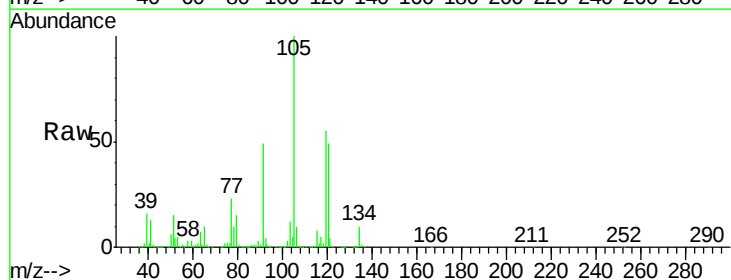
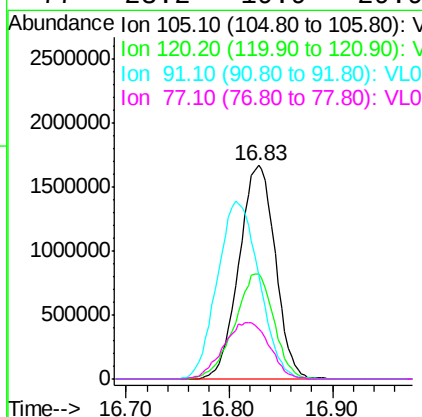
Manual Integrations
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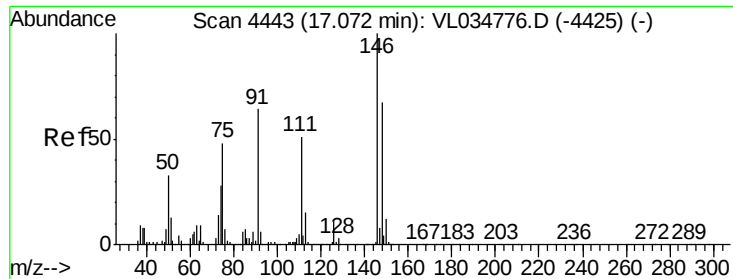
apatel
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#74
 1,2,4-Trimethylbenzene
 Concen: 13.839 ppbv
 RT: 16.83 min Scan# 4367
 Delta R.T. -0.00 min
 Lab File: VL034782.D
 Acq: 4 Mar 2020 5:15

Tgt Ion:105 Resp: 4075810
 Ion Ratio Lower Upper
 105 100
 120 49.4 37.8 56.6
 91 48.5 43.8 65.8
 77 23.2 19.9 29.9





#75

1,3-Dichlorobenzene

Concen: 13.952 ppbv

RT: 17.07 min Scan# 4441

Delta R.T. -0.01 min

Lab File: VL034782.D

Acq: 4 Mar 2020 5:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 2371254

Ion Ratio Lower Upper

146 100

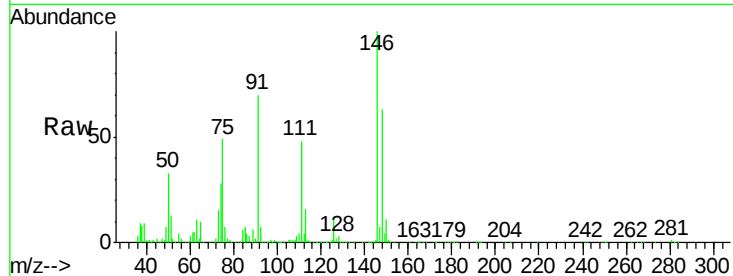
111 49.0 24.7 74.1

148 64.8 31.8 95.4

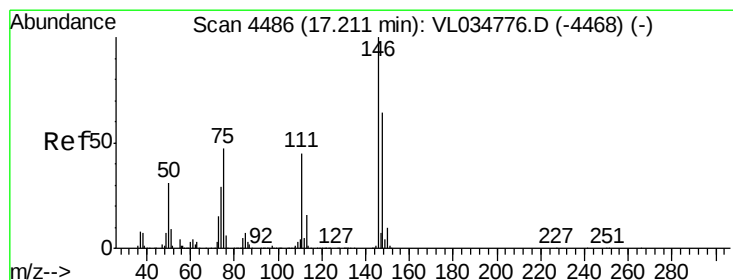
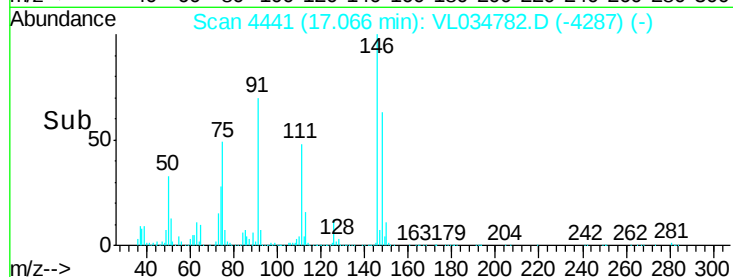
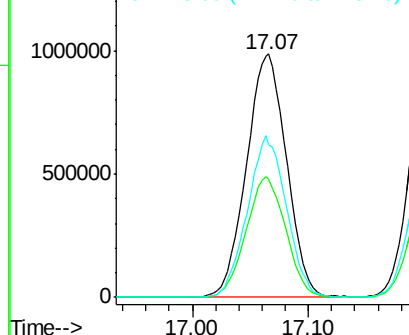
Manual Integrations
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 14.066 ppbv

RT: 17.20 min Scan# 4484

Delta R.T. -0.01 min

Lab File: VL034782.D

Acq: 4 Mar 2020 5:15

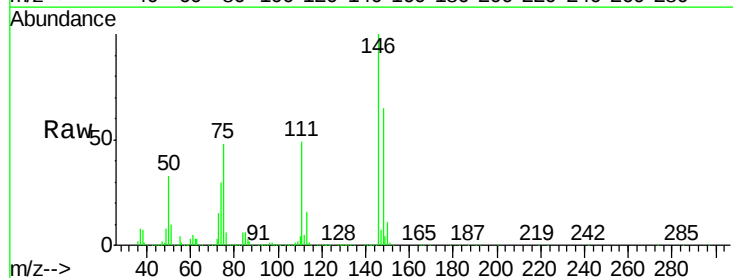
Tgt Ion:146 Resp: 2385828

Ion Ratio Lower Upper

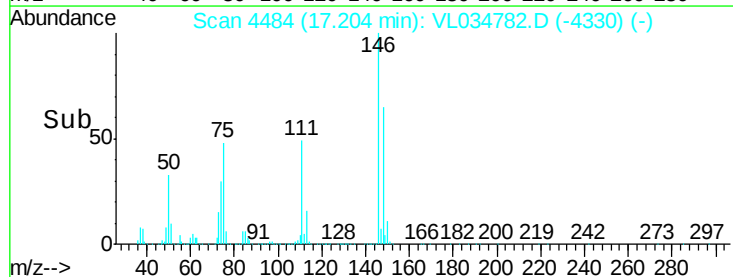
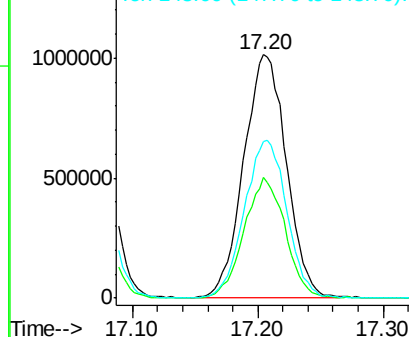
146 100

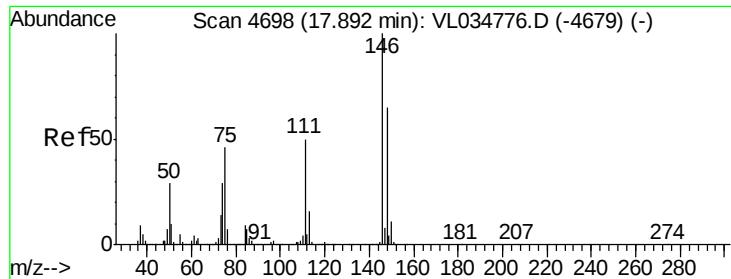
111 47.8 23.5 70.5

148 64.5 32.2 96.6



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: 14.209 ppbv

RT: 17.89 min Scan# 4696

Delta R.T. -0.01 min

Lab File: VL034782.D

Acq: 4 Mar 2020 5:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 2332947

Ion Ratio Lower Upper

146 100

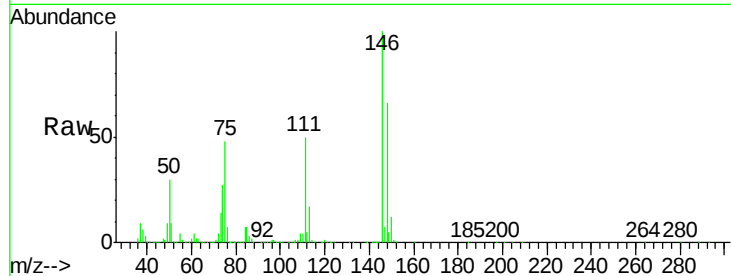
111 49.9 25.3 75.8

148 64.8 32.3 96.9

Manual Integrations
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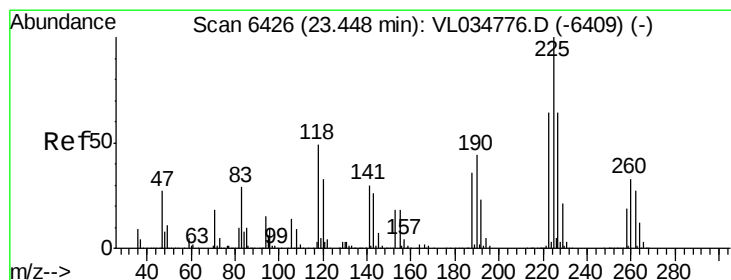
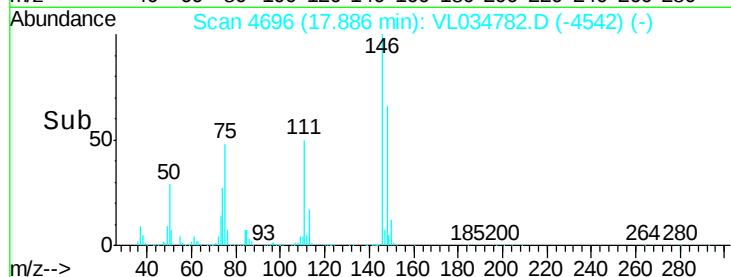
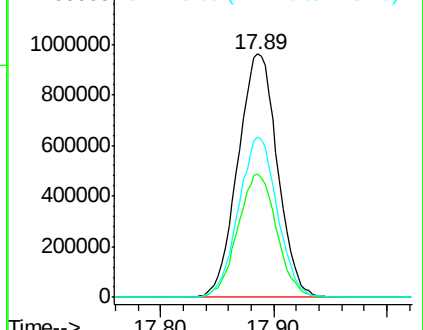
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 13.156 ppbv

RT: 23.45 min Scan# 6425

Delta R.T. -0.00 min

Lab File: VL034782.D

Acq: 4 Mar 2020 5:15

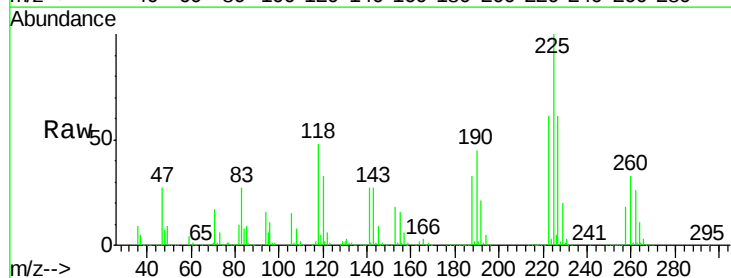
Tgt Ion:225 Resp: 1860962

Ion Ratio Lower Upper

225 100

223 62.8 51.3 76.9

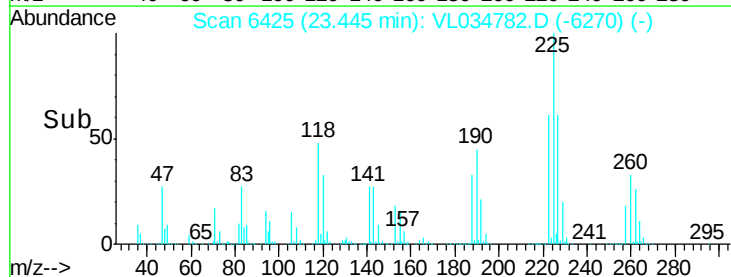
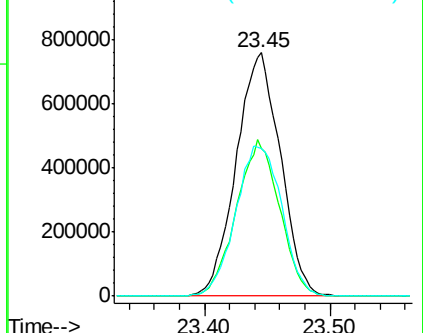
227 64.3 51.9 77.9

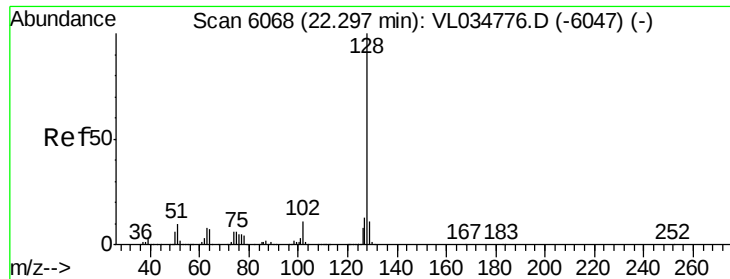


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





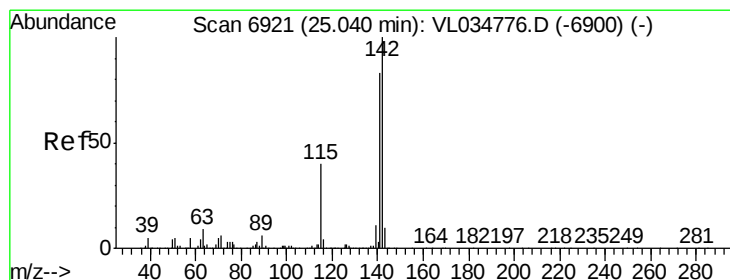
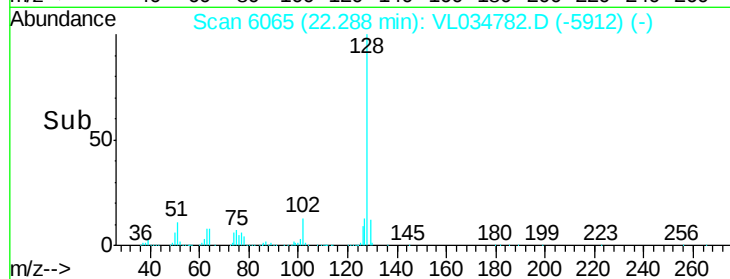
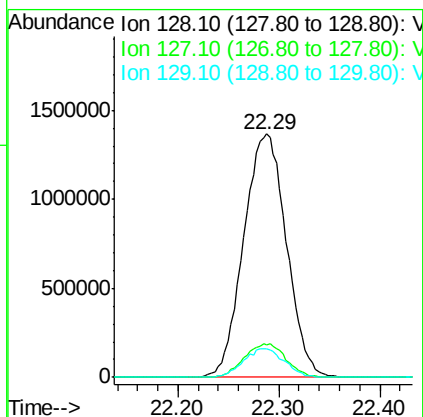
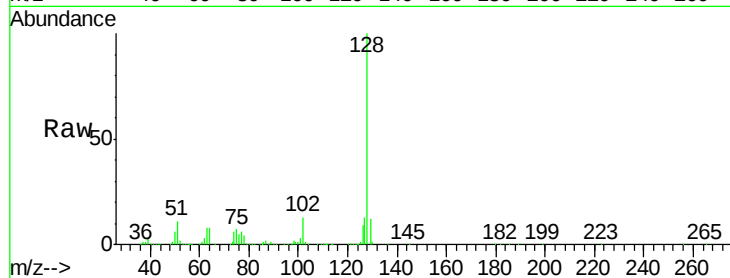
#79
Naphthalene
Concen: 15.468 ppbv
RT: 22.29 min Scan# 6065
Delta R.T. -0.01 min
Lab File: VL034782.D
Acq: 4 Mar 2020 5:15

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.2	15.4
129	11.6	9.0	13.6

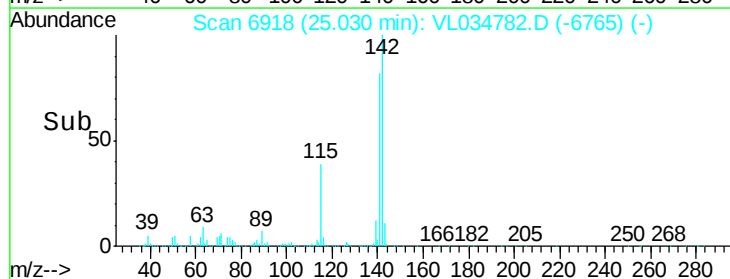
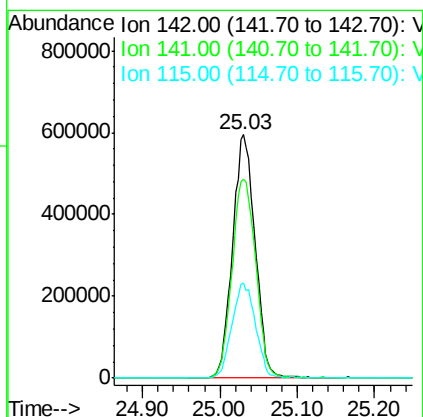
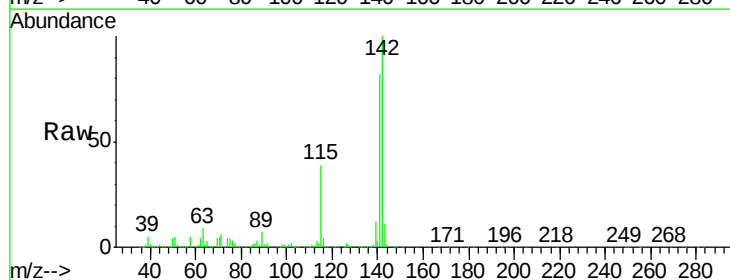
Manual Integrations
APPROVED

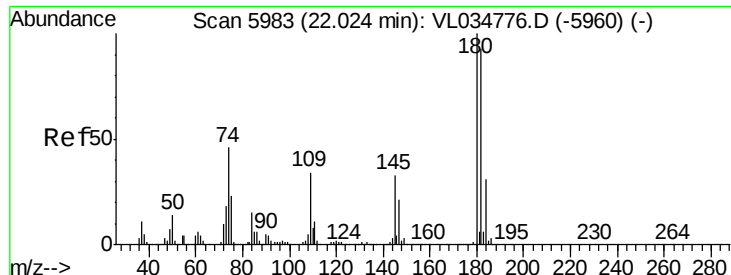
apatel
3/4/2020 4:45:34 PM



#80
Naphthalene, 2-methyl-
Concen: 14.855 ppbv
RT: 25.03 min Scan# 6918
Delta R.T. -0.01 min
Lab File: VL034782.D
Acq: 4 Mar 2020 5:15

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.8	67.7	101.5
115	40.8	30.7	46.1





#81
 1,2,4-Trichlorobenzene
 Concen: 14.740 ppbv
 RT: 22.01 min Scan# 5979
 Delta R.T. -0.01 min
 Lab File: VL034782.D
 Acq: 4 Mar 2020 5:15

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.1	76.8	115.2
184	31.6	24.8	37.2

Manual Integrations
 APPROVED

apatel
 3/4/2020 4:45:34 PM

