

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031020\
 Data File : VL034883.D
 Acq On : 11 Mar 2020 9:38
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

sam
 3/16/2020 9:13:43 AM

Quant Time: Mar 11 12:54:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 0
 QLast Update : Mon Mar 09 16:42:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	924151	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2010623	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2062610	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1681655	10.45	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.50%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.01	85	1545717	12.214	ppbv 99
3) Chlorodifluoromethane	2.95	51	987707	9.568	ppbv 96
4) Chloromethane	3.10	50	577552	9.899	ppbv 99
5) Vinyl Chloride	3.22	62	555992	9.912	ppbv 93
6) Bromomethane	3.44	94	333929	10.227	ppbv 100
7) Chloroethane	3.52	64	210426	10.388	ppbv 97
8) Dichlorotetrafluoroethane	3.15	85	1263430	9.613	ppbv 96
9) Propene	2.97	41	448590	9.101	ppbv 100
10) Heptane	8.13	43	1203699	9.923	ppbv 99
11) Trichlorofluoromethane	3.92	101	1281002	9.515	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.46	101	903930	9.593	ppbv 95
13) Ethanol	3.57	45	111859	7.465	ppbv 97
14) Bromoethene	3.71	108	392152	9.636	ppbv 99
15) Acetone	3.82	43	1166028	9.735	ppbv 99
16) 1,3-Butadiene	3.29	39	533506	9.850	ppbv 99
17) tert-Butyl alcohol	4.27	59	826910	7.166	ppbv 99
18) 1,1-Dichloroethene	4.26	96	408433	9.788	ppbv 99
19) Isopropyl Alcohol	3.94	45	563356	7.448	ppbv # 42
20) Methylene Chloride	4.32	84	358765	9.474	ppbv 95
21) Allyl Chloride	4.38	41	719444	9.352	ppbv 98
22) trans-1,2-Dichloroethene	4.87	96	415863	9.823	ppbv 96
23) Vinyl Acetate	5.06	43	1719218	9.717	ppbv 98
24) 1,1-Dichloroethane	4.99	63	1127611	9.507	ppbv 99
25) Ethyl Acetate	5.66	43	2006120	9.401	ppbv 100
26) Hexane	5.67	57	894717	9.737	ppbv 98
27) Carbon Disulfide	4.53	76	989603	9.490	ppbv 98
28) Methyl tert-Butyl Ether	5.01	73	1385773	9.064	ppbv 99
29) Chloroform	5.74	83	1355434	9.668	ppbv 96
30) Cyclohexane	7.13	84	739247	9.642	ppbv 99
31) cis-1,2-Dichloroethene	5.54	61	913908	9.725	ppbv 99
32) 1,1,1-Trichloroethane	6.51	97	1327524	9.717	ppbv 99
34) 2-Butanone	5.23	43	1342896	10.050	ppbv 100
35) Carbon Tetrachloride	7.02	117	1335322	10.678	ppbv 99
36) Benzene	6.90	78	1771289	9.883	ppbv 99
37) 1,2-Dichloroethane	6.30	62	1053458	10.425	ppbv 98
38) Trichloroethene	7.84	130	675575	9.925	ppbv 97
39) 1,2-Dichloropropane	7.62	63	680774	9.588	ppbv 94
40) 1,4-Dioxane	7.83	88	226811	8.458	ppbv # 88
41) Tetrahydrofuran	6.04	42	739368	10.227	ppbv 100
42) Bromodichloromethane	7.80	83	1411335	10.247	ppbv 96
43) Methyl Methacrylate	8.02	69	811662	10.750	ppbv 97

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Manual Integrations
 APPROVED

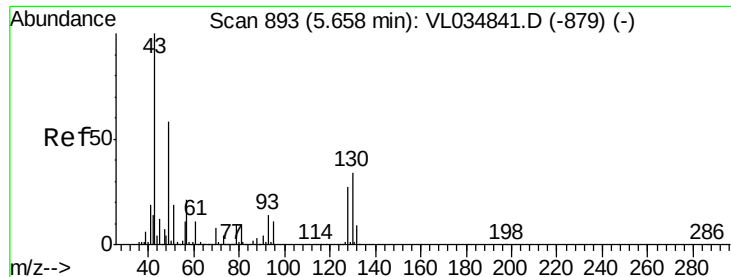
sam
 3/16/2020 9:13:43 AM

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 0
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 Response via : Initial Calibration

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

44) 2,2,4-Trimethylpentane	7.87	57	3069043	10.134	ppbv	99
45) t-1,3-Dichloropropene	9.29	75	930081	10.485	ppbv	99
46) cis-1,3-Dichloropropene	8.71	75	1099755	10.433	ppbv	97
47) 1,1,2-Trichloroethane	9.49	97	727655	9.986	ppbv	97
48) Dibromochloromethane	10.33	129	1153192	9.772	ppbv	100
49) Bromoform	13.07	173	993639	9.443	ppbv	100
50) 4-Methyl-2-Pentanone	8.75	43	1995018	10.372	ppbv	99
51) 2-Hexanone	10.15	43	1614668	10.330	ppbv #	99
52) Tetrachloroethene	11.25	164	618887	8.729	ppbv	96
53) Toluene	9.82	91	2060294	9.955	ppbv	99
54) 1,2-Dibromoethane	10.64	107	1087591	9.915	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.15	131	878729	9.484	ppbv	99
57) Chlorobenzene	12.17	112	1508654	9.348	ppbv	94
58) Ethyl Benzene	12.73	91	2732807	9.784	ppbv	100
59) m/p-Xylene	13.00	91	4617560m	19.732	ppbv	
60) o-Xylene	13.72	91	2214113	9.690	ppbv	98
61) Styrene	13.56	104	1606539m	10.019	ppbv	
62) Isopropylbenzene	14.70	105	3216140	9.309	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.71	83	1516029	9.774	ppbv	99
64) n-propylbenzene	15.59	120	848229	9.433	ppbv	94
65) tert-Butylbenzene	16.78	119	2787533	9.230	ppbv	97
66) Benzyl Chloride	17.03	91	1229385	9.762	ppbv	97
67) sec-Butylbenzene	17.33	105	3997432	9.545	ppbv	99
69) p-Isopropyltoluene	17.69	119	3327897	9.477	ppbv	99
70) n-Butylbenzene	18.59	91	3532972	9.861	ppbv	99
71) 2-Chlorotoluene	15.49	91	2463796	9.417	ppbv	99
72) 4-Ethyltoluene	15.87	105	2621817	9.716	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	2462051	9.747	ppbv	95
74) 1,2,4-Trimethylbenzene	16.80	105	2563912	9.852	ppbv	97
75) 1,3-Dichlorobenzene	17.04	146	1458500	9.295	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	1481486	9.461	ppbv	99
77) 1,2-Dichlorobenzene	17.85	146	1434003	9.428	ppbv	97
78) Hexachloro-1,3-Butadiene	23.42	225	1274997	10.036	ppbv	99
79) Naphthalene	22.25	128	2548029	12.555	ppbv	99
80) Naphthalene, 2-methyl-	25.01	142	986379	18.598	ppbv	98
81) 1,2,4-Trichlorobenzene	21.99	180	1459613	11.320	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. 0.00 min

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Instrument :

MSVOA_L

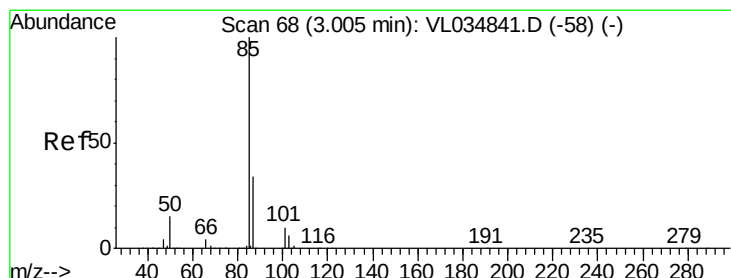
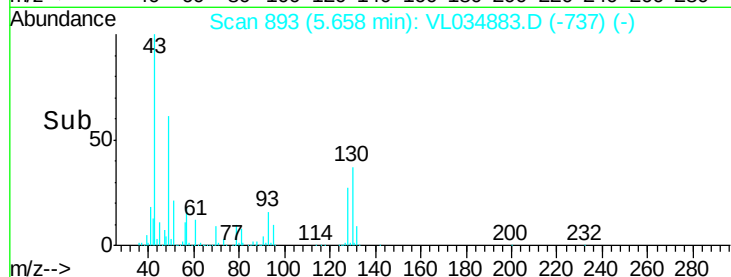
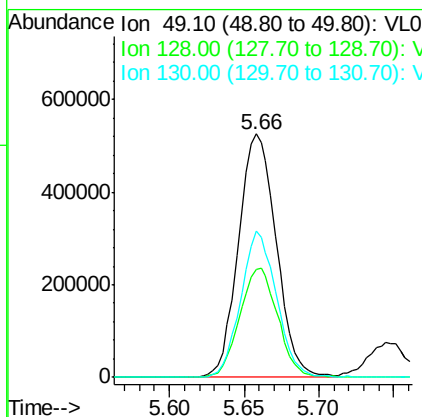
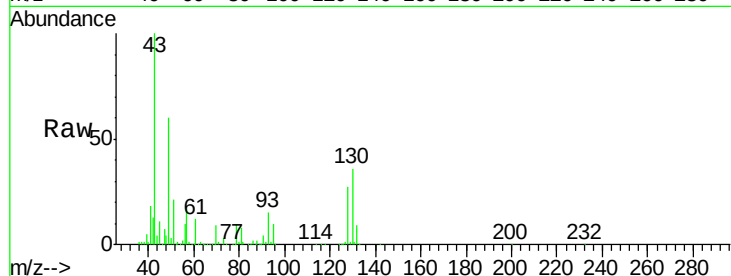
ClientSampleId :

VSTDCCC010EC

Tot Ion:	49	Resp:	924151
Ion	Ratio	Lower	Upper
49	100		
128	45.1	23.4	70.3
130	57.2	30.0	90.0

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 12.214 ppbv

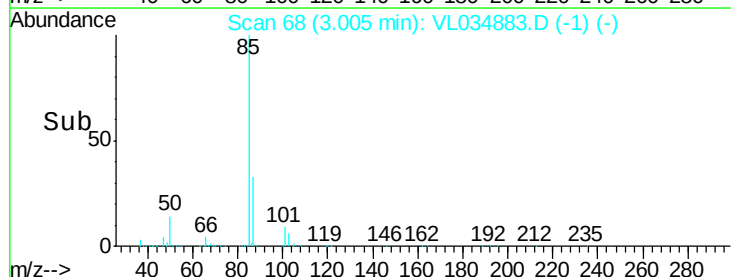
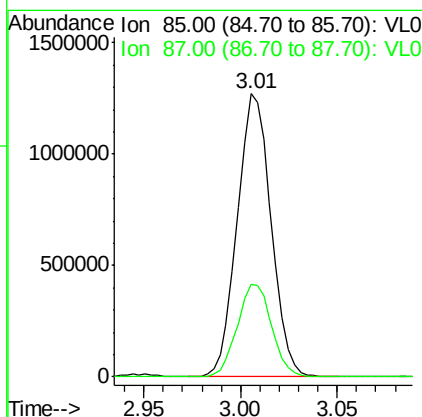
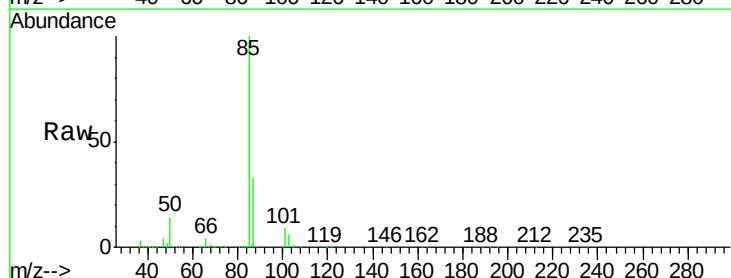
RT: 3.01 min Scan# 68

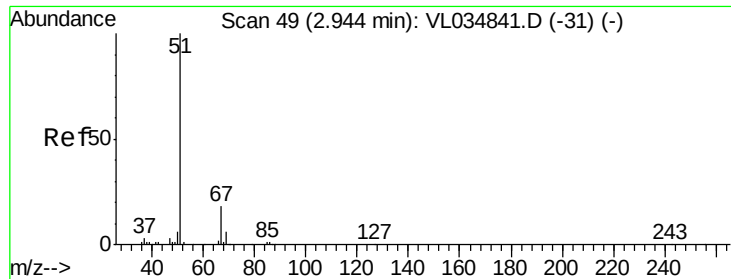
Delta R.T. 0.00 min

Lab File: VL034883.D

Acq: 11 Mar 2020 9:38

Tgt Ion:	85	Resp:	1545717
Ion	Ratio	Lower	Upper
85	100		
87	32.8	26.9	40.3





#3

Chlorodifluoromethane

Concen: 9.568 ppbv

RT: 2.95 min Scan# 50

Delta R.T. 0.00 min

Lab File: VL034883.D

Acq: 11 Mar 2020 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 51 Resp: 987707

Ion Ratio Lower Upper

51 100

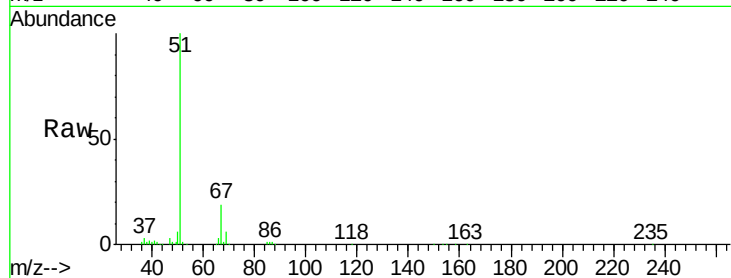
67 19.5 14.3 21.5

Manual Integrations

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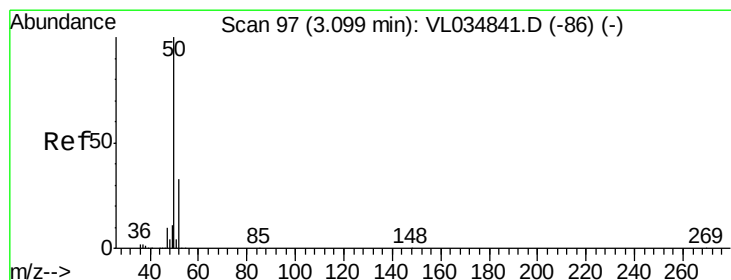
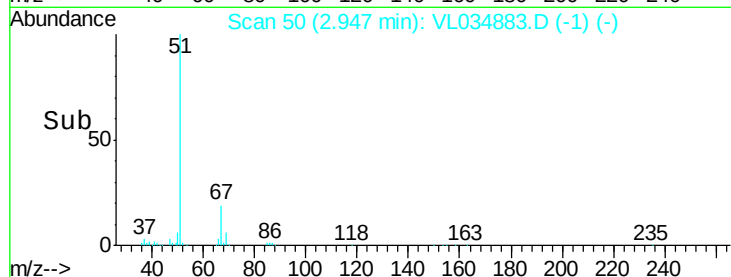
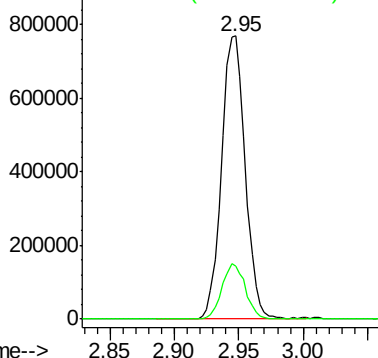
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.899 ppbv

RT: 3.10 min Scan# 97

Delta R.T. 0.00 min

Lab File: VL034883.D

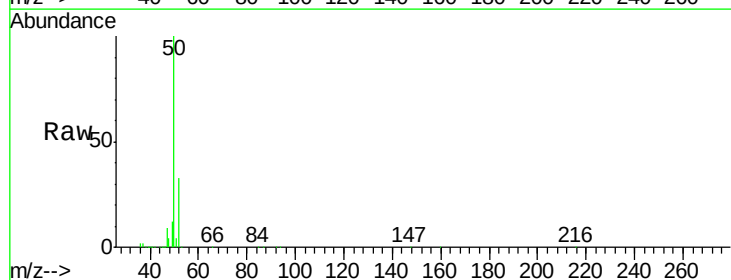
Acq: 11 Mar 2020 9:38

Tgt Ion: 50 Resp: 577552

Ion Ratio Lower Upper

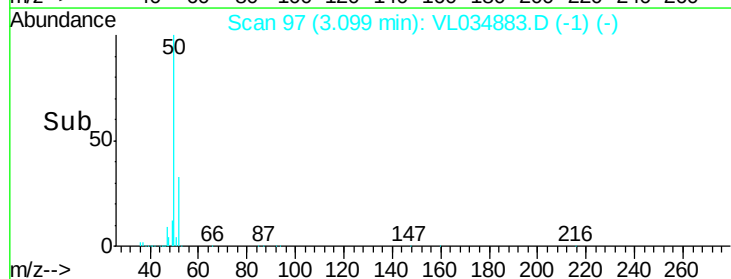
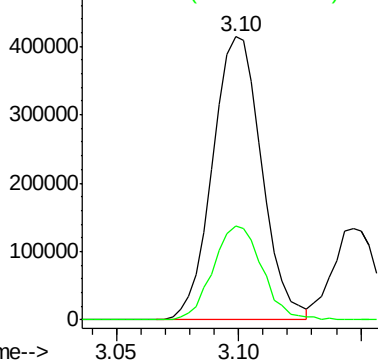
50 100

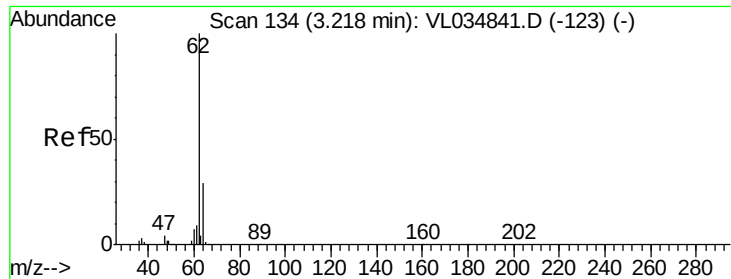
52 33.0 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.912 ppbv

RT: 3.22 min Scan# 134

Delta R.T. 0.00 min

Lab File: VL034883.D

Acq: 11 Mar 2020 9:38

Instrument :

MSVOA_L

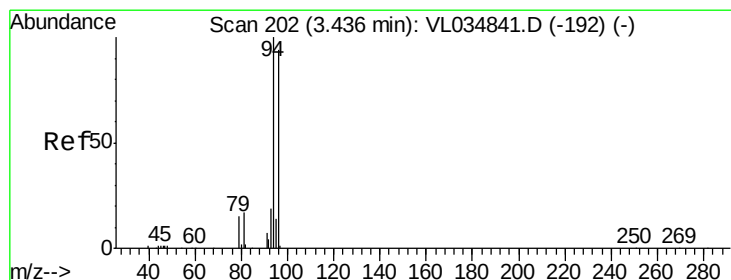
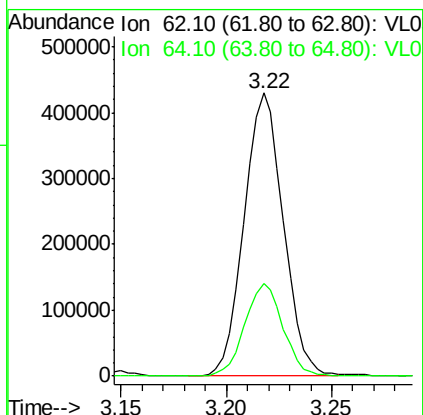
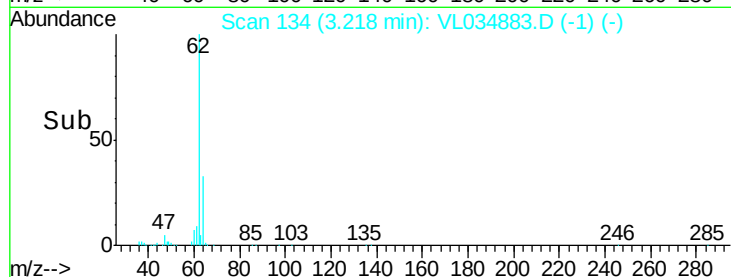
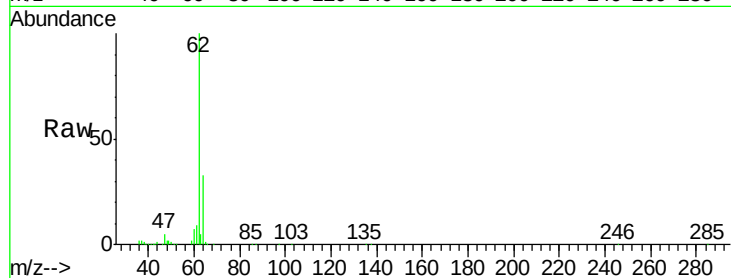
ClientSampleId :

VSTDCCC010EC

Tot Ion	62	Resp	555992
Ion	Ratio	Lower	Upper
62	100		
64	32.5	23.0	34.4

Manual Integrations
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#6

Bromomethane

Concen: 10.227 ppbv

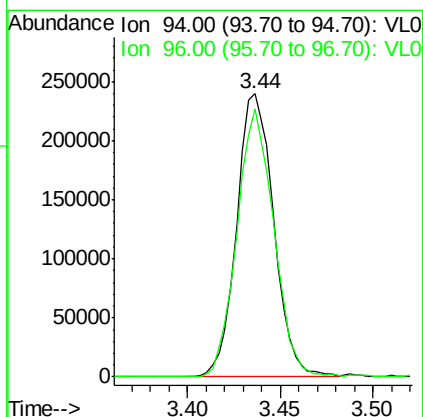
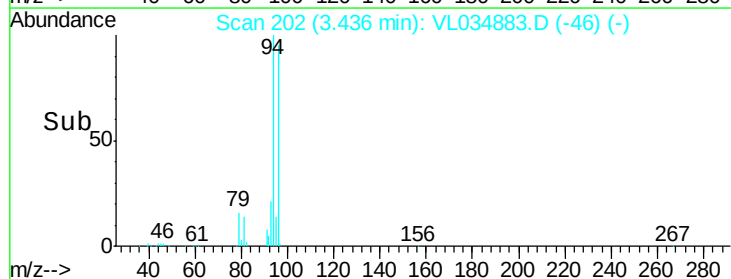
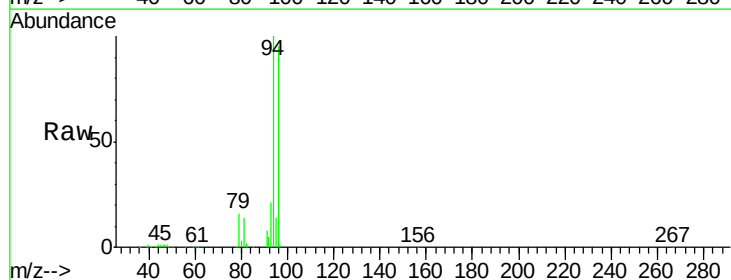
RT: 3.44 min Scan# 202

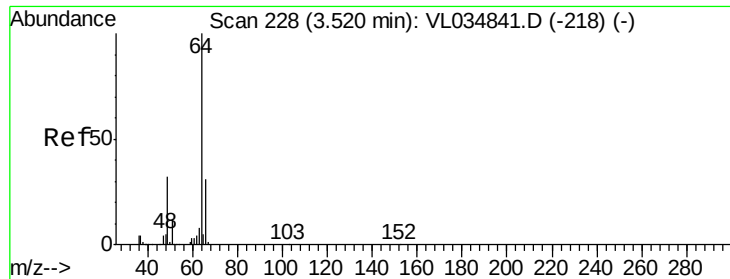
Delta R.T. 0.00 min

Lab File: VL034883.D

Acq: 11 Mar 2020 9:38

Tgt Ion	94	Resp	333929
Ion	Ratio	Lower	Upper
94	100		
96	94.5	75.5	113.3





#7

Chloroethane

Concen: 10.388 ppbv

RT: 3.52 min Scan# 229

Delta R.T. 0.00 min

Lab File: VL034883.D

Acq: 11 Mar 2020 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 210426

Ion Ratio Lower Upper

64 100

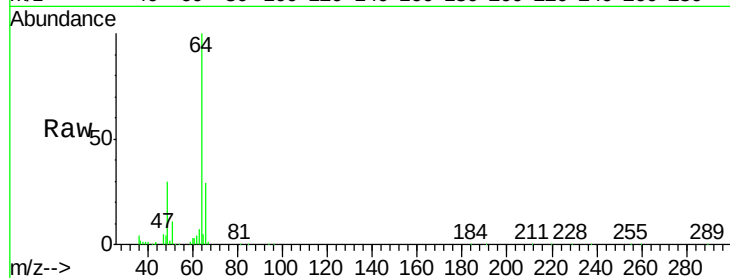
66 29.4 24.8 37.2

Manual Integrations

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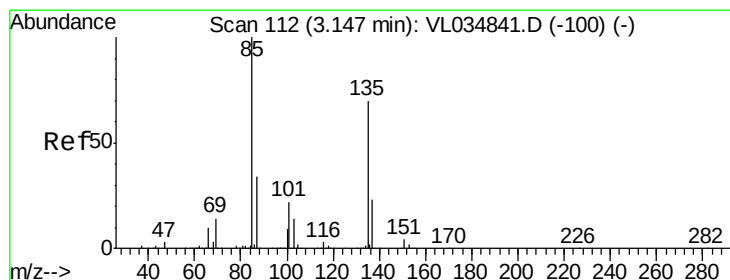
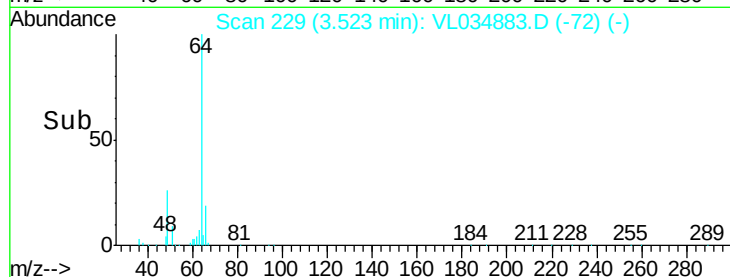
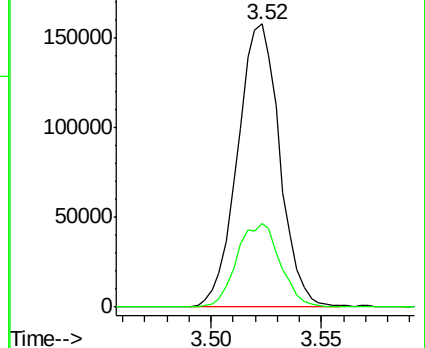
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 9.613 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL034883.D

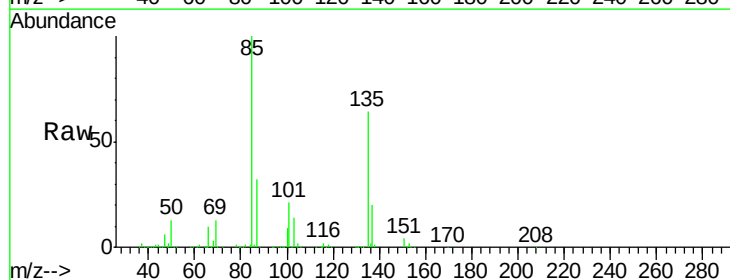
Acq: 11 Mar 2020 9:38

Tgt Ion: 85 Resp: 1263430

Ion Ratio Lower Upper

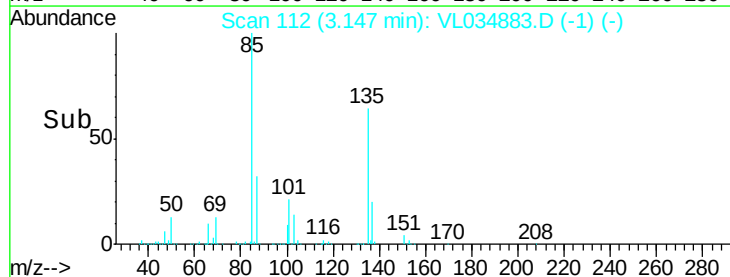
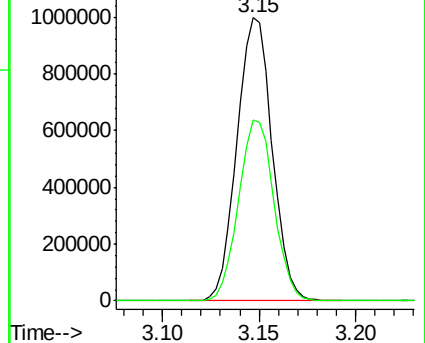
85 100

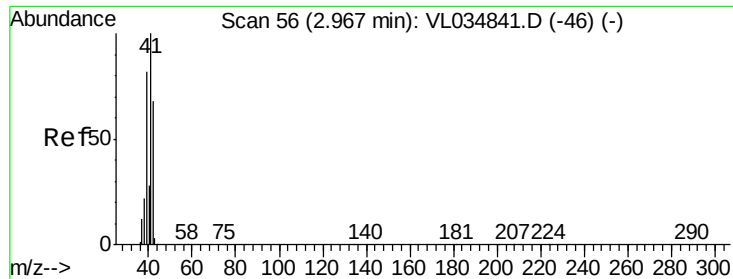
135 64.4 54.3 81.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 9.101 ppbv

RT: 2.97 min Scan# 57

Delta R.T. 0.00 min

Lab File: VL034883.D

Acq: 11 Mar 2020 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 448590

Ion Ratio Lower Upper

41 100

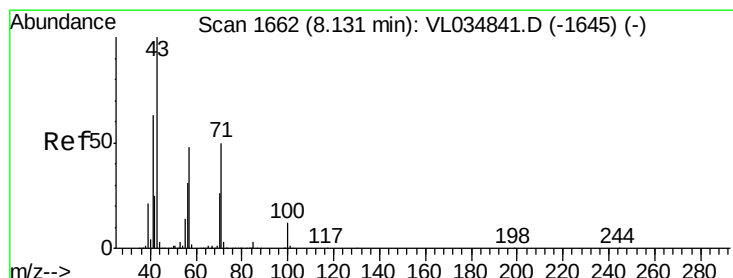
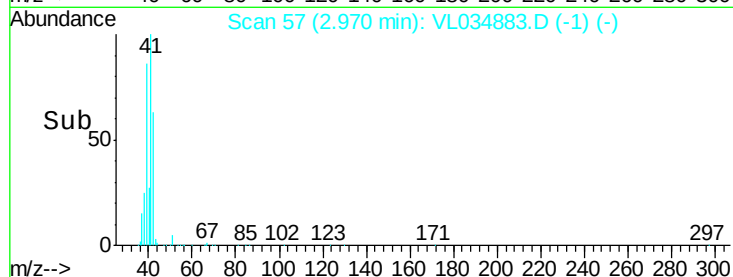
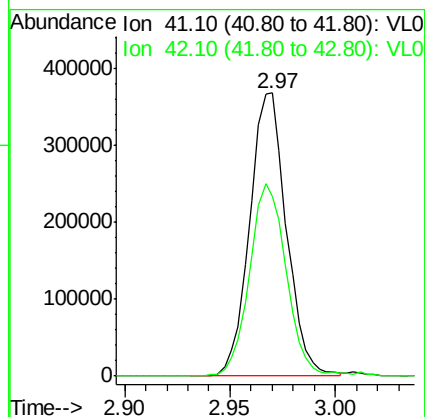
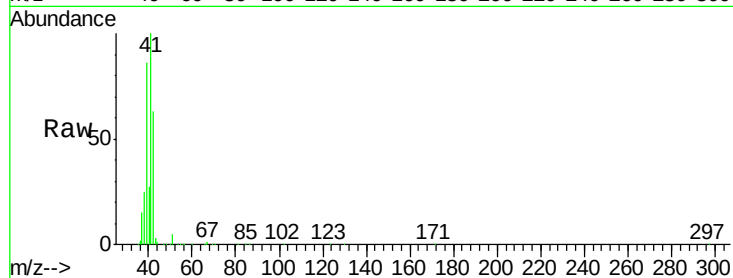
42 68.7 55.2 82.8

Manual Integrations

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#10

Heptane

Concen: 9.923 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. 0.00 min

Lab File: VL034883.D

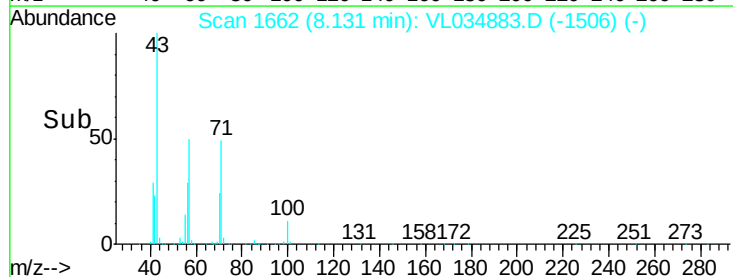
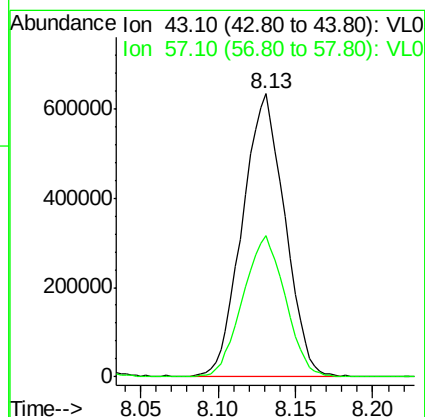
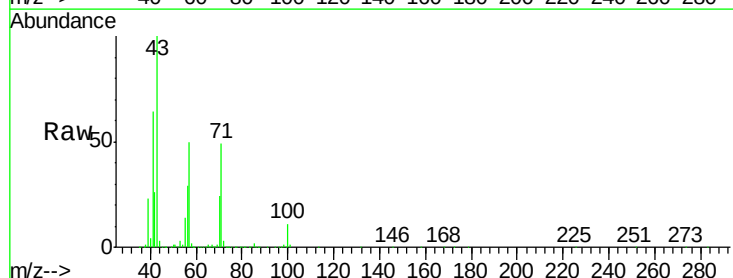
Acq: 11 Mar 2020 9:38

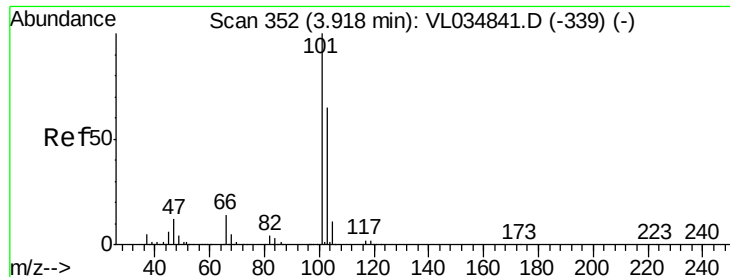
Tgt Ion: 43 Resp: 1203699

Ion Ratio Lower Upper

43 100

57 50.4 39.7 59.5





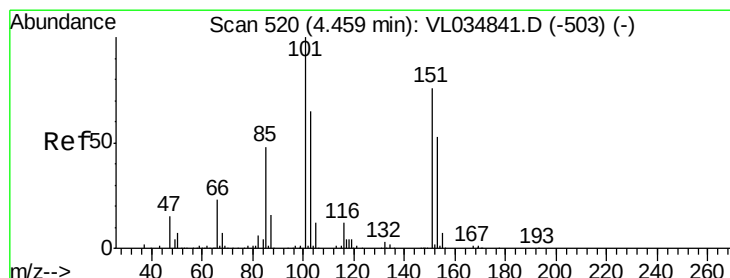
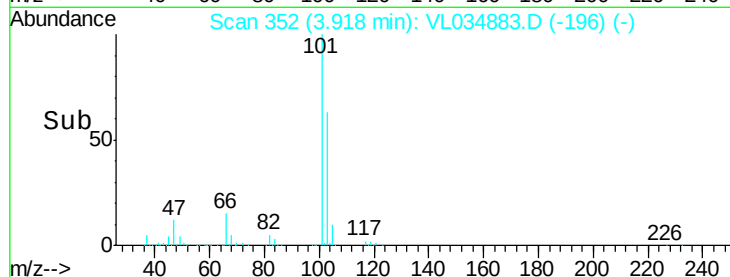
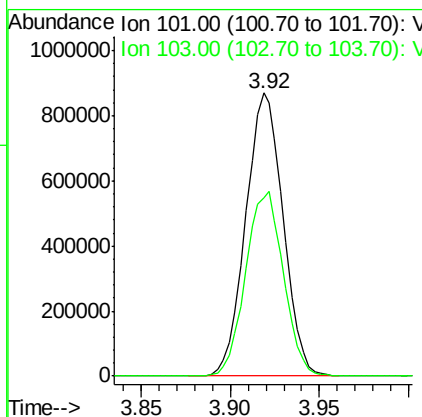
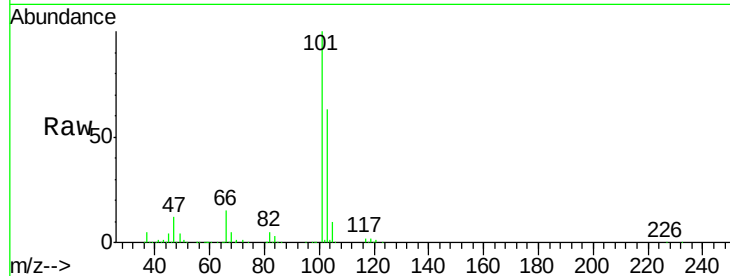
#11
 Trichlorofluoromethane
 Concen: 9.515 ppbv
 RT: 3.92 min Scan# 352
 Delta R.T. 0.00 min
 Lab File: VL034883.D
 Acq: 11 Mar 2020 9:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 1281002
 Ion Ratio Lower Upper
 101 100
 103 63.1 51.8 77.8

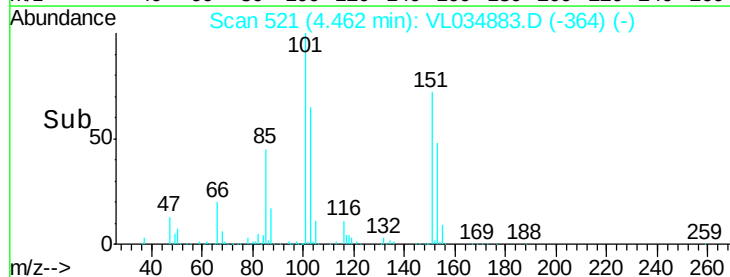
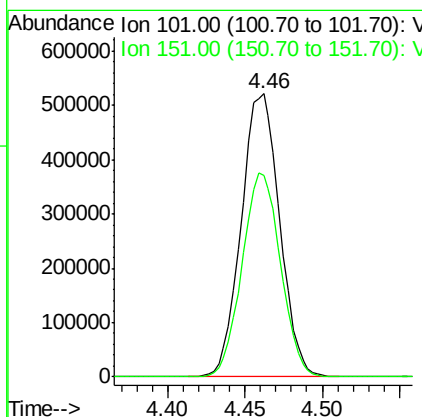
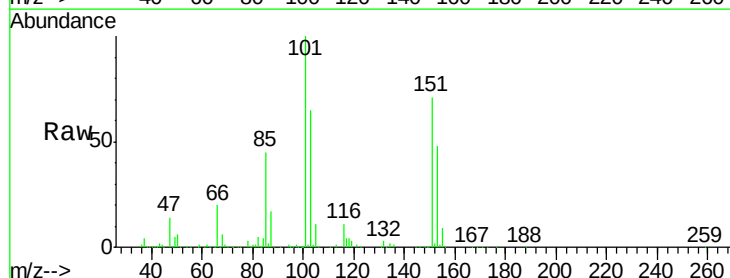
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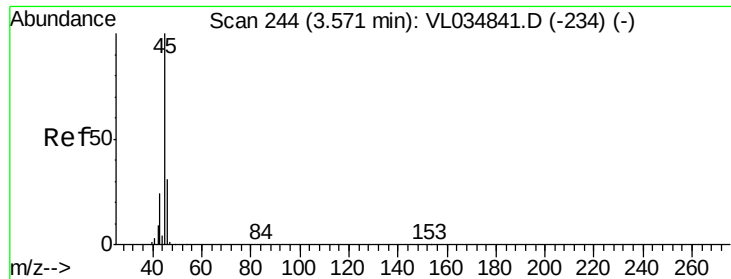
sam
 3/16/2020 9:13:43 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.593 ppbv
 RT: 4.46 min Scan# 521
 Delta R.T. 0.00 min
 Lab File: VL034883.D
 Acq: 11 Mar 2020 9:38

Tgt Ion:101 Resp: 903930
 Ion Ratio Lower Upper
 101 100
 151 71.9 60.8 91.2





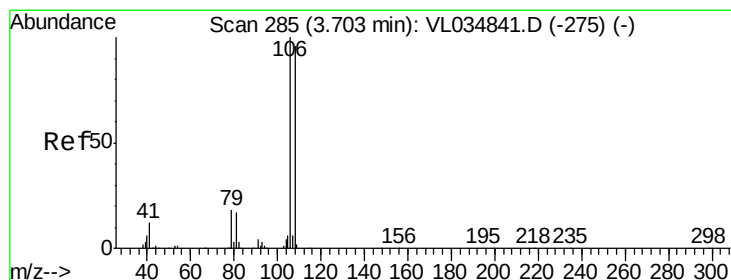
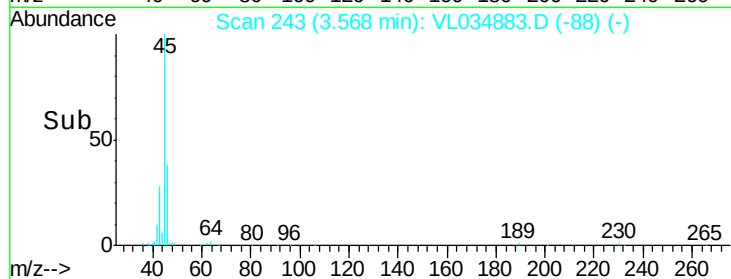
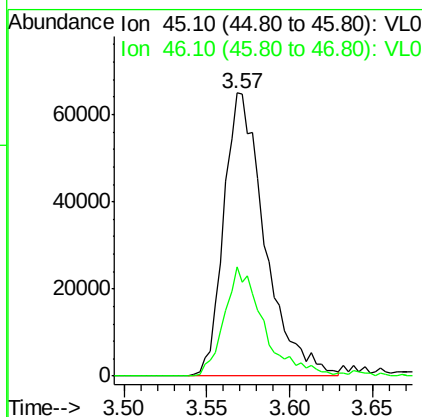
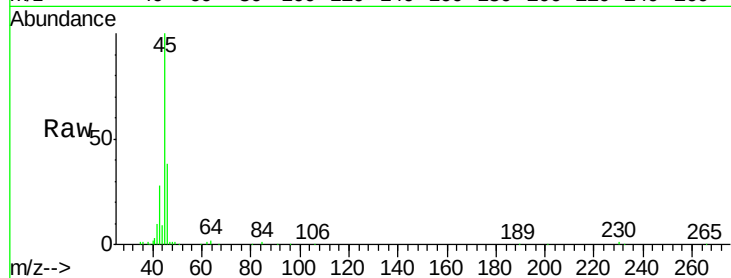
#13
Ethanol
Concen: 7.465 ppbv
RT: 3.57 min Scan# 243
Delta R.T. -0.00 min
Lab File: VL034883.D
Acq: 11 Mar 2020 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	45	Resp	111859
Ion Ratio	100	Lower	Upper
46	38.1	16.0	64.0

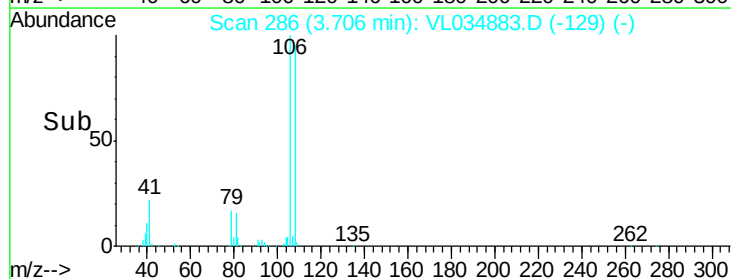
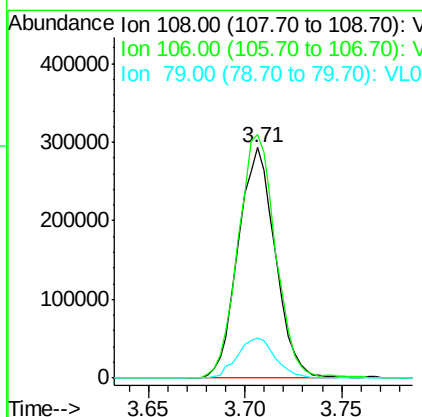
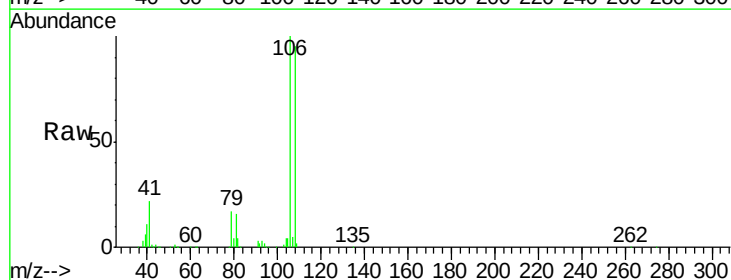
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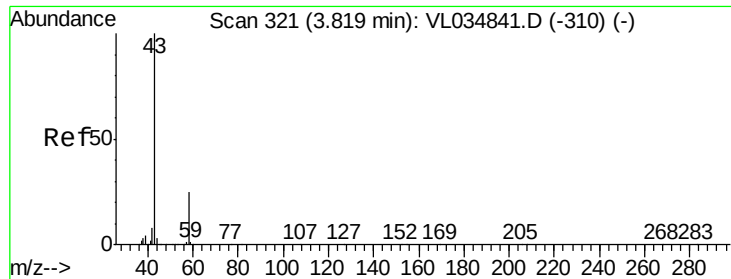
sam
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#14
Bromoethene
Concen: 9.636 ppbv
RT: 3.71 min Scan# 286
Delta R.T. 0.00 min
Lab File: VL034883.D
Acq: 11 Mar 2020 9:38

Tgt Ion	108	Resp	392152
Ion Ratio	100	Lower	Upper
106	107.3	85.1	127.7
79	18.0	14.7	22.1





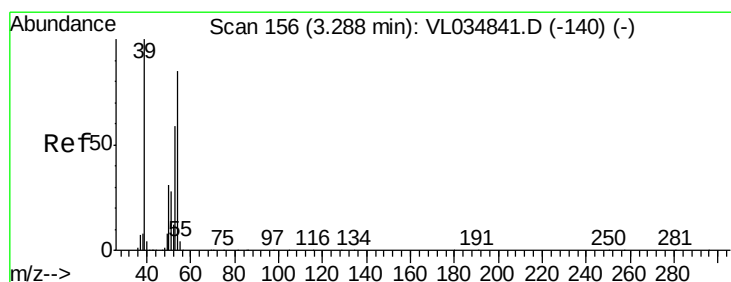
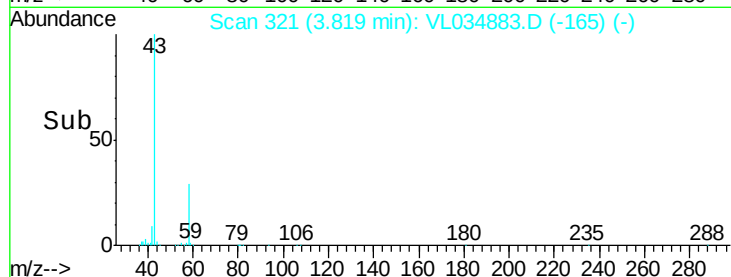
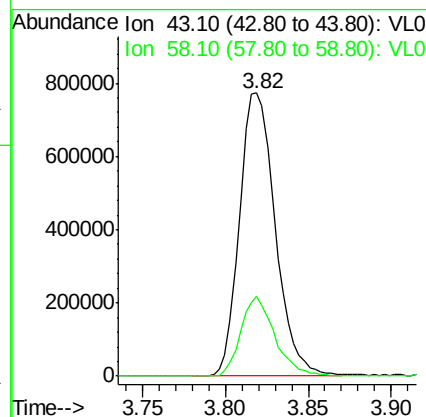
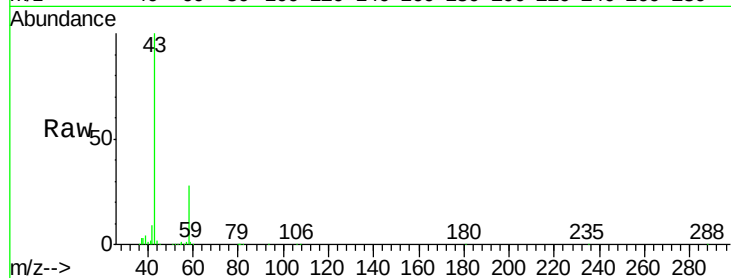
#15
Acetone
Concen: 9.735 ppbv
RT: 3.82 min Scan# 321
Delta R.T. 0.00 min
Lab File: VL034883.D
Acq: 11 Mar 2020 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1166028
Ion Ratio Lower Upper
43 100
58 26.7 21.0 31.6

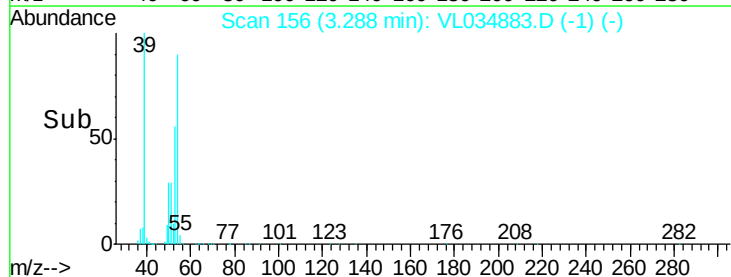
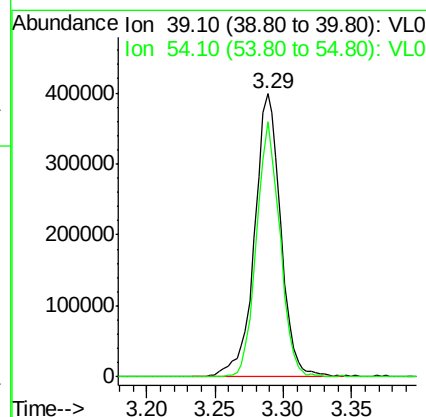
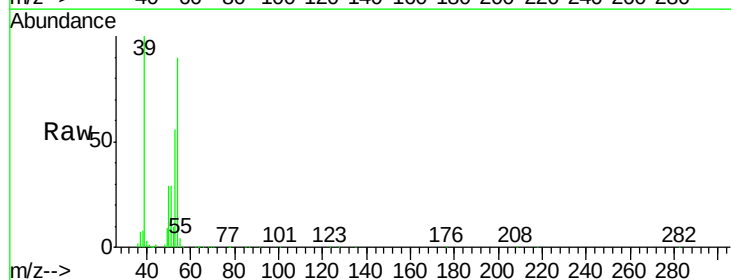
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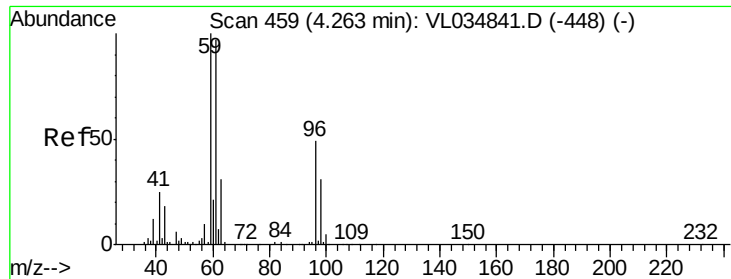
sam
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#16
1,3-Butadiene
Concen: 9.850 ppbv
RT: 3.29 min Scan# 156
Delta R.T. 0.00 min
Lab File: VL034883.D
Acq: 11 Mar 2020 9:38

Tgt Ion: 39 Resp: 533506
Ion Ratio Lower Upper
39 100
54 80.8 65.0 97.6





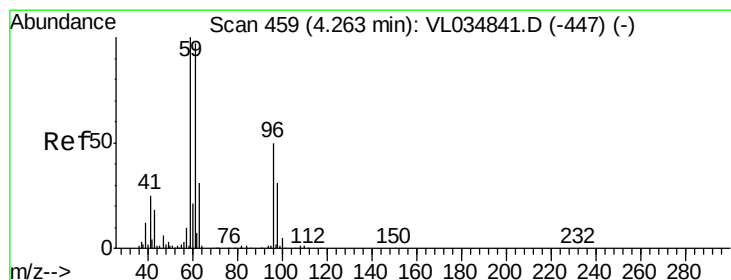
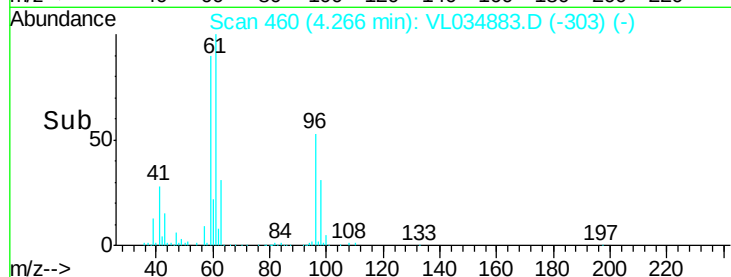
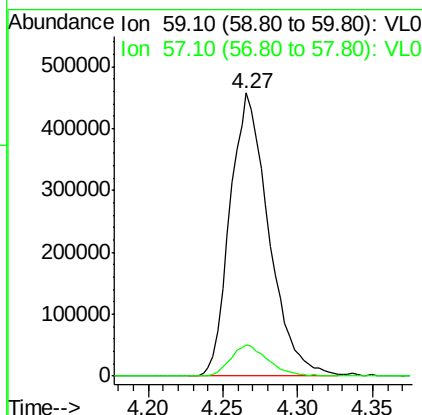
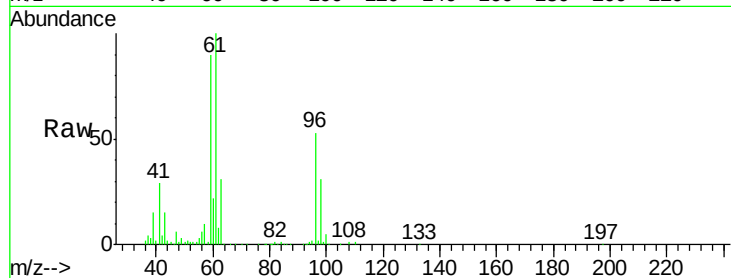
#17
tert-Butyl alcohol
Concen: 7.166 ppbv
RT: 4.27 min Scan# 460
Delta R.T. 0.00 min
Lab File: VL034883.D
Acq: 11 Mar 2020 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	59.10	Resp	826910
Ion Ratio	100	Lower	Upper
57	10.8	8.3	12.5

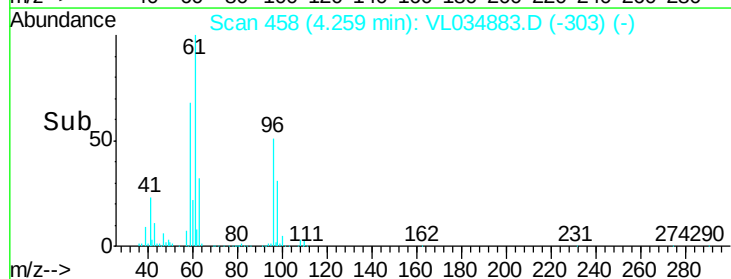
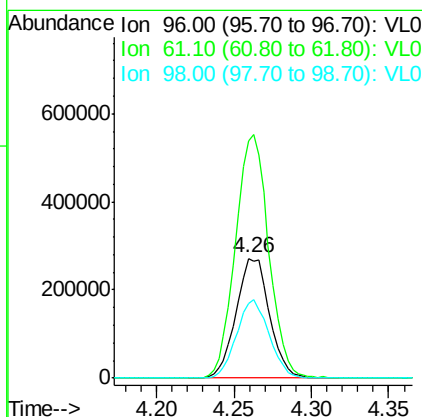
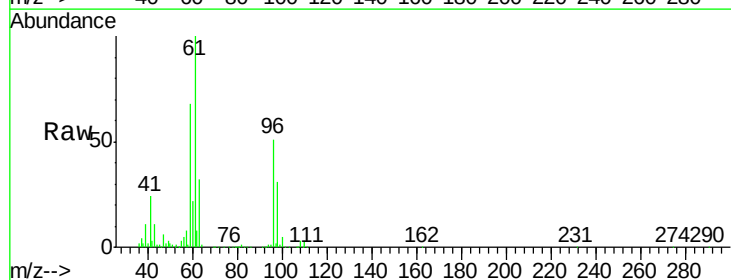
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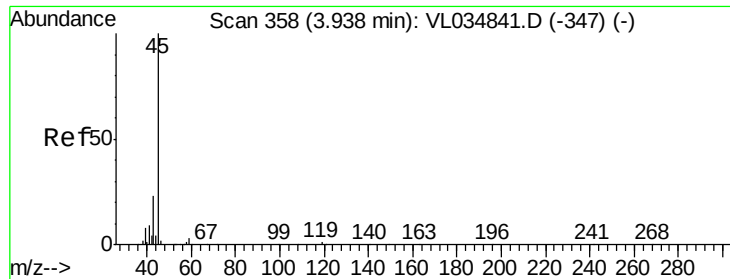
sam
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#18
1,1-Dichloroethene
Concen: 9.788 ppbv
RT: 4.26 min Scan# 458
Delta R.T. -0.00 min
Lab File: VL034883.D
Acq: 11 Mar 2020 9:38

Tgt Ion	96	Resp	408433
Ion Ratio	100	Lower	Upper
61	198.0	157.3	235.9
98	62.3	50.2	75.4





#19

Isopropyl Alcohol

Concen: 7.448 ppbv

RT: 3.94 min Scan# 359

Delta R.T. 0.00 min

Lab File: VL034883.D

Acq: 11 Mar 2020 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 563356

Ion Ratio Lower Upper

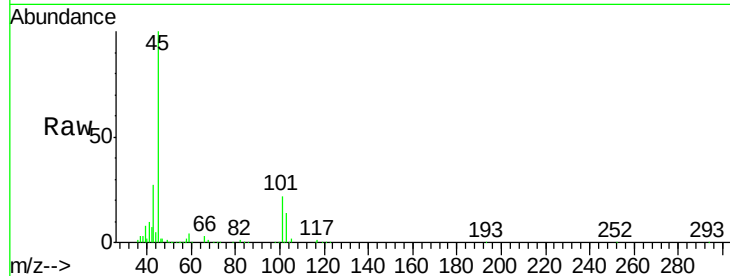
45 100

58 3.0 30.5 45.7#

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.94

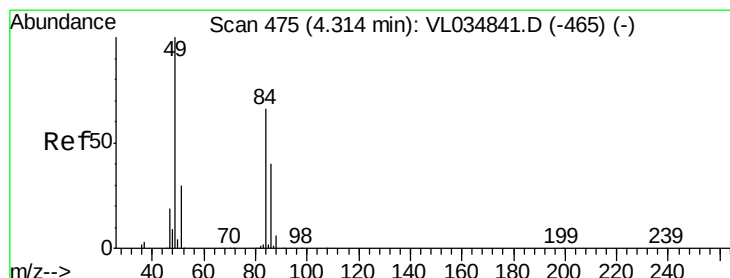
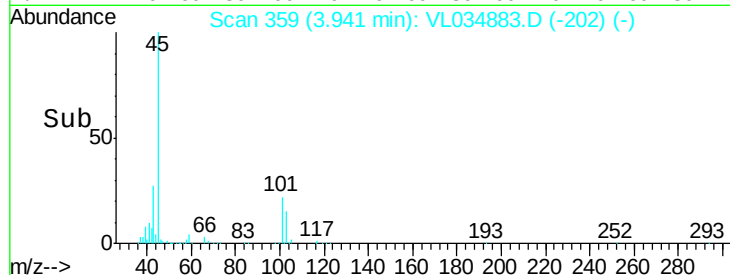
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 9.474 ppbv

RT: 4.32 min Scan# 476

Delta R.T. 0.00 min

Lab File: VL034883.D

Acq: 11 Mar 2020 9:38

Tgt Ion: 84 Resp: 358765

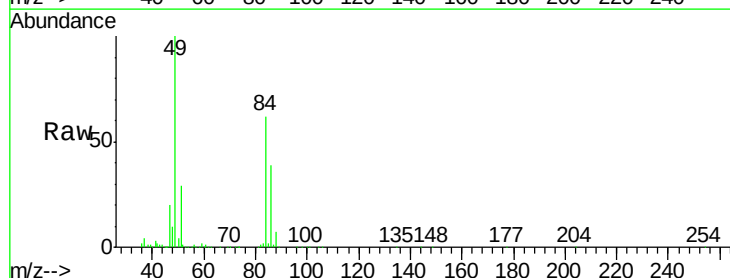
Ion Ratio Lower Upper

84 100

49 159.2 121.5 182.3

51 47.2 36.6 55.0

86 63.4 48.2 72.2



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

600000

500000

400000

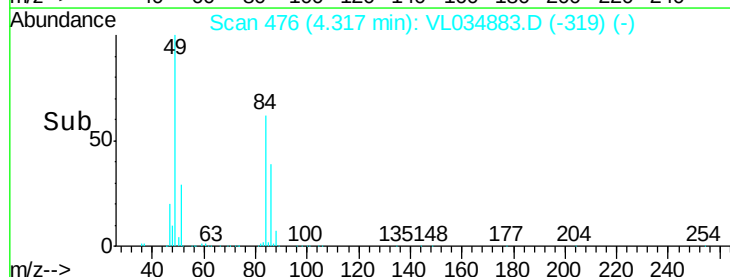
300000

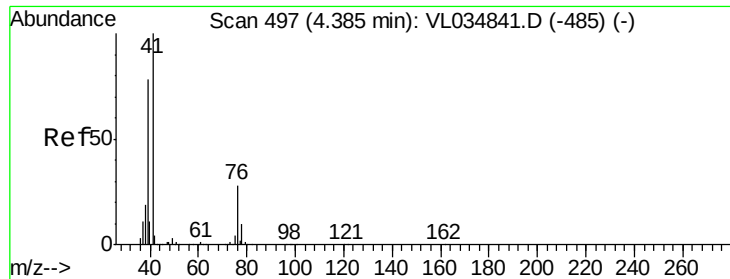
200000

100000

0

Time-->





#21

Allvl Chloride

Concen: 9.352 ppbv

RT: 4.38 min Scan# 497

Delta R.T. 0.00 min

Lab File: VL034883.D

Acq: 11 Mar 2020 9:38

Instrument :

MSVOA_L

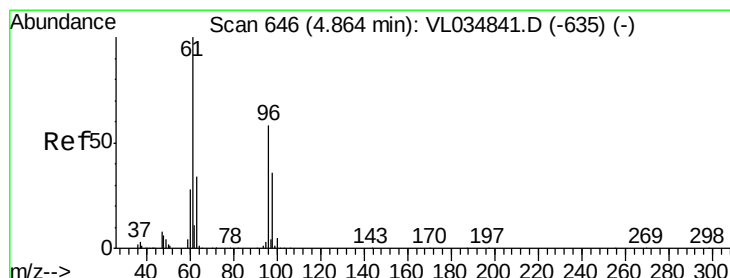
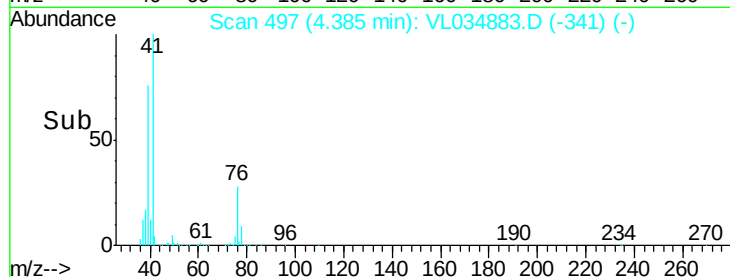
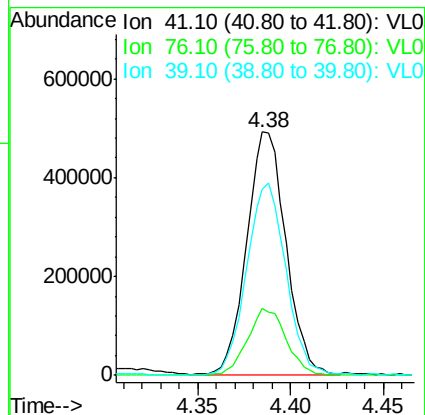
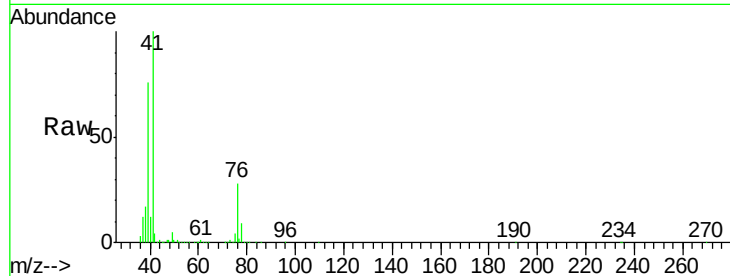
ClientSampleId :

VSTDCCC010EC

Tot Ion:	41	Resp:	719444
Ion Ratio	Lower	Upper	
41	100		
76	27.5	22.2	33.2
39	80.5	62.6	93.8

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 9.823 ppbv

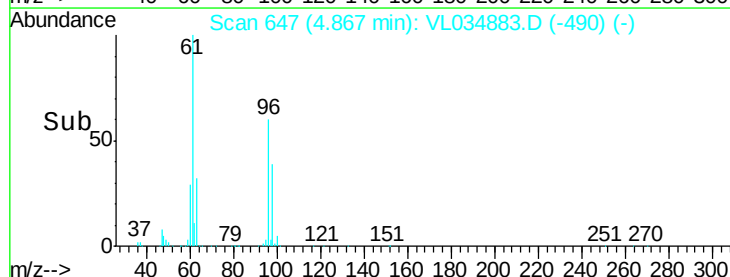
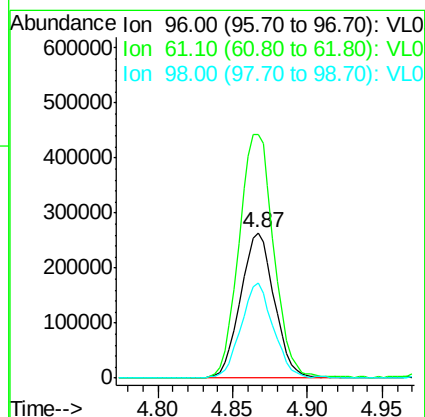
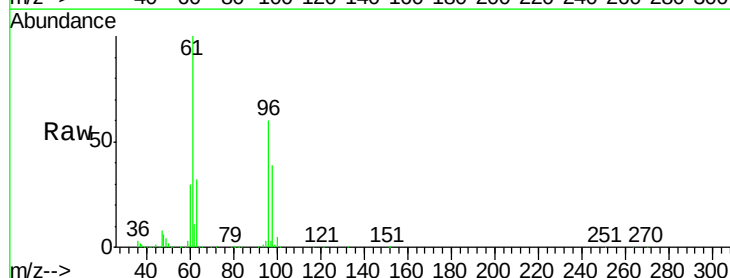
RT: 4.87 min Scan# 647

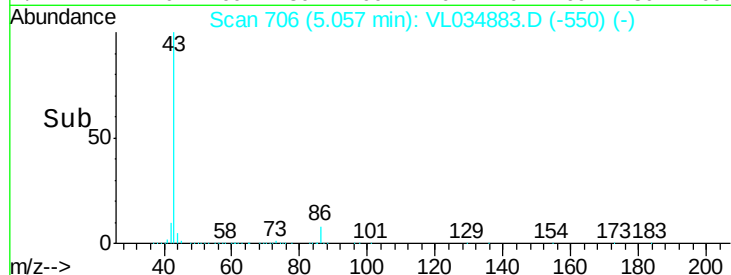
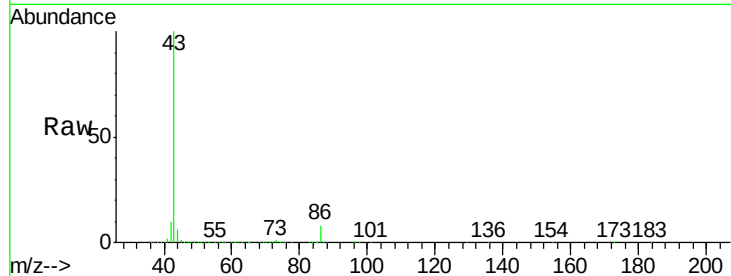
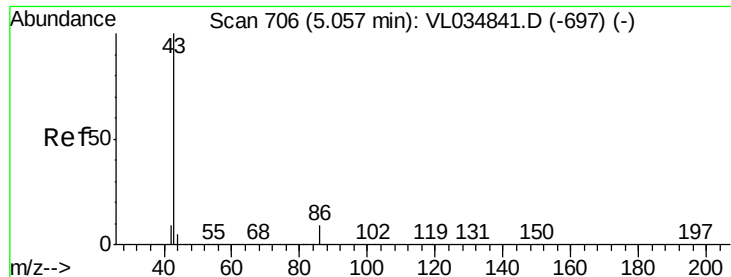
Delta R.T. 0.00 min

Lab File: VL034883.D

Acq: 11 Mar 2020 9:38

Tgt Ion:	96	Resp:	415863
Ion Ratio	Lower	Upper	
96	100		
61	167.2	139.0	208.6
98	65.2	50.3	75.5





#23

Vinyl Acetate

Concen: 9.717 ppbv

RT: 5.06 min Scan# 706

Delta R.T. 0.00 min

Lab File: VL034883.D

Acq: 11 Mar 2020 9:38

Tot Ion: 43 Resp: 1719218

Ion Ratio Lower Upper

43 100

86 7.6 6.3 9.5

42 10.4 7.8 11.8

44 5.9 4.0 6.0

Instrument :

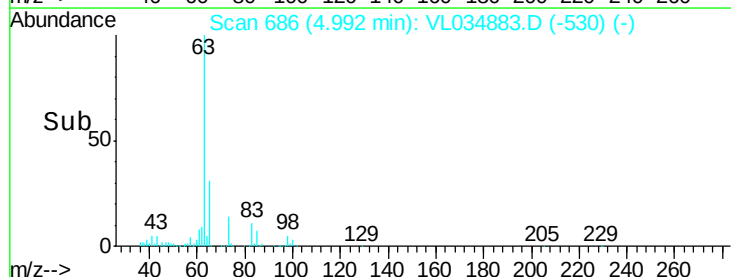
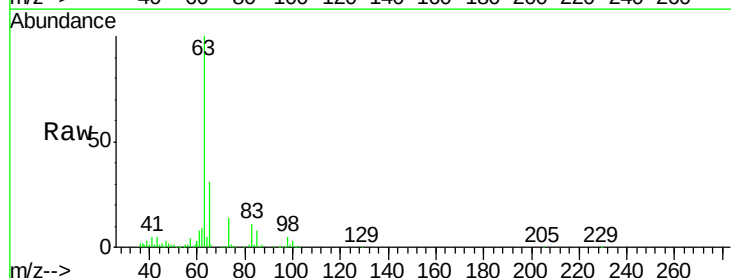
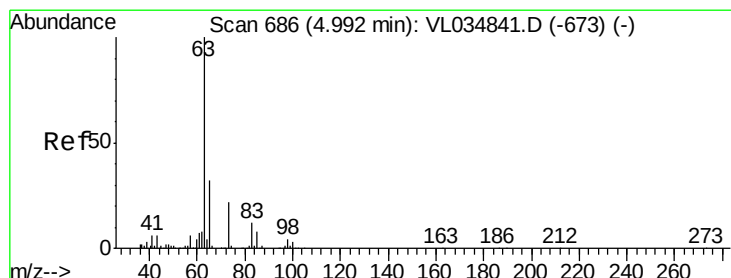
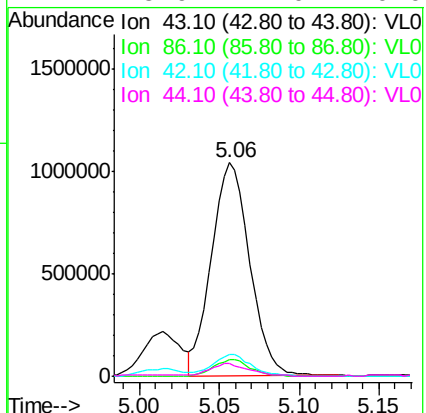
MSVOA_L

ClientSampleId :

VSTDCCC010EC

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#24

1,1-Dichloroethane

Concen: 9.507 ppbv

RT: 4.99 min Scan# 686

Delta R.T. 0.00 min

Lab File: VL034883.D

Acq: 11 Mar 2020 9:38

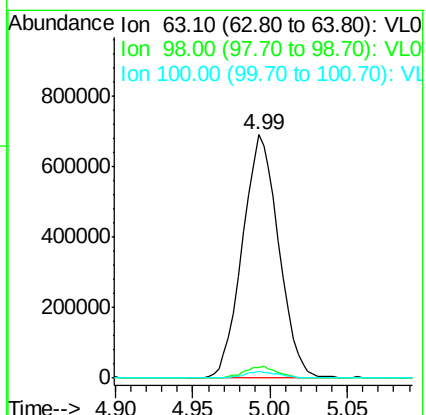
Tgt Ion: 63 Resp: 1127611

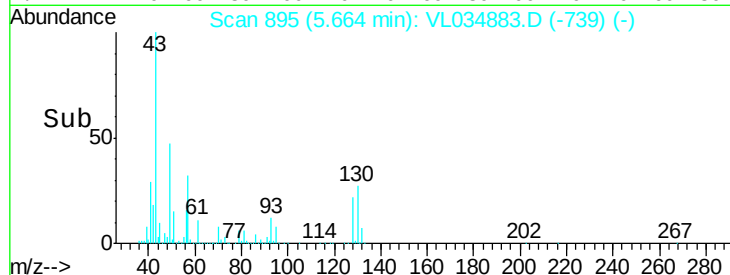
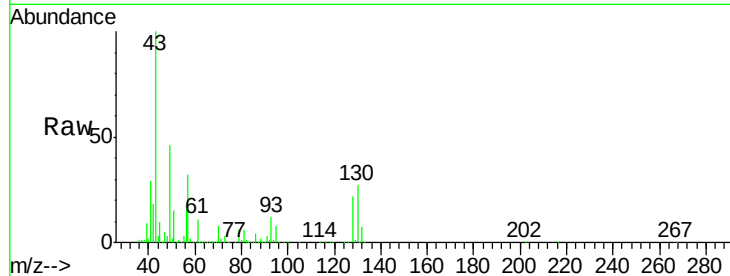
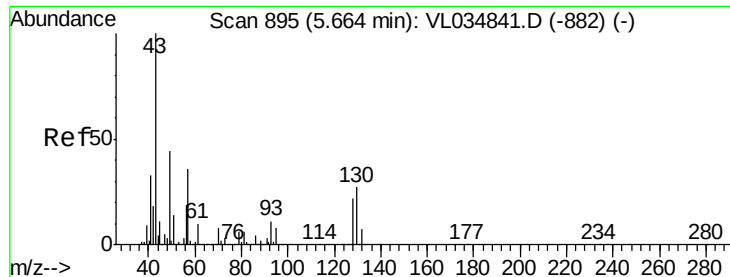
Ion Ratio Lower Upper

63 100

98 4.4 2.0 5.8

100 2.8 1.4 4.0





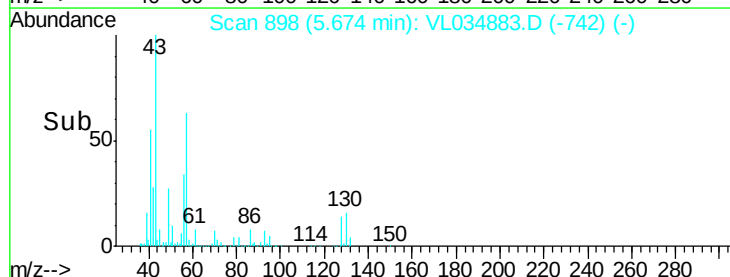
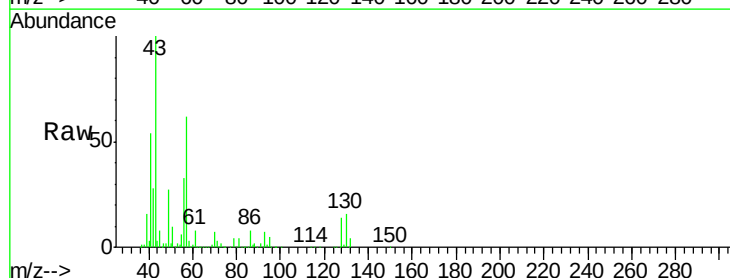
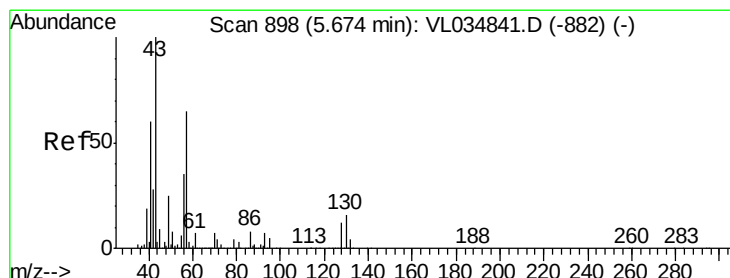
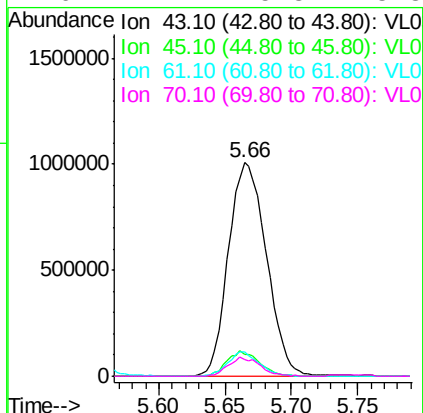
#25
Ethyl Acetate
Concen: 9.401 ppbv
RT: 5.66 min Scan# 895
Delta R.T. 0.00 min
Lab File: VL034883.D
Acq: 11 Mar 2020 9:38

Tot Ion	43	Resp	2006120
Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.2	12.2
61	9.6	7.8	11.6
70	7.4	5.8	8.8

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

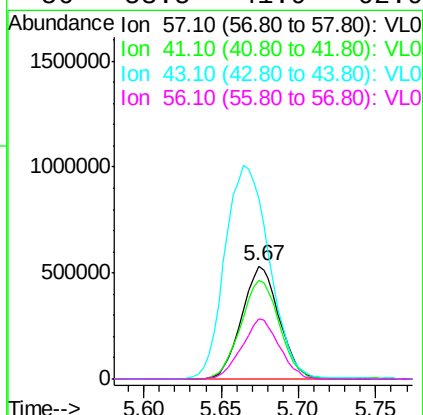
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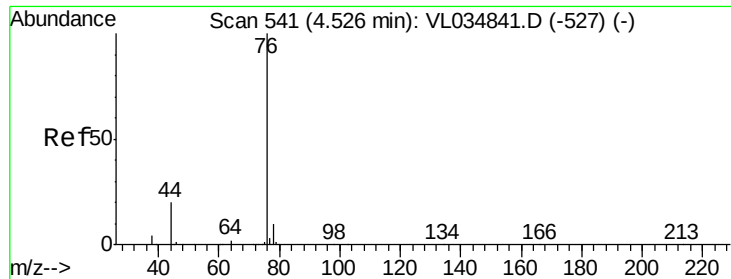
sam
3/16/2020 9:13:43 AM



#26
Hexane
Concen: 9.737 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.00 min
Lab File: VL034883.D
Acq: 11 Mar 2020 9:38

Tgt Ion	57	Resp	894717
Ion	Ratio	Lower	Upper
57	100		
41	90.1	72.6	109.0
43	225.7	183.8	275.6
56	53.5	41.9	62.9





#27

Carbon Disulfide

Concen: 9.490 ppbv

RT: 4.53 min Scan# 541

Delta R.T. 0.00 min

Lab File: VL034883.D

Acq: 11 Mar 2020 9:38

Instrument :

MSVOA_L

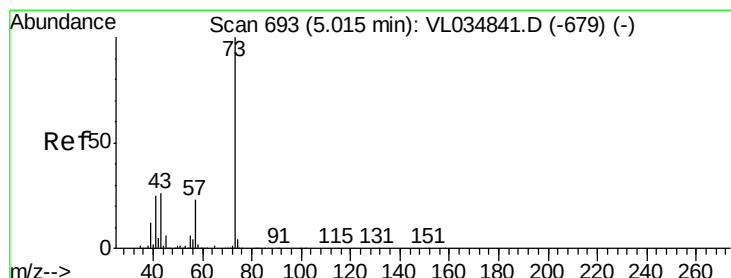
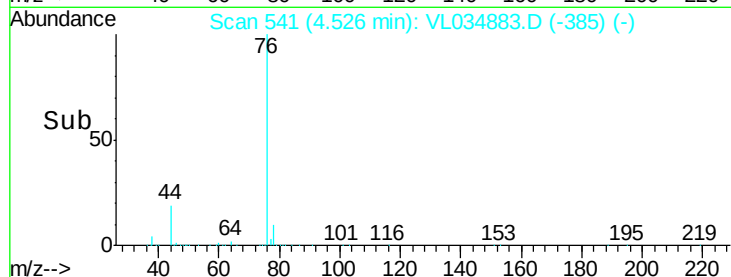
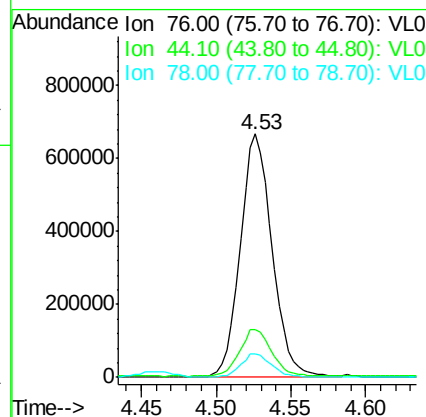
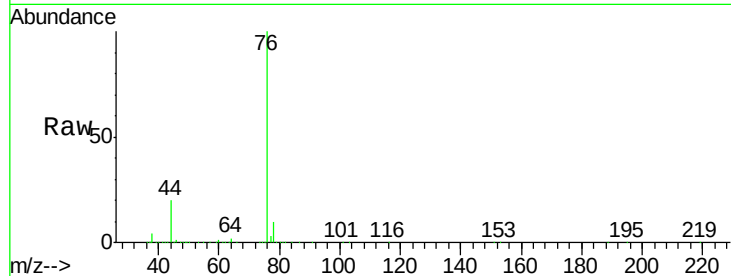
ClientSampleId :

VSTDCCC010EC

Tot Ion:	76	Resp:	989603
Ion Ratio	Lower	Upper	
76	100		
44	19.2	16.2	24.2
78	9.5	7.8	11.6

Manual Integrations
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sam
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#28

Methyl tert-Butyl Ether

Concen: 9.064 ppbv

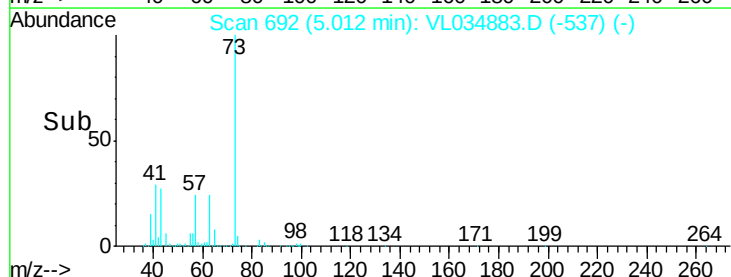
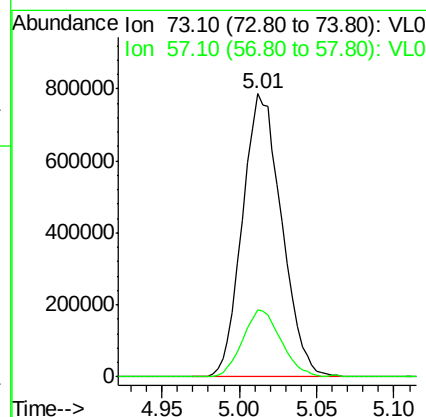
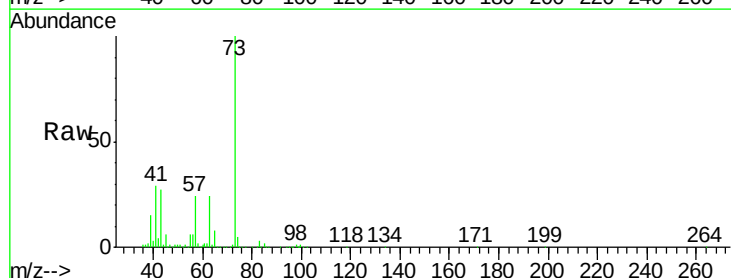
RT: 5.01 min Scan# 692

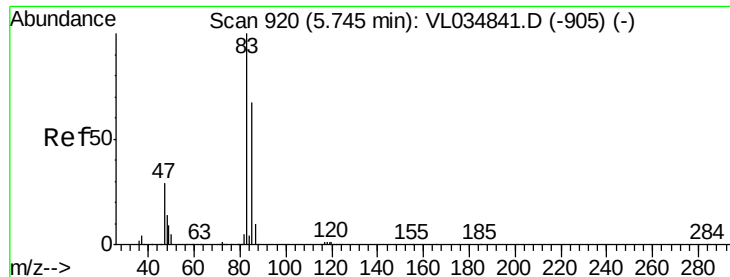
Delta R.T. -0.00 min

Lab File: VL034883.D

Acq: 11 Mar 2020 9:38

Tgt Ion:	73	Resp:	1385773
Ion Ratio	Lower	Upper	
73	100		
57	23.5	18.3	27.5





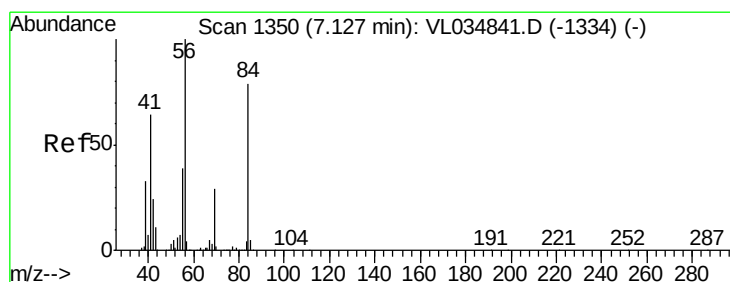
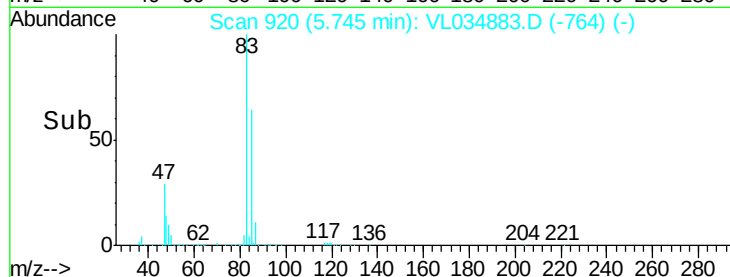
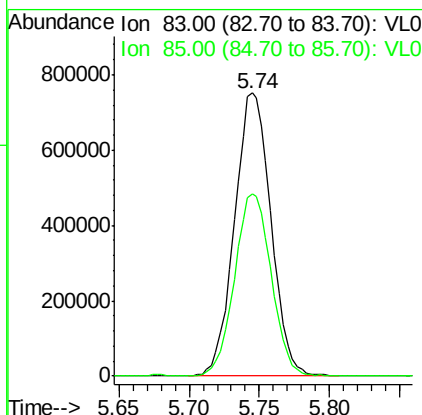
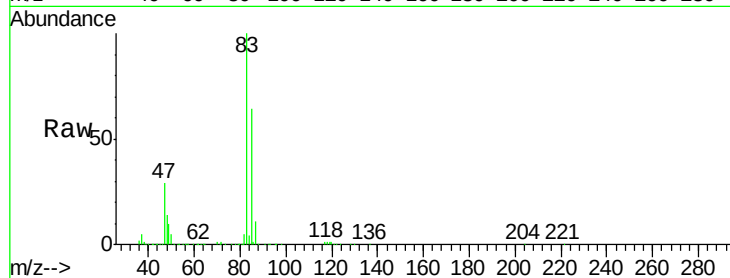
#29
Chloroform
Concen: 9.668 ppbv
RT: 5.74 min Scan# 920
Delta R.T. 0.00 min
Lab File: VL034883.D
Acq: 11 Mar 2020 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 1355434
Ion Ratio Lower Upper
83 100
85 64.2 53.8 80.6

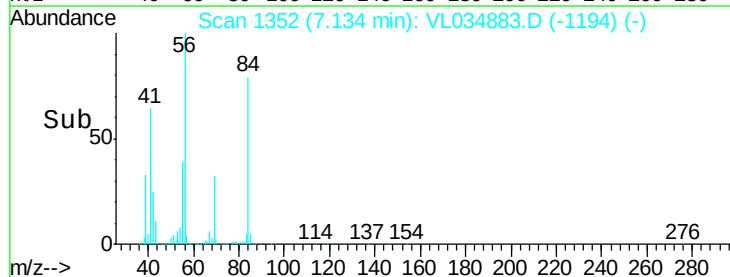
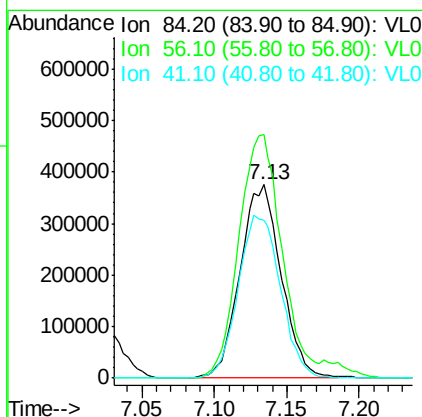
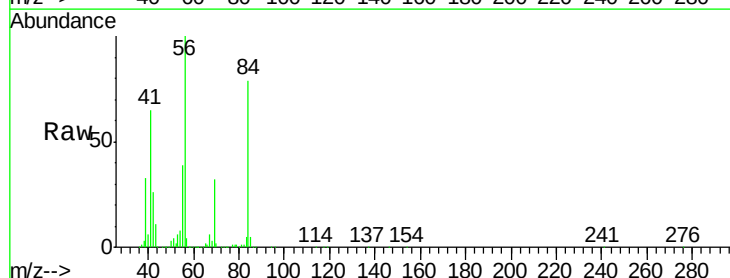
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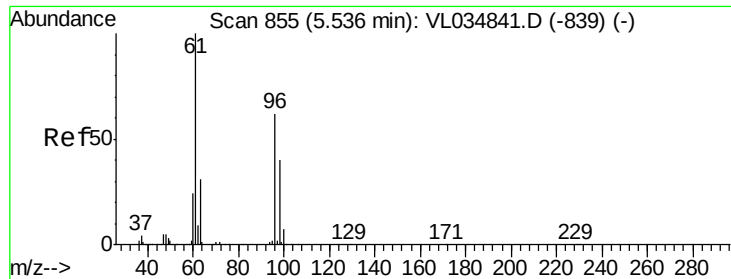
sam
3/16/2020 9:13:43 AM



#30
Cyclohexane
Concen: 9.642 ppbv
RT: 7.13 min Scan# 1352
Delta R.T. 0.01 min
Lab File: VL034883.D
Acq: 11 Mar 2020 9:38

Tgt Ion: 84 Resp: 739247
Ion Ratio Lower Upper
84 100
56 136.9 110.5 165.7
41 86.5 68.2 102.4





#31

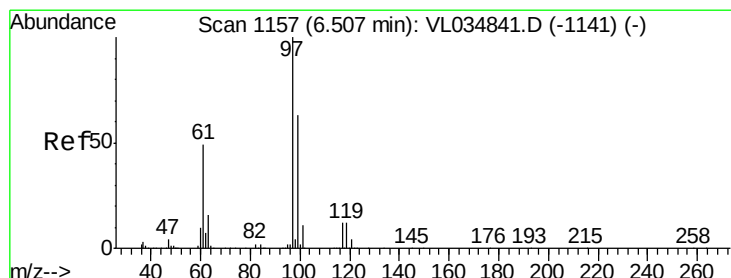
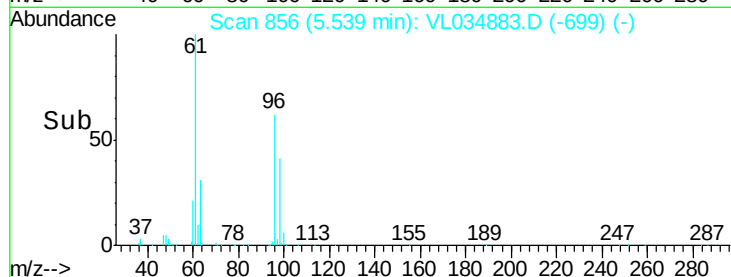
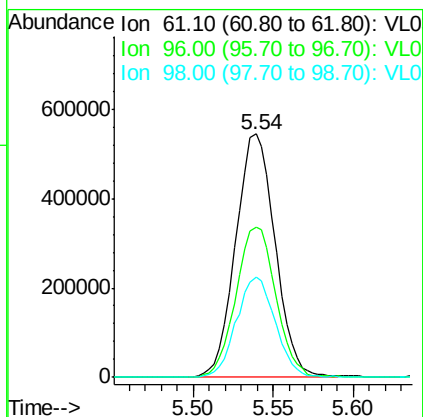
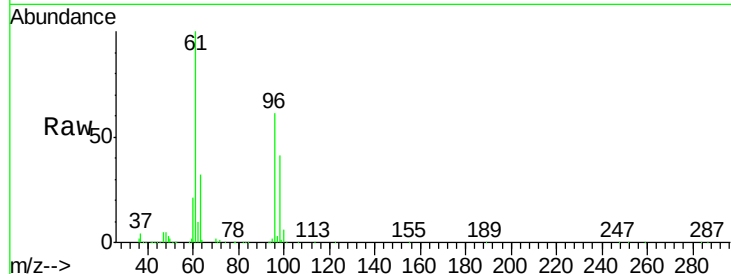
cis-1,2-Dichloroethene
 Concen: 9.725 ppbv
 RT: 5.54 min Scan# 856
 Delta R.T. 0.00 min
 Lab File: VL034883.D
 Acq: 11 Mar 2020 9:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	61.4	49.8	74.8
98	41.3	32.2	48.4

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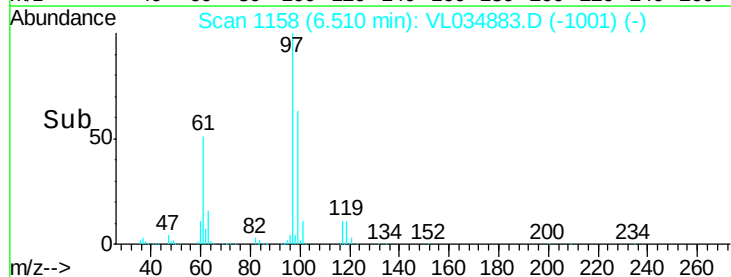
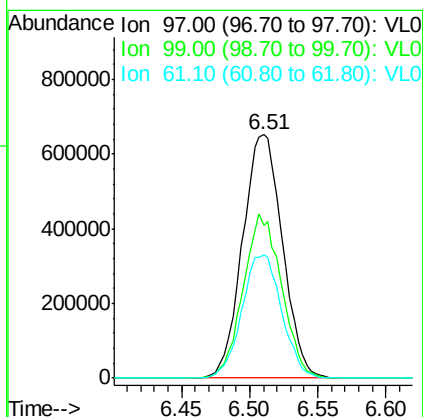
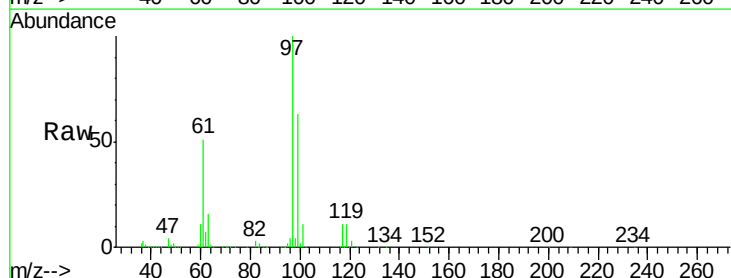
sam
 3/16/2020 9:13:43 AM

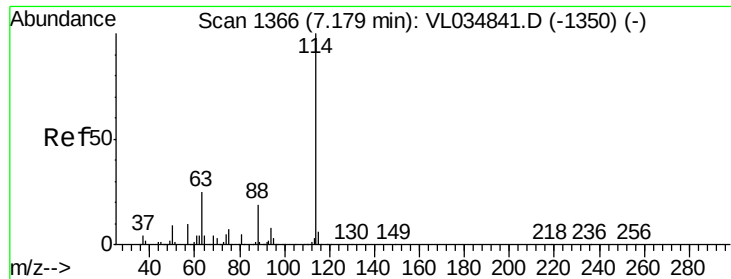


#32

1,1,1-Trichloroethane
 Concen: 9.717 ppbv
 RT: 6.51 min Scan# 1158
 Delta R.T. 0.00 min
 Lab File: VL034883.D
 Acq: 11 Mar 2020 9:38

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.1	76.7
61	50.7	39.7	59.5





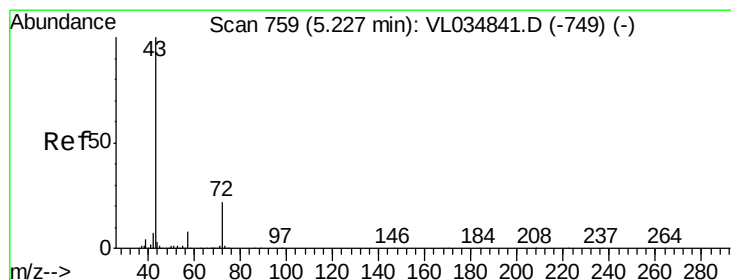
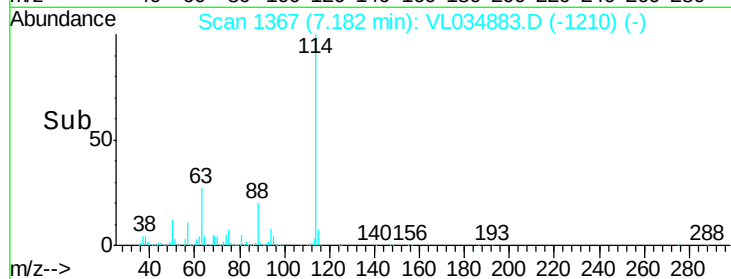
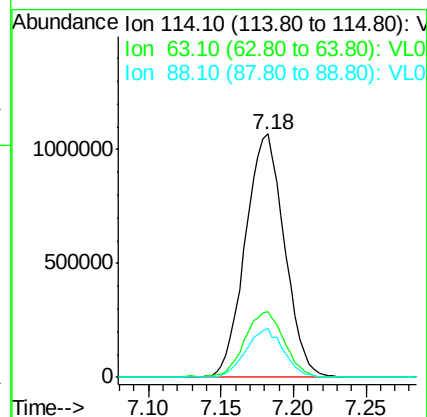
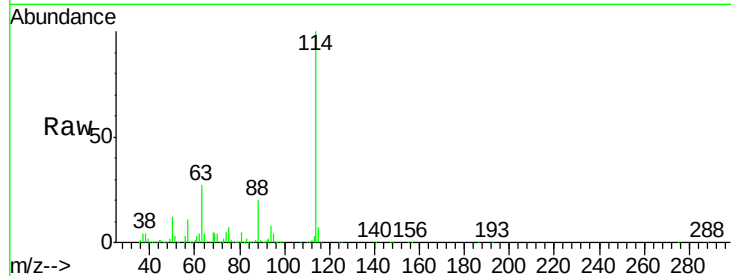
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. 0.00 min
 Lab File: VL034883.D
 Acq: 11 Mar 2020 9:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.7	20.6	31.0
88	19.3	15.0	22.6

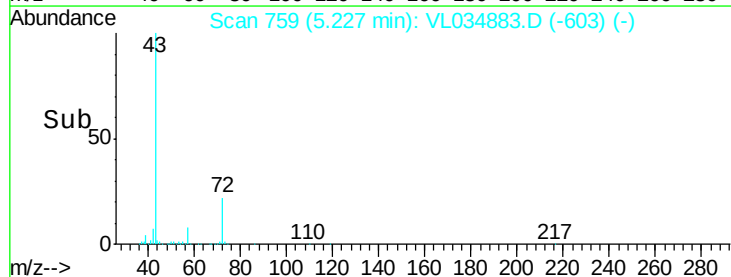
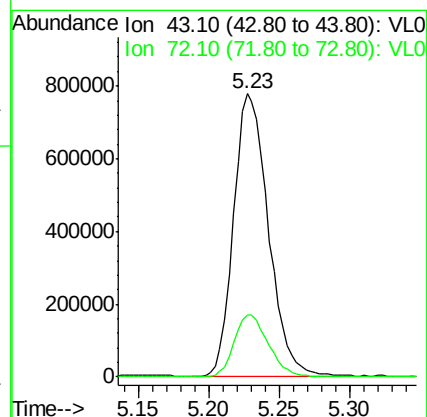
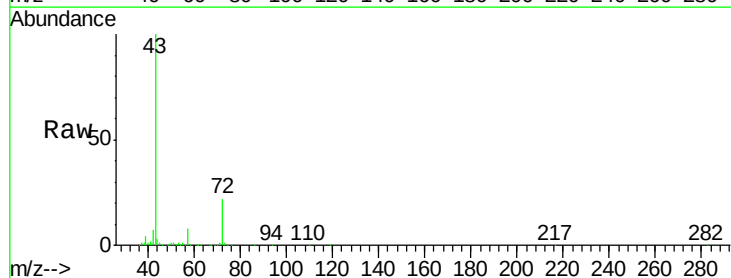
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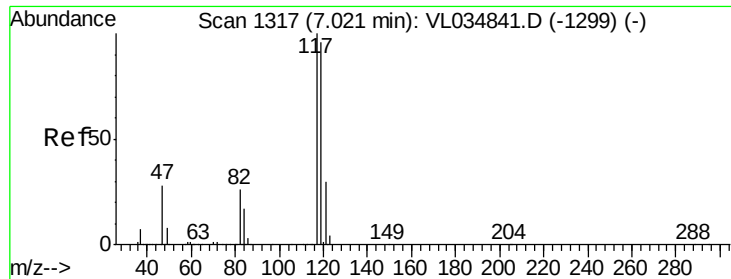
sam
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#34
 2-Butanone
 Concen: 10.050 ppbv
 RT: 5.23 min Scan# 759
 Delta R.T. 0.00 min
 Lab File: VL034883.D
 Acq: 11 Mar 2020 9:38

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.9	17.6	26.4





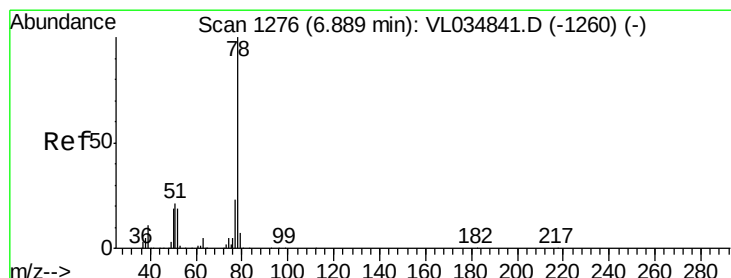
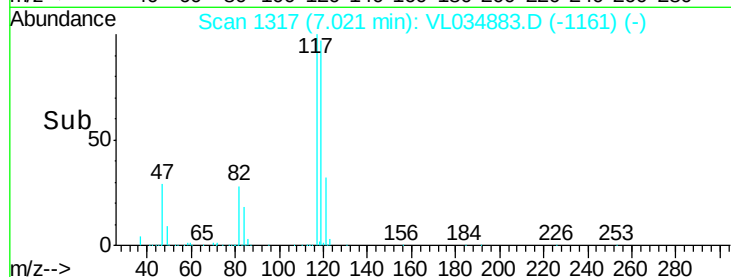
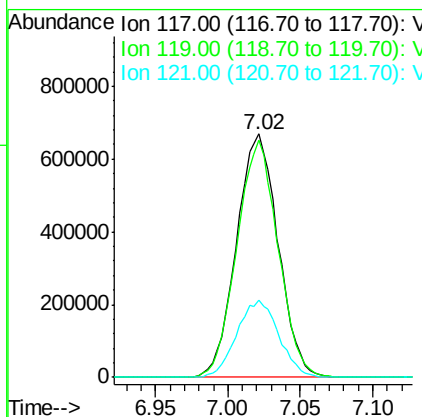
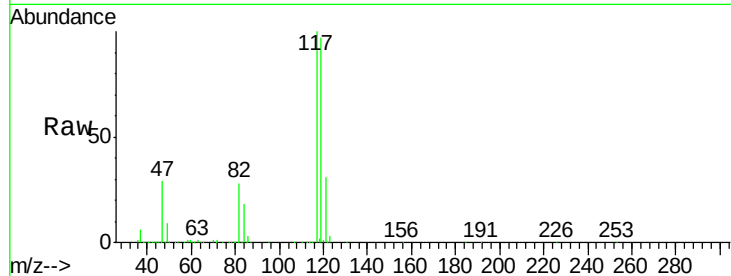
#35
Carbon Tetrachloride
Concen: 10.678 ppbv
RT: 7.02 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VL034883.D
Acq: 11 Mar 2020 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
119	97.2	77.0	115.4
121	31.5	24.0	36.0

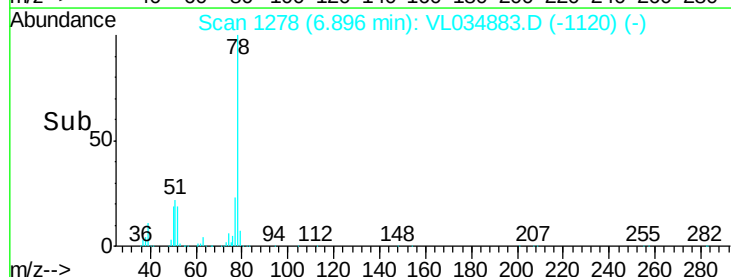
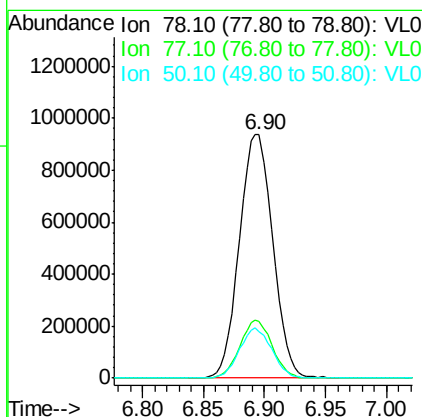
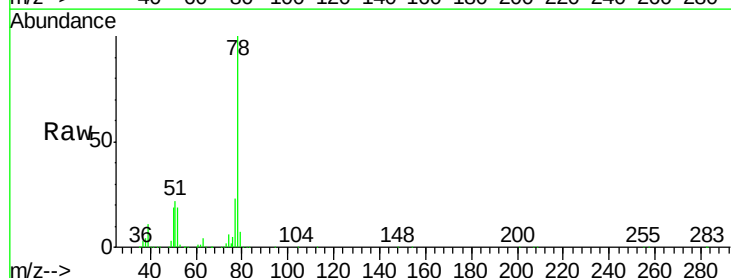
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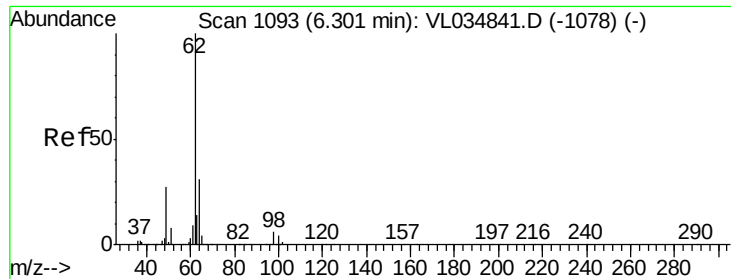
sam
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#36
Benzene
Concen: 9.883 ppbv
RT: 6.90 min Scan# 1278
Delta R.T. 0.01 min
Lab File: VL034883.D
Acq: 11 Mar 2020 9:38

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.2	27.2
50	18.9	15.2	22.8





#37

1,2-Dichloroethane

Concen: 10.425 ppbv

RT: 6.30 min Scan# 1094

Delta R.T. 0.00 min

Lab File: VL034883.D

Acq: 11 Mar 2020 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 1053458

Ion Ratio Lower Upper

62 100

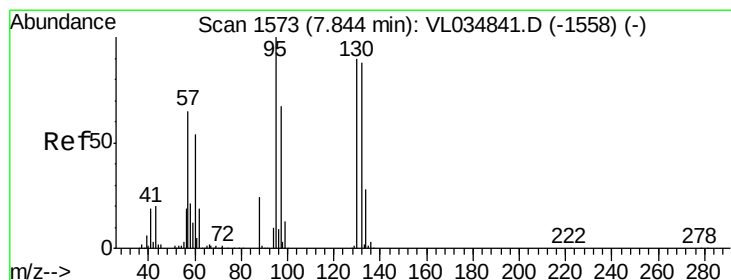
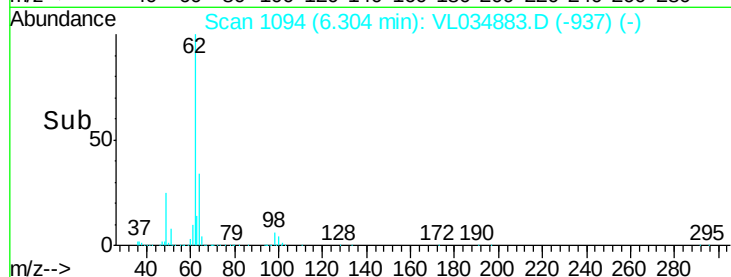
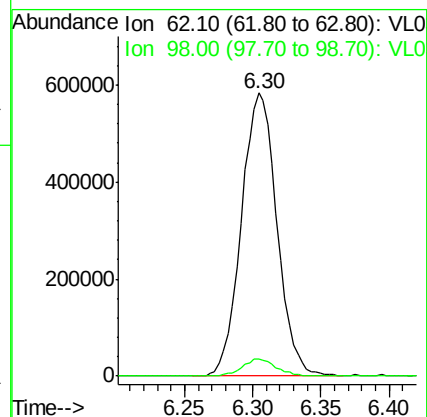
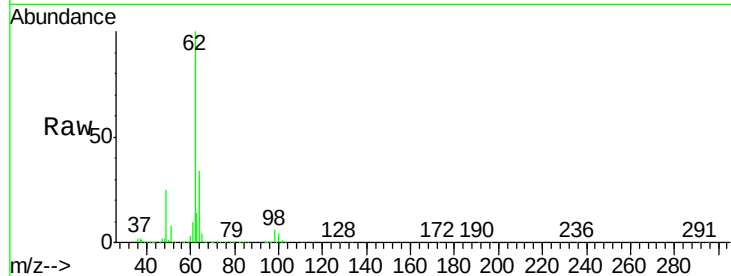
98 5.9 5.2 7.8

Manual Integrations

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#38

Trichloroethene

Concen: 9.925 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VL034883.D

Acq: 11 Mar 2020 9:38

Tgt Ion: 130 Resp: 675575

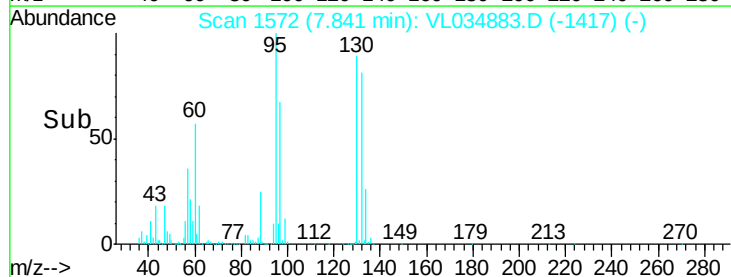
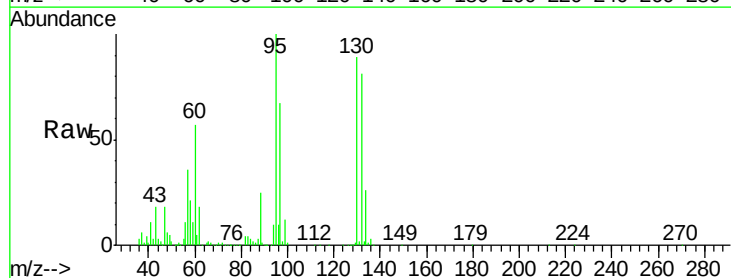
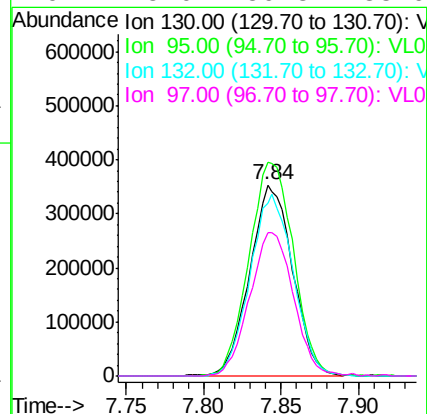
Ion Ratio Lower Upper

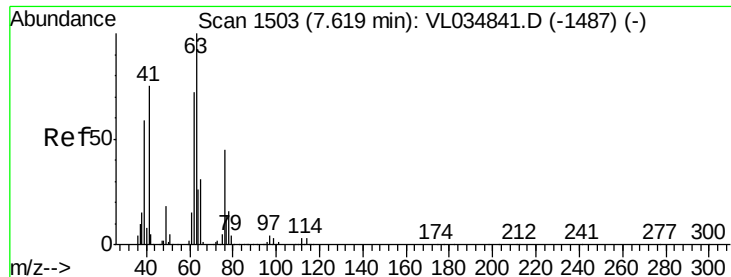
130 100

95 111.9 88.5 132.7

132 90.9 78.0 117.0

97 75.0 59.3 88.9





#39

1,2-Dichloropropane

Concen: 9.588 ppbv

RT: 7.62 min Scan# 1503

Delta R.T. 0.00 min

Lab File: VL034883.D

Acq: 11 Mar 2020 9:38

Instrument :

MSVOA_L

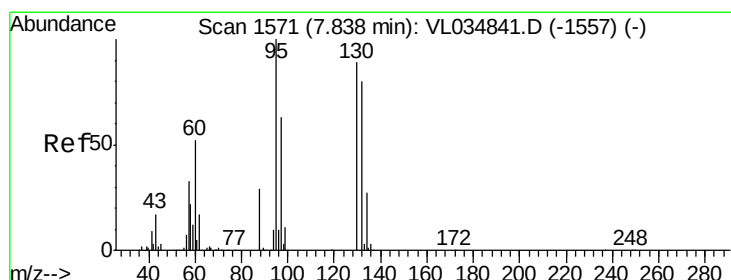
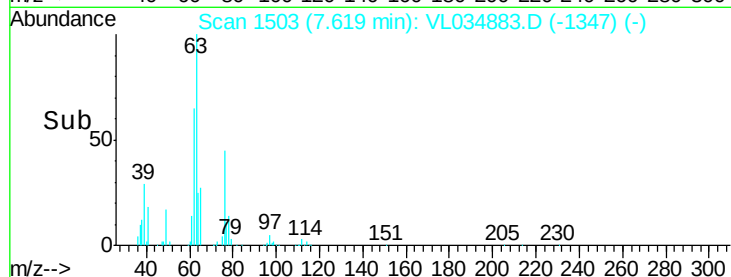
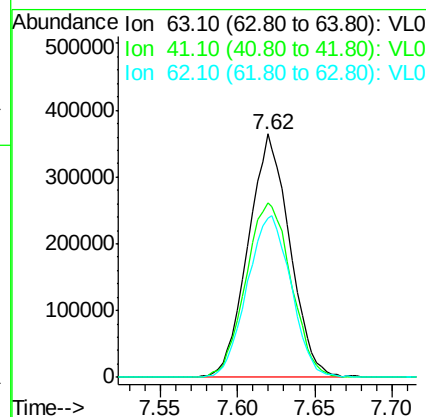
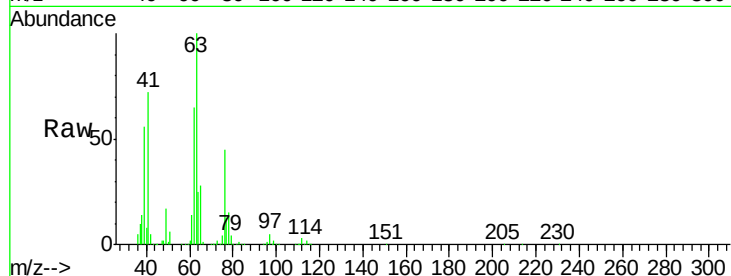
ClientSampleId :

VSTDCCC010EC

Tot Ion:	63	Resp:	680774
Ion Ratio	Lower	Upper	
63	100		
41	71.8	59.8	89.8
62	65.1	57.6	86.4

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#40

1,4-Dioxane

Concen: 8.458 ppbv

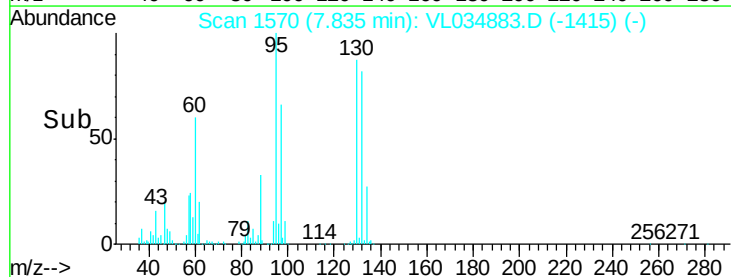
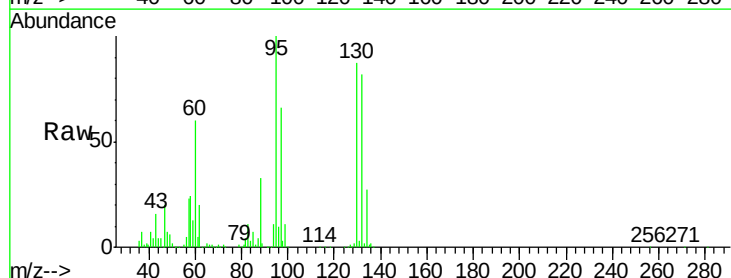
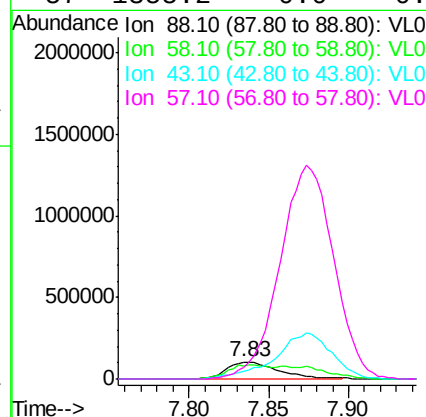
RT: 7.83 min Scan# 1570

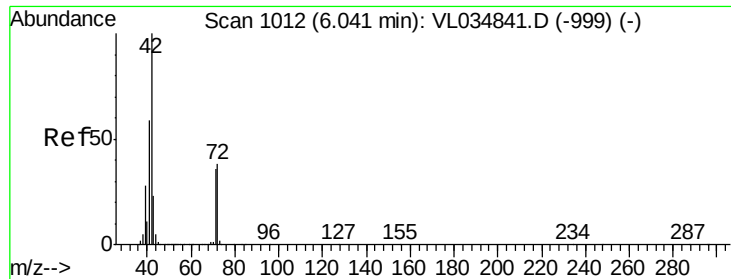
Delta R.T. -0.00 min

Lab File: VL034883.D

Acq: 11 Mar 2020 9:38

Tgt Ion:	88	Resp:	226811
Ion Ratio	Lower	Upper	
88	100		
58	143.4	103.9	155.9
43	307.7	0.0	0.0#
57	1355.2	0.0	0.0#





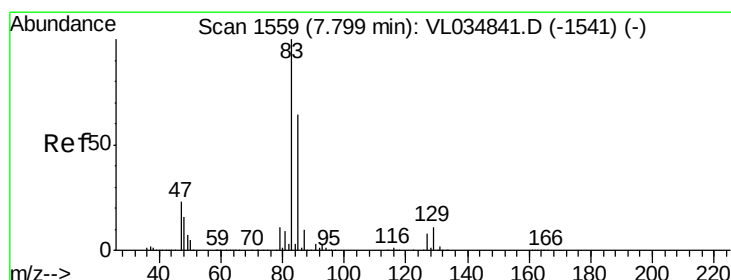
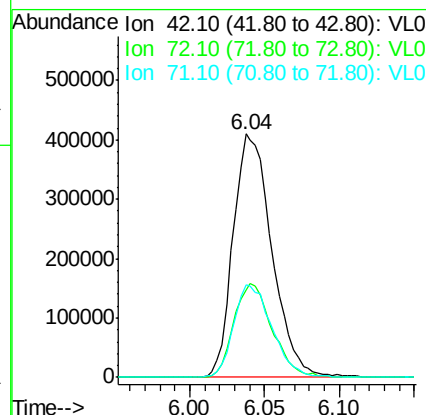
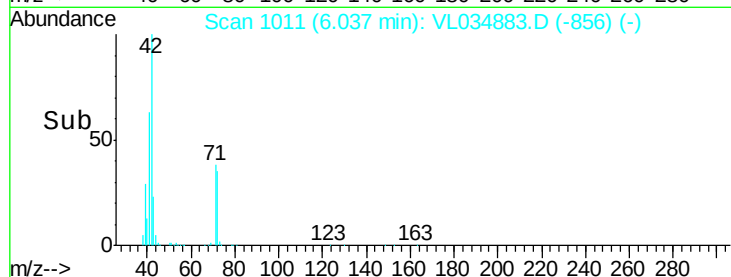
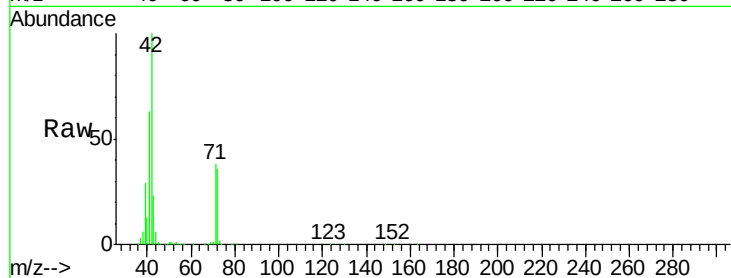
#41
Tetrahydrofuran
Concen: 10.227 ppbv
RT: 6.04 min Scan# 1011
Delta R.T. -0.00 min
Lab File: VL034883.D
Acq: 11 Mar 2020 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.3	30.8	46.2
71	37.7	30.1	45.1

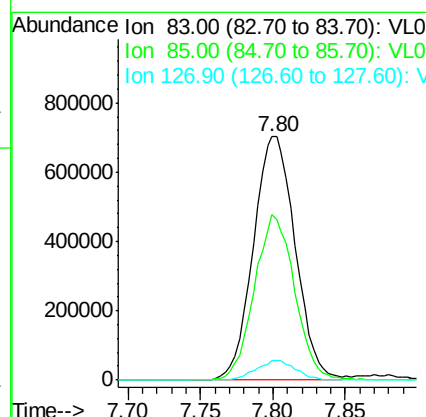
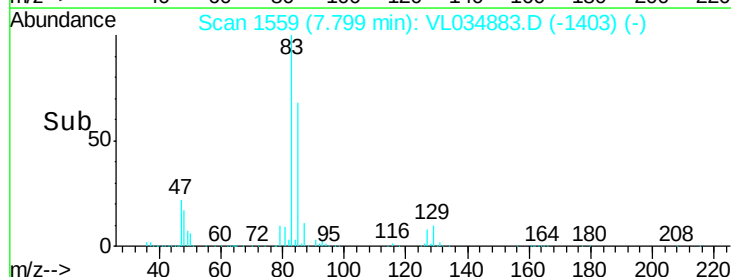
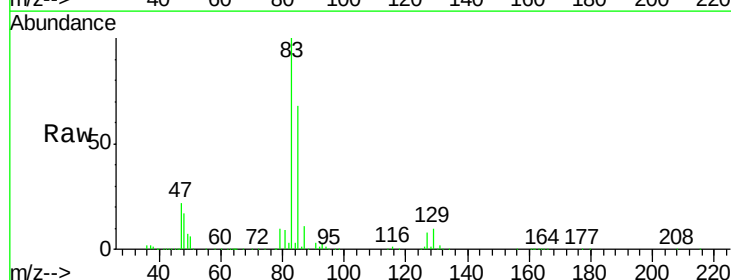
Manual Integrations
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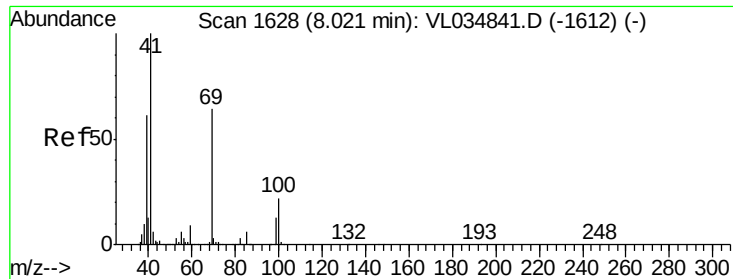
sam
3/16/2020 9:13:43 AM



#42
Bromodichloromethane
Concen: 10.247 ppbv
RT: 7.80 min Scan# 1559
Delta R.T. 0.00 min
Lab File: VL034883.D
Acq: 11 Mar 2020 9:38

Tgt Ion	Ratio	Lower	Upper
83	100		
85	68.1	51.4	77.2
127	8.2	6.2	9.4





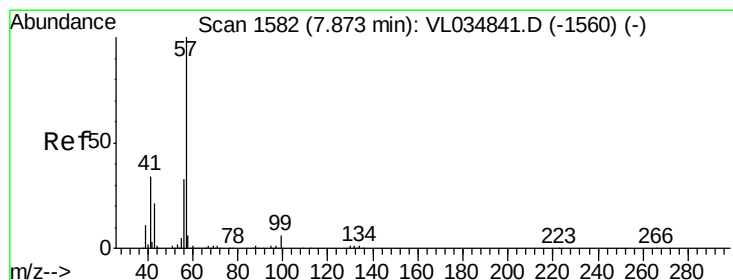
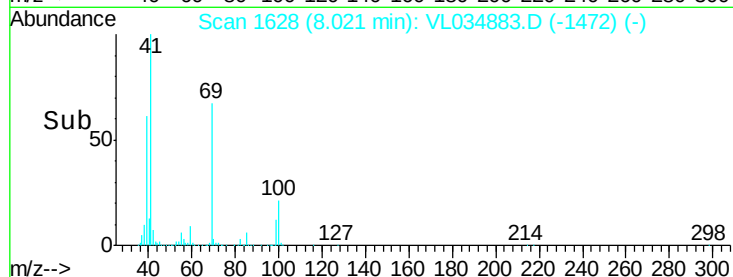
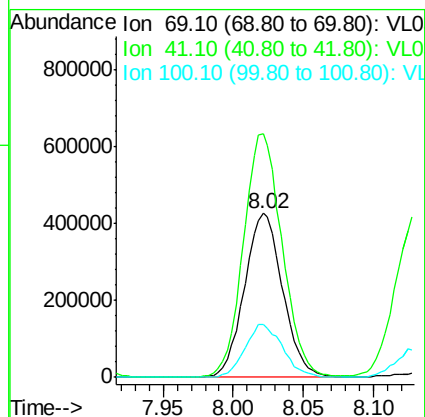
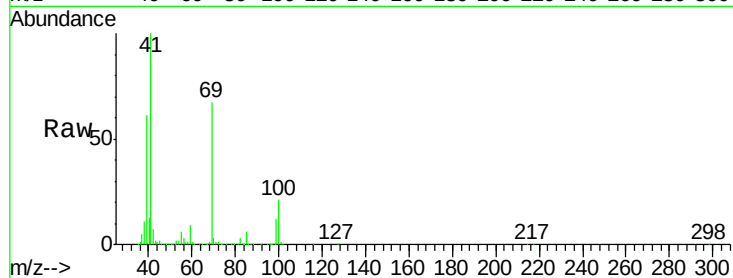
#43
Methyl Methacrylate
Concen: 10.750 ppbv
RT: 8.02 min Scan# 1628
Delta R.T. 0.00 min
Lab File: VL034883.D
Acq: 11 Mar 2020 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	150.4	123.2	184.8	
100	31.9	26.9	40.3	

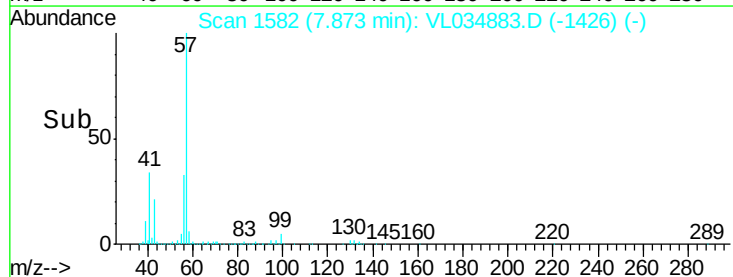
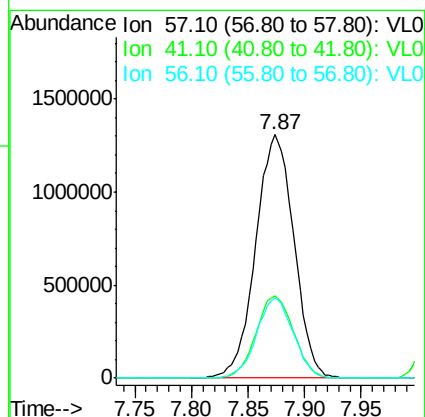
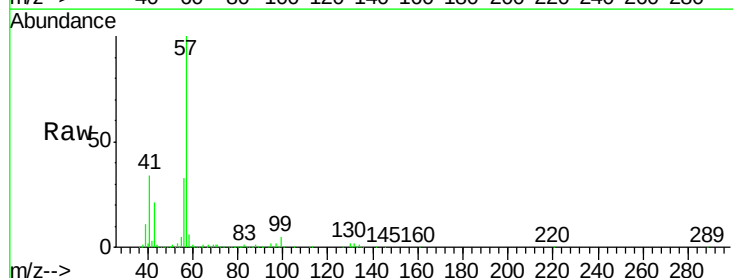
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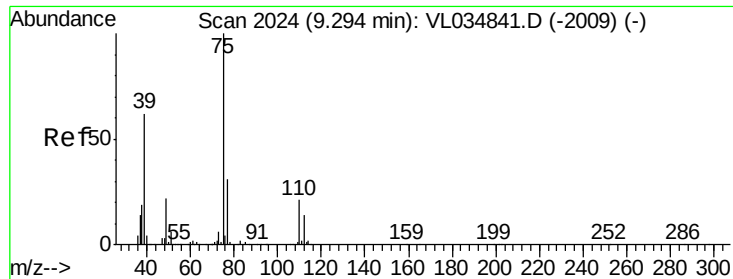
sam
3/16/2020 9:13:43 AM



#44
2,2,4-Trimethylpentane
Concen: 10.134 ppbv
RT: 7.87 min Scan# 1582
Delta R.T. 0.00 min
Lab File: VL034883.D
Acq: 11 Mar 2020 9:38

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	33.2	26.2	39.4	
56	31.6	25.0	37.4	





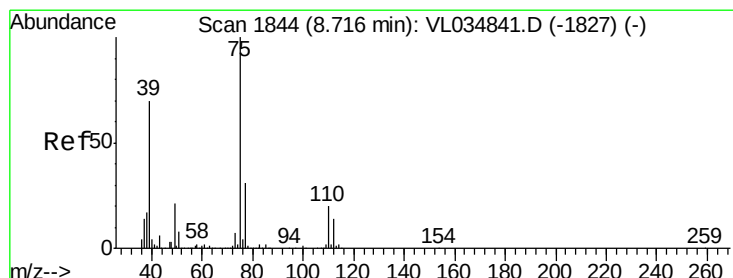
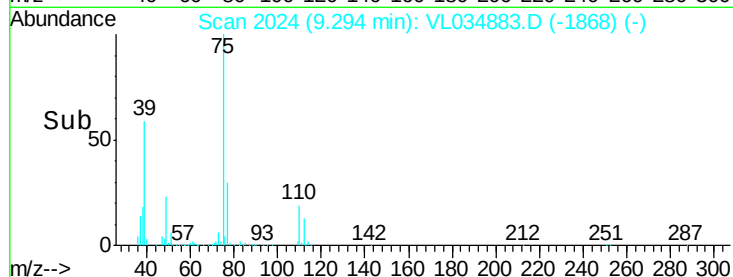
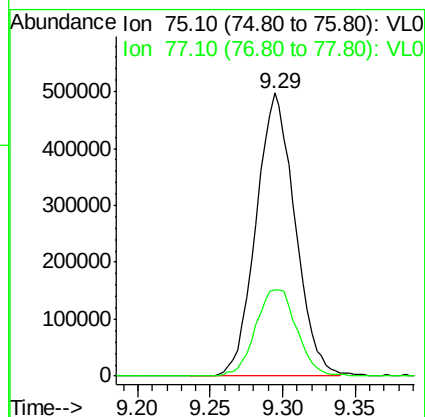
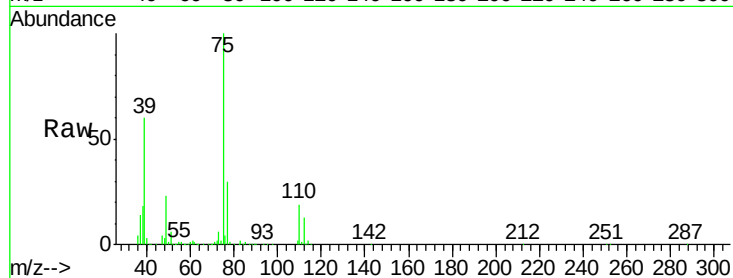
#45
t-1,3-Dichloropropene
Concen: 10.485 ppbv
RT: 9.29 min Scan# 2024
Delta R.T. 0.00 min
Lab File: VL034883.D
Acq: 11 Mar 2020 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 75 Resp: 930081
Ion Ratio Lower Upper
75 100
77 30.4 24.6 37.0

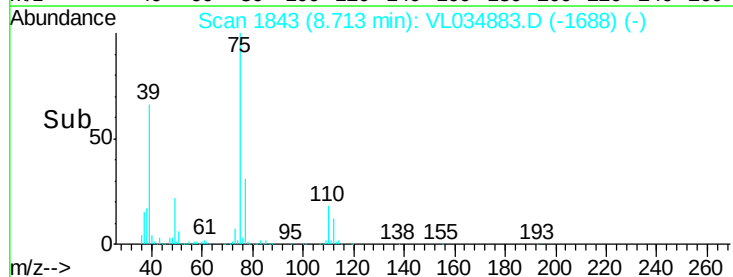
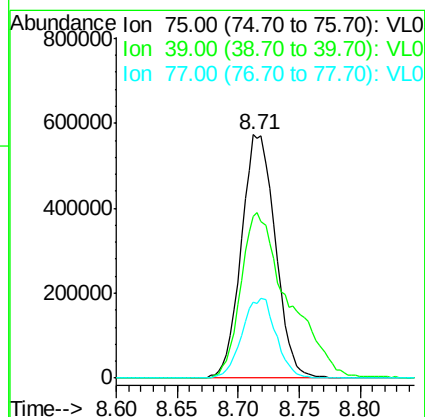
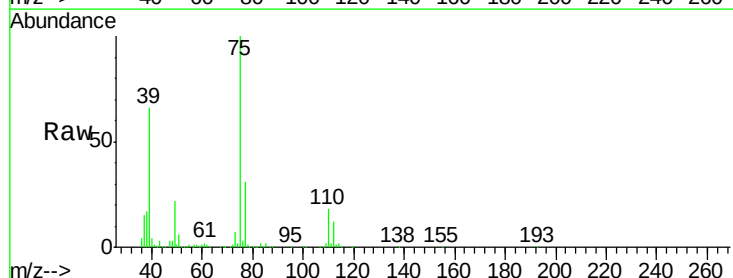
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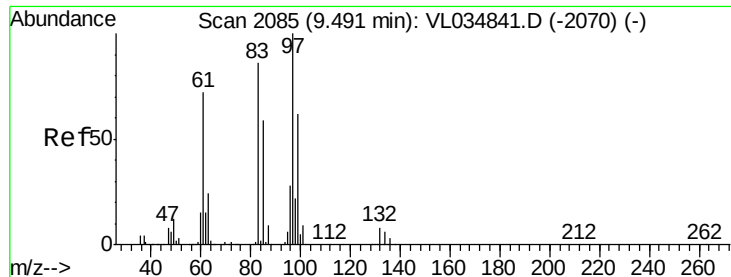
sam
3/16/2020 9:13:43 AM



#46
cis-1,3-Dichloropropene
Concen: 10.433 ppbv
RT: 8.71 min Scan# 1843
Delta R.T. -0.00 min
Lab File: VL034883.D
Acq: 11 Mar 2020 9:38

Tgt Ion: 75 Resp: 1099755
Ion Ratio Lower Upper
75 100
39 66.2 55.7 83.5
77 30.9 24.7 37.1





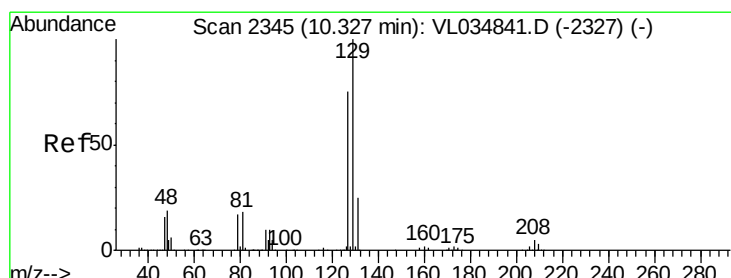
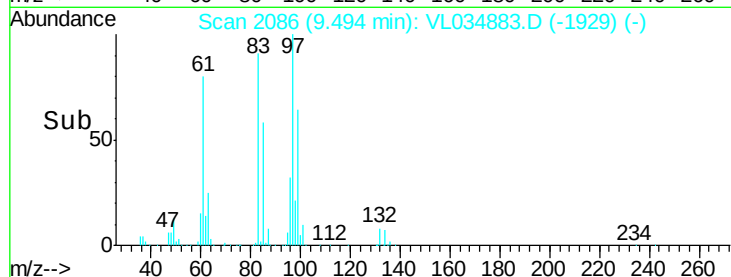
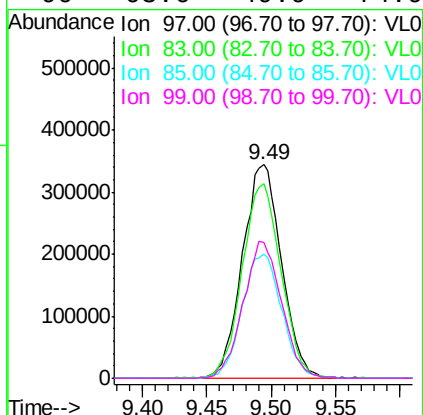
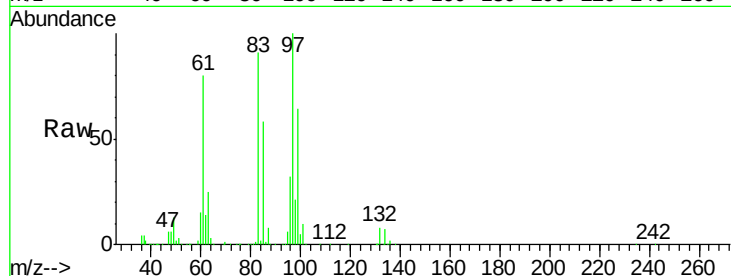
#47
 1,1,2-Trichloroethane
 Concen: 9.986 ppbv
 RT: 9.49 min Scan# 2086
 Delta R.T. 0.00 min
 Lab File: VL034883.D
 Acq: 11 Mar 2020 9:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		727655		
83	91.1	68.6	102.8		
85	58.2	46.9	70.3		
99	63.6	49.9	74.9		

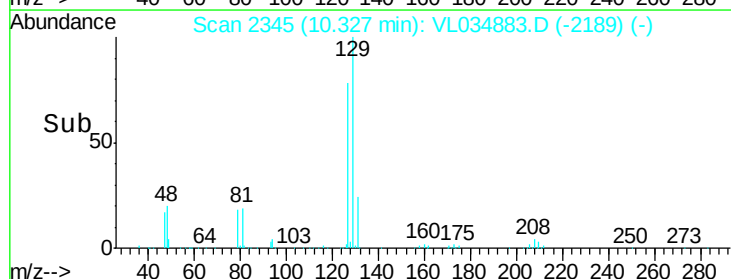
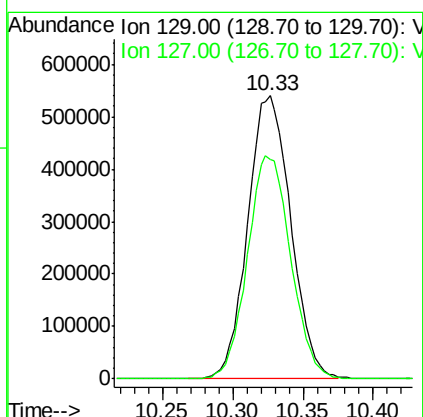
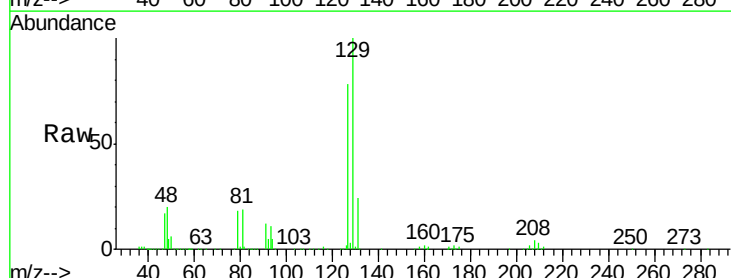
Manual Integrations
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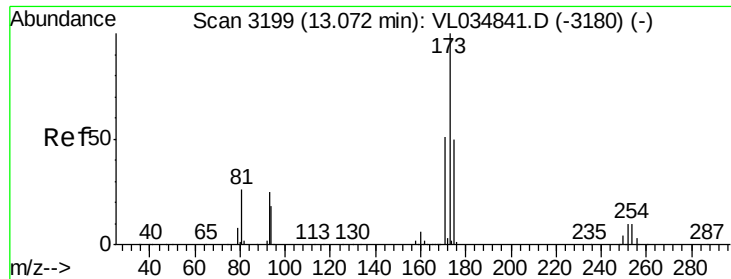
sam
 3/16/2020 9:13:43 AM



#48
 Dibromochloromethane
 Concen: 9.772 ppbv
 RT: 10.33 min Scan# 2345
 Delta R.T. 0.00 min
 Lab File: VL034883.D
 Acq: 11 Mar 2020 9:38

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		1153192		
127	79.0	39.6	118.7		





#49

Bromoform

Concen: 9.443 ppbv

RT: 13.07 min Scan# 3199

Delta R.T. 0.00 min

Lab File: VL034883.D

Acq: 11 Mar 2020 9:38

Instrument :

MSVOA_L

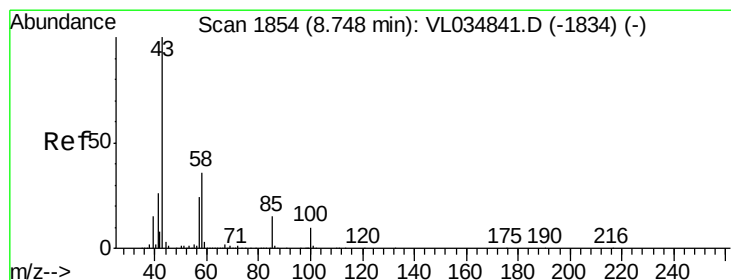
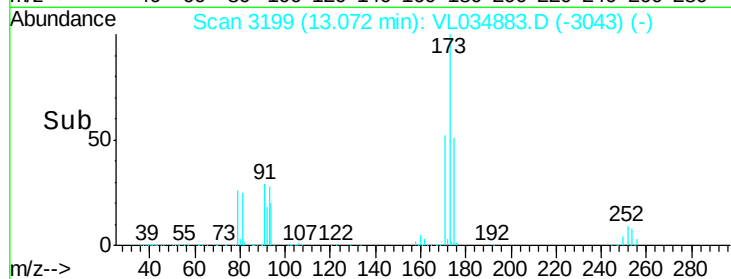
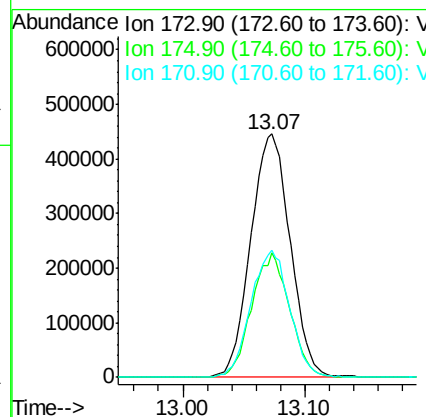
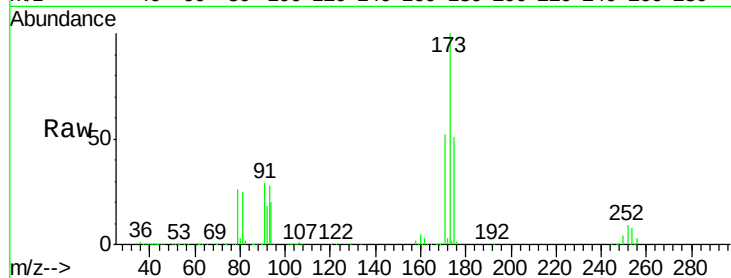
ClientSampleId :

VSTDCCC010EC

Tot Ion:	173	Resp:	993639
Ion Ratio	Lower	Upper	
173	100		
175	49.2	39.6	59.4
171	51.6	41.0	61.6

Manual Integrations
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#50

4-Methyl-2-Pentanone

Concen: 10.372 ppbv

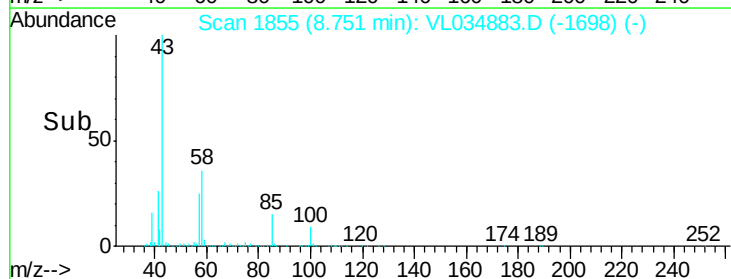
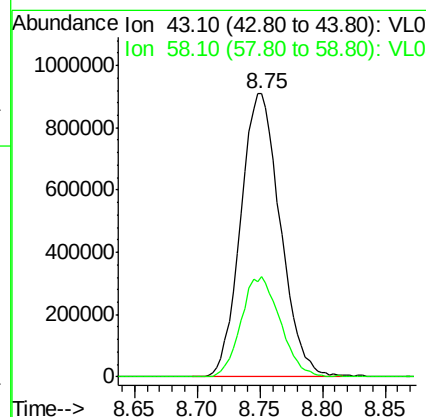
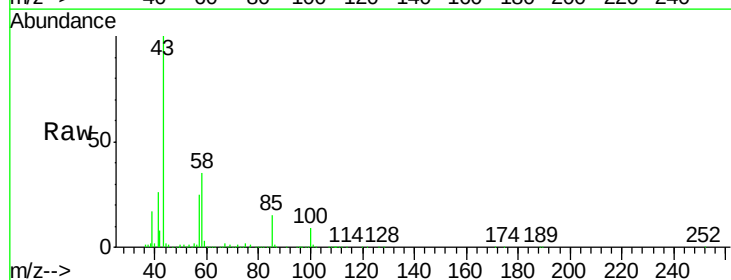
RT: 8.75 min Scan# 1855

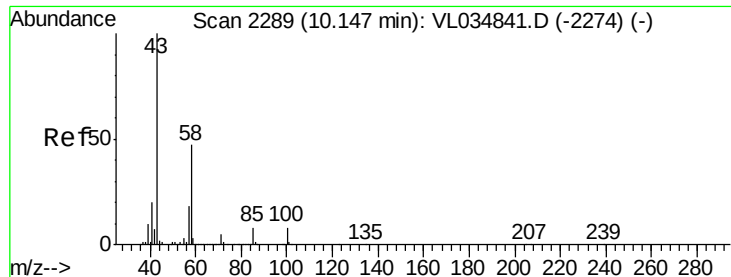
Delta R.T. 0.00 min

Lab File: VL034883.D

Acq: 11 Mar 2020 9:38

Tgt Ion:	43	Resp:	1995018
Ion Ratio	Lower	Upper	
43	100		
58	35.2	28.6	42.8





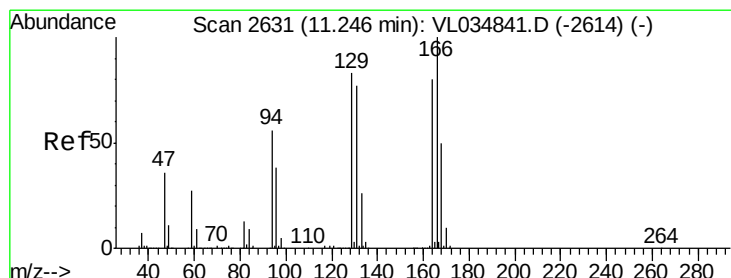
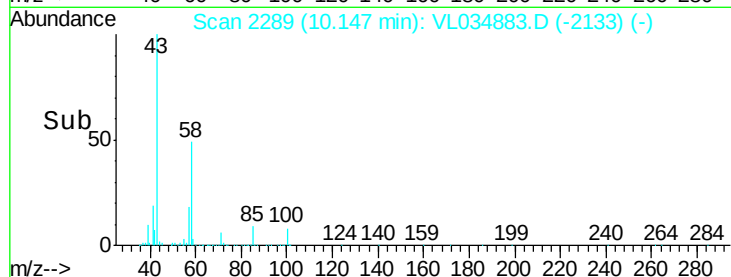
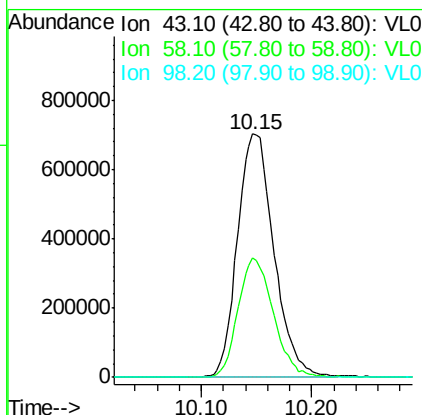
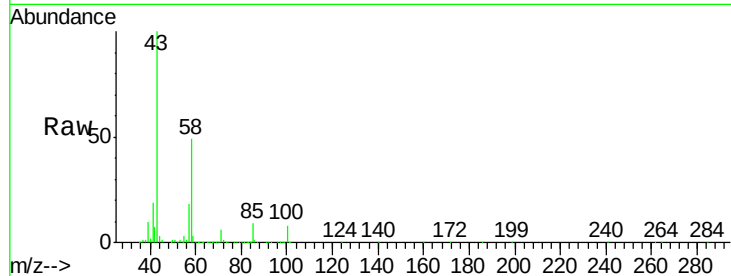
#51
2-Hexanone
Concen: 10.330 ppbv
RT: 10.15 min Scan# 2289
Delta R.T. 0.00 min
Lab File: VL034883.D
Acq: 11 Mar 2020 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1614668
Ion Ratio Lower Upper
43 100
58 47.7 38.6 58.0
98 0.3 0.1 0.1#

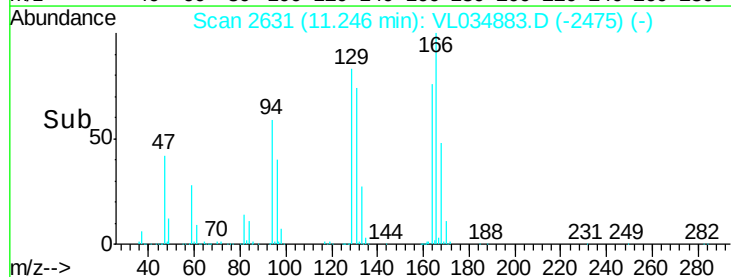
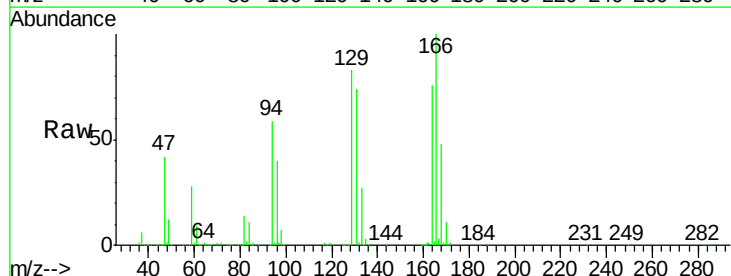
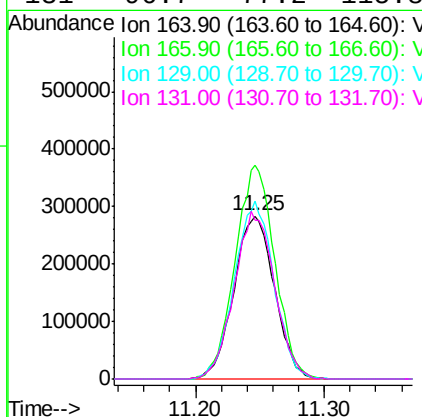
Manual Integrations
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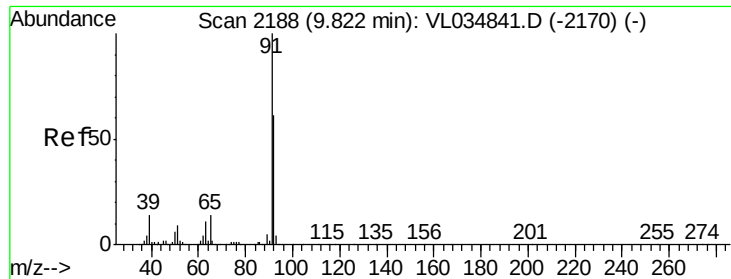
sam
3/16/2020 9:13:43 AM



#52
Tetrachloroethene
Concen: 8.729 ppbv
RT: 11.25 min Scan# 2631
Delta R.T. 0.00 min
Lab File: VL034883.D
Acq: 11 Mar 2020 9:38

Tgt Ion: 164 Resp: 618887
Ion Ratio Lower Upper
164 100
166 130.7 100.0 150.0
129 108.8 83.1 124.7
131 96.7 77.2 115.8





#53

Toluene

Concen: 9.955 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. 0.00 min

Lab File: VL034883.D

Acq: 11 Mar 2020 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2060294

Ion Ratio Lower Upper

91 100

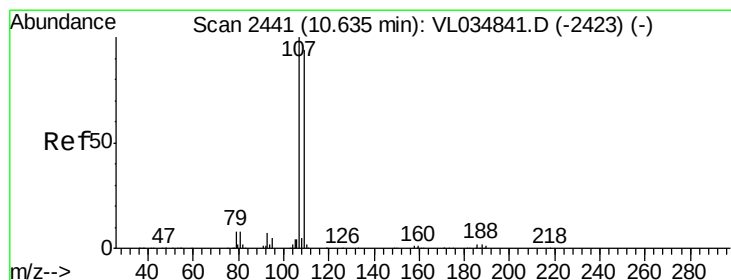
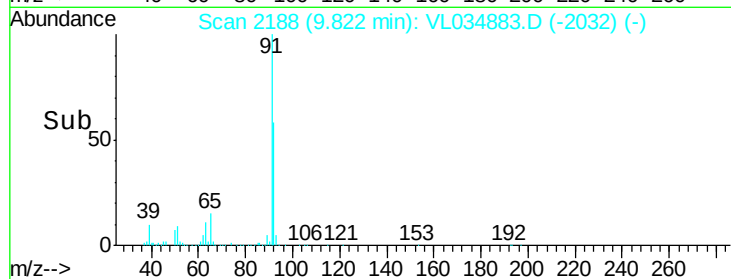
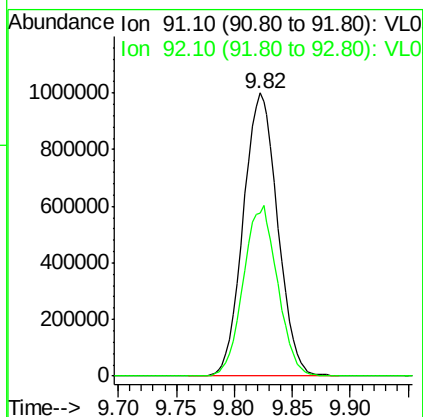
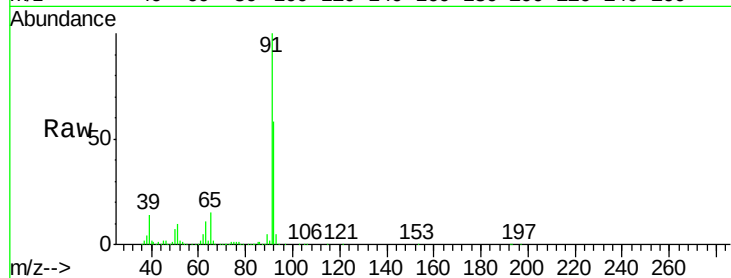
92 60.1 48.6 72.8

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 9.915 ppbv

RT: 10.64 min Scan# 2441

Delta R.T. 0.00 min

Lab File: VL034883.D

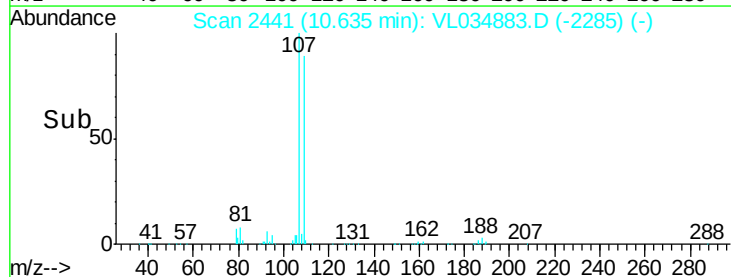
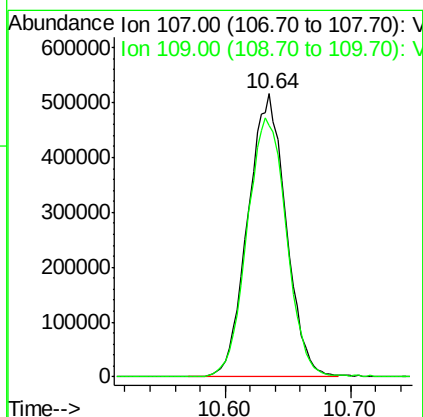
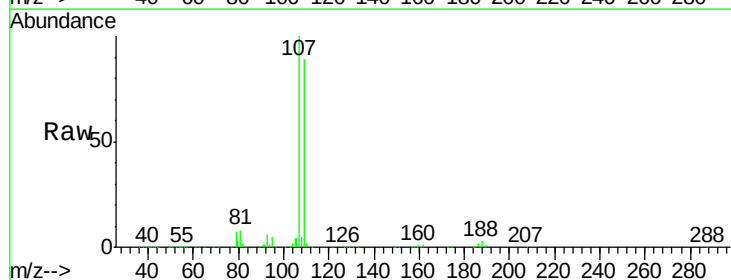
Acq: 11 Mar 2020 9:38

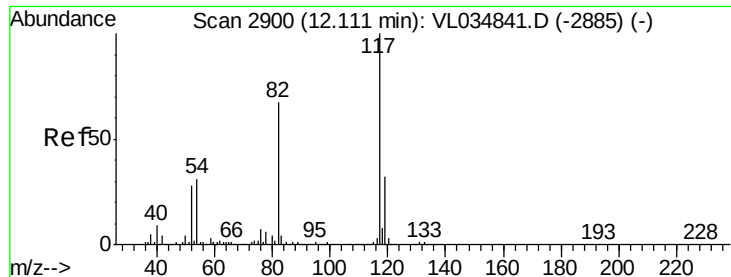
Tgt Ion: 107 Resp: 1087591

Ion Ratio Lower Upper

107 100

109 88.9 74.9 112.3





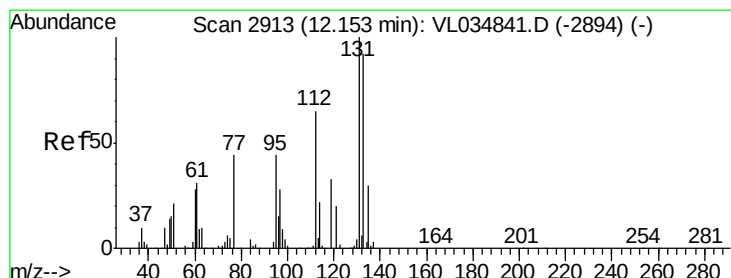
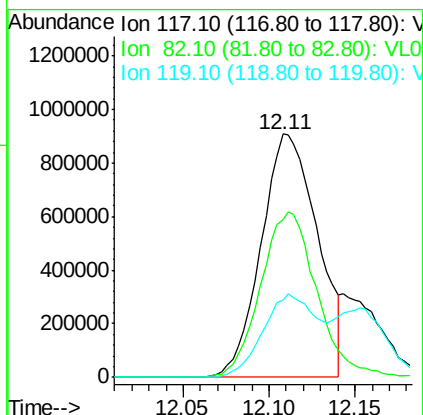
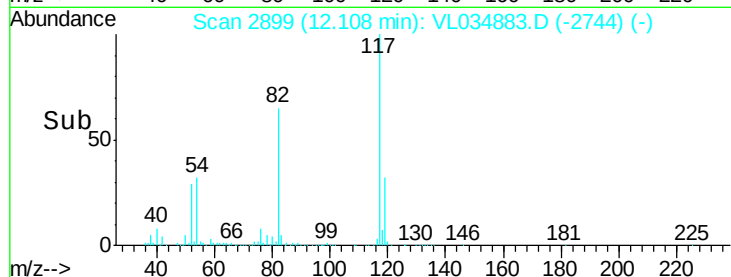
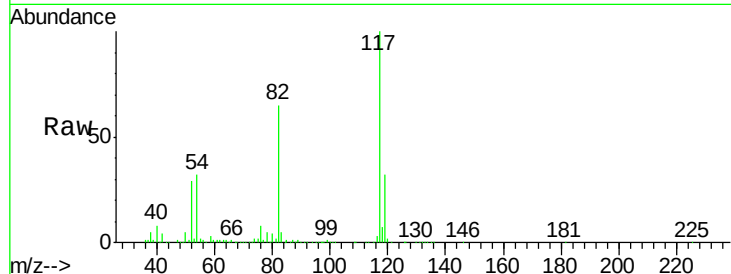
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2899
Delta R.T. -0.00 min
Lab File: VL034883.D
Acq: 11 Mar 2020 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:117 Resp: 2062610
Ion Ratio Lower Upper
117 100
82 68.4 51.1 76.7
119 35.1 27.3 40.9

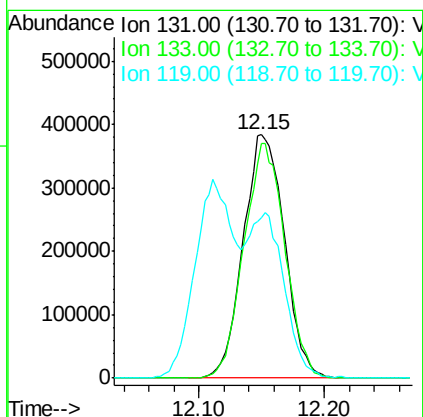
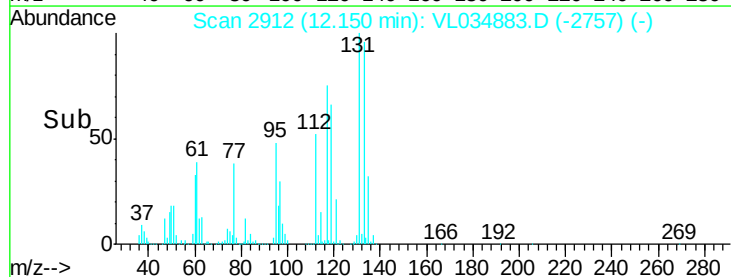
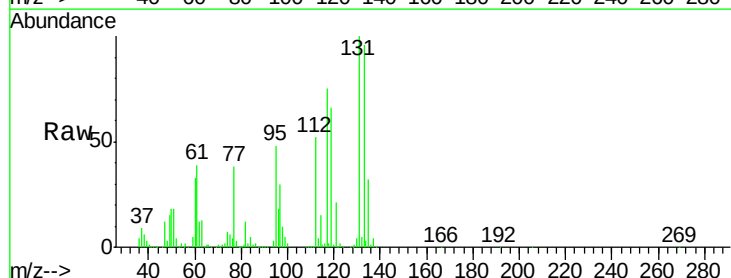
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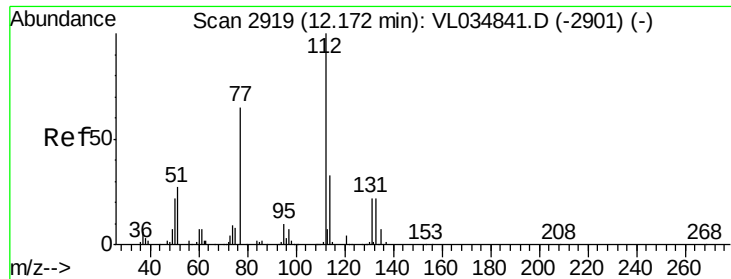
sam
3/16/2020 9:13:43 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 9.484 ppbv
RT: 12.15 min Scan# 2912
Delta R.T. -0.00 min
Lab File: VL034883.D
Acq: 11 Mar 2020 9:38

Tgt Ion:131 Resp: 878729
Ion Ratio Lower Upper
131 100
133 95.8 76.0 114.0
119 60.6 47.8 71.8





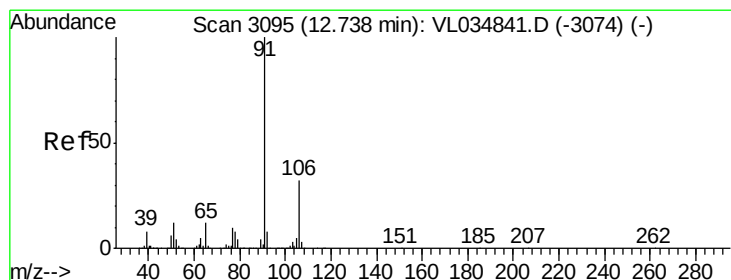
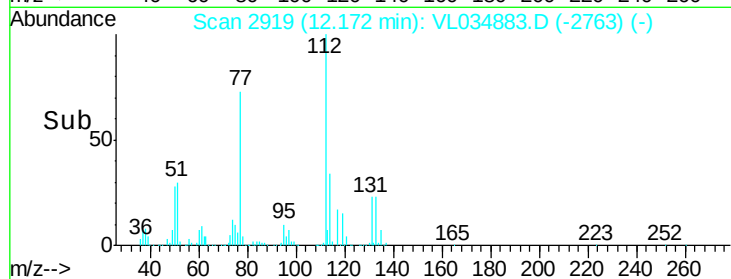
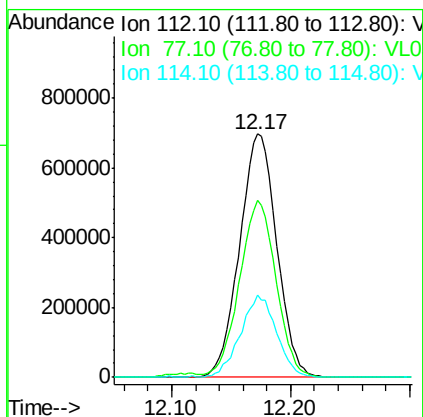
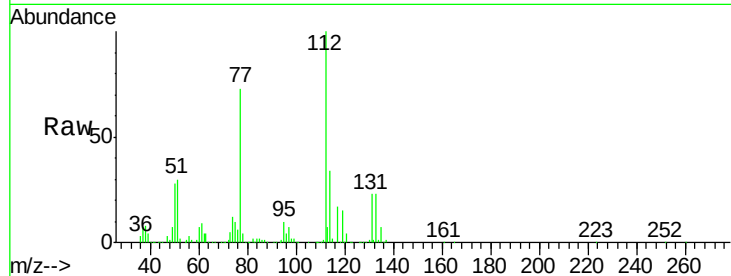
#57
Chlorobenzene
Concen: 9.348 ppbv
RT: 12.17 min Scan# 2919
Delta R.T. 0.00 min
Lab File: VL034883.D
Acq: 11 Mar 2020 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
112	100		
77	72.6	53.0	79.6
114	33.6	29.5	36.1

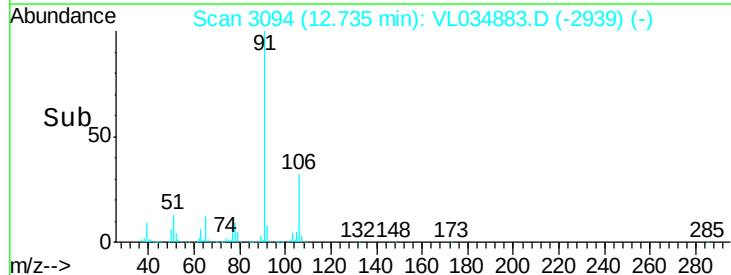
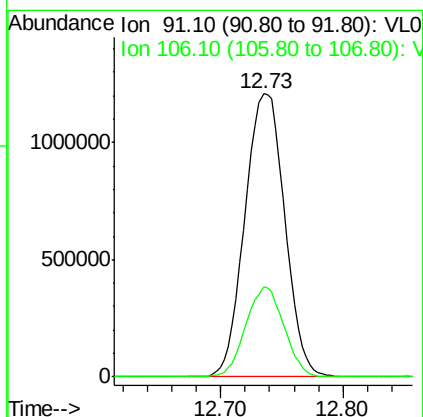
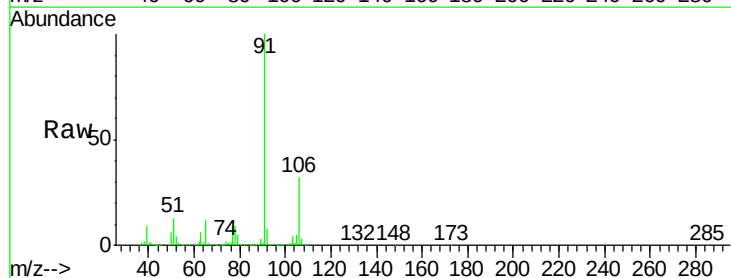
Manual Integrations
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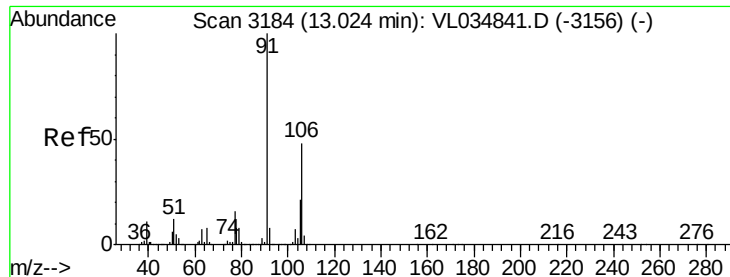
sam
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#58
Ethyl Benzene
Concen: 9.784 ppbv
RT: 12.73 min Scan# 3094
Delta R.T. -0.00 min
Lab File: VL034883.D
Acq: 11 Mar 2020 9:38

Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.1	25.8	38.6





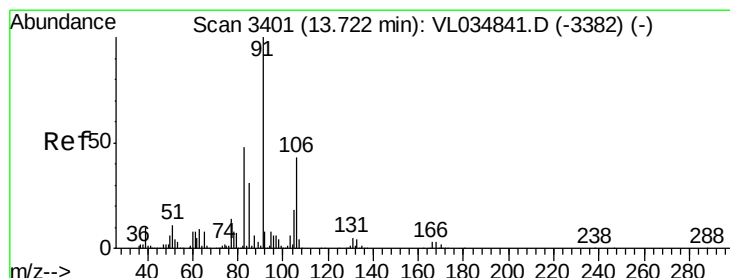
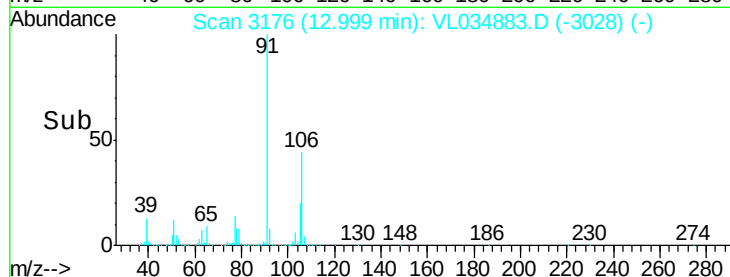
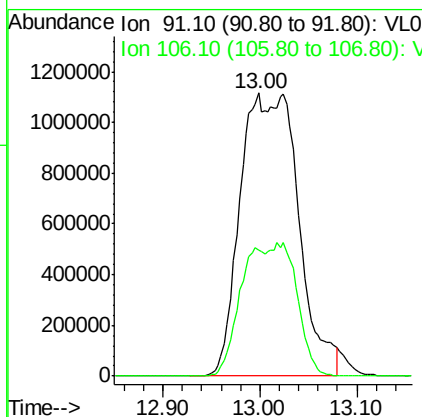
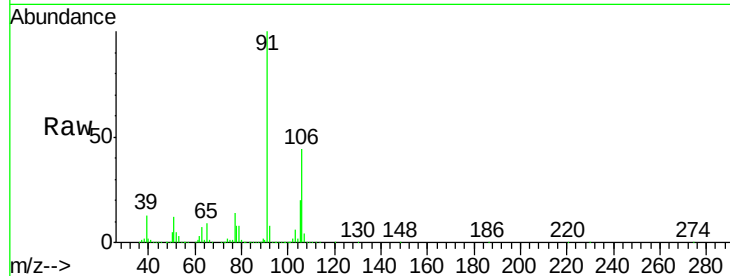
#59
m/p-Xylene
Concen: 19.732 ppbv m
RT: 13.00 min Scan# 3176
Delta R.T. -0.03 min
Lab File: VL034883.D
Acq: 11 Mar 2020 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 4617560
Ion Ratio Lower Upper
91 100
106 44.5 37.1 55.7

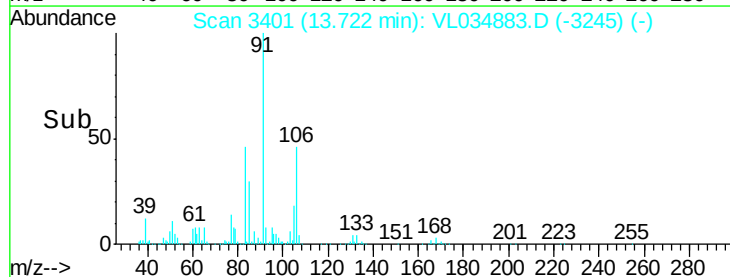
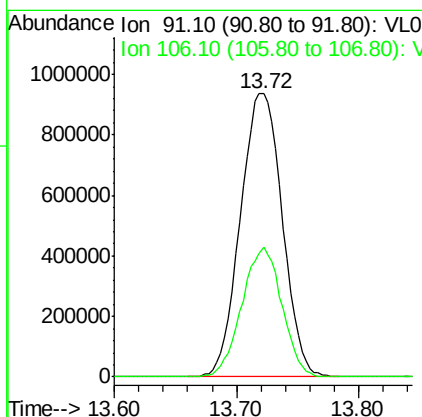
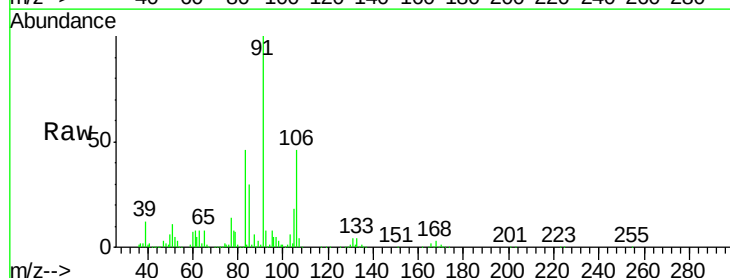
Manual Integrations
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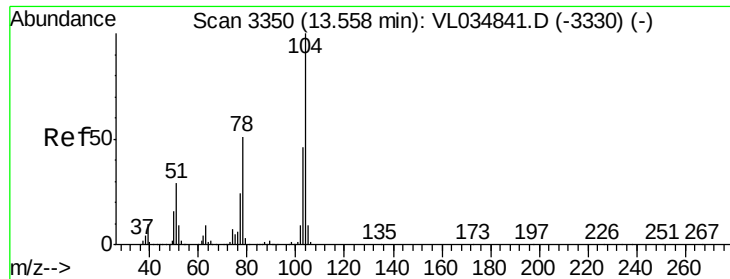
sam
3/16/2020 9:13:43 AM



#60
o-Xylene
Concen: 9.690 ppbv
RT: 13.72 min Scan# 3401
Delta R.T. 0.00 min
Lab File: VL034883.D
Acq: 11 Mar 2020 9:38

Tgt Ion: 91 Resp: 2214113
Ion Ratio Lower Upper
91 100
106 43.9 22.5 67.5





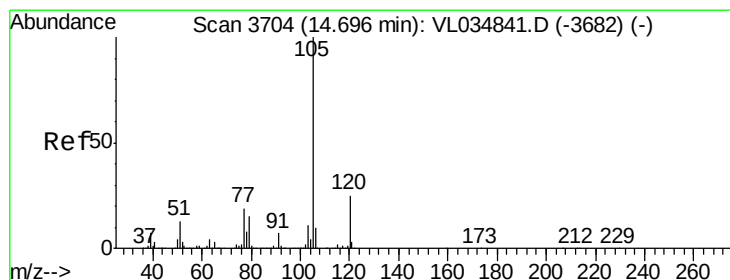
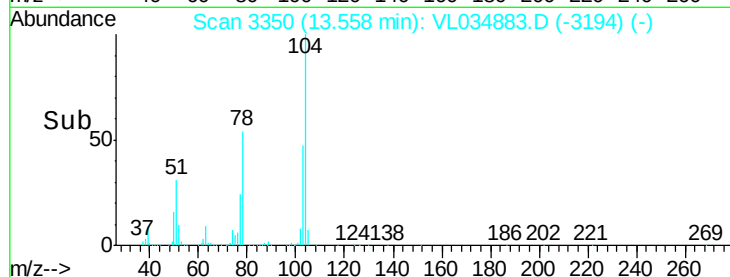
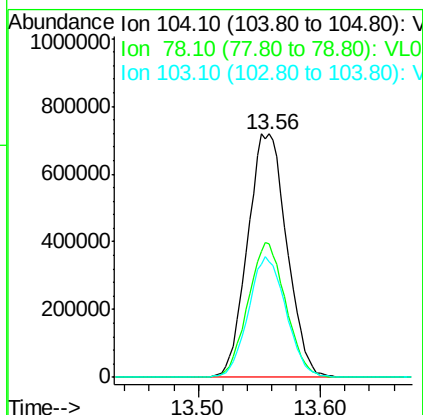
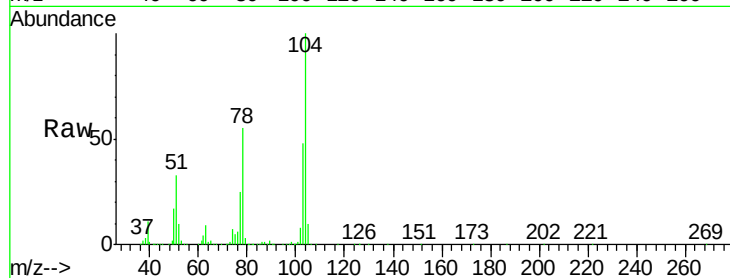
#61
Stvrene
Concen: 10.019 ppbv m
RT: 13.56 min Scan# 3350
Delta R.T. 0.00 min
Lab File: VL034883.D
Acq: 11 Mar 2020 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
104	100		
78	53.3	41.8	62.6
103	47.5	37.8	56.6

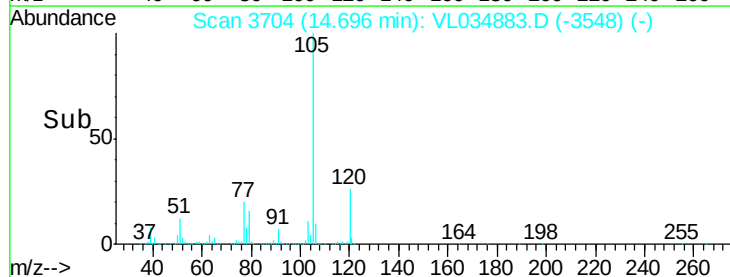
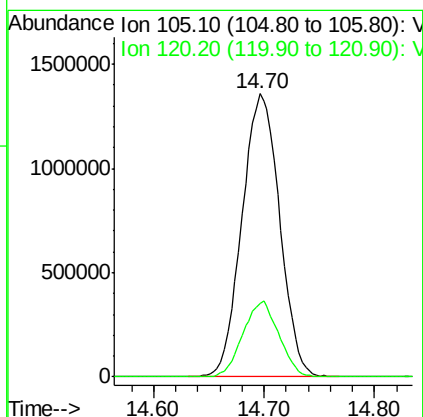
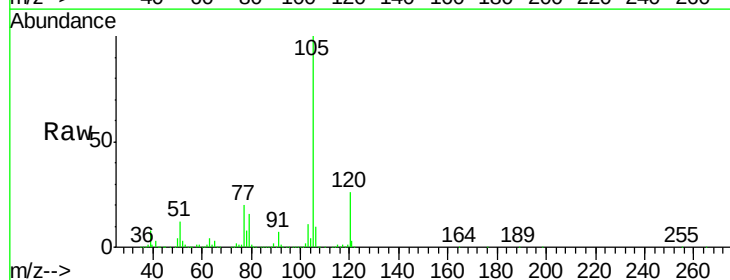
Manual Integrations
APPROVED

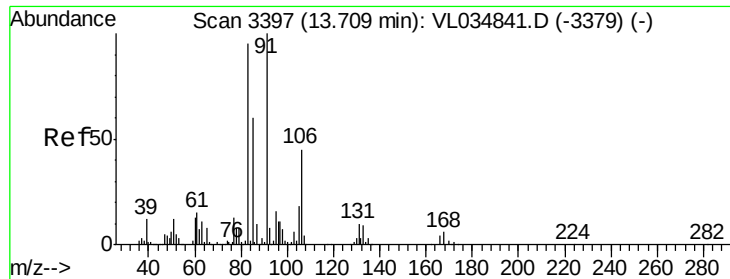
sam
3/16/2020 9:13:43 AM



#62
Isopropylbenzene
Concen: 9.309 ppbv
RT: 14.70 min Scan# 3704
Delta R.T. 0.00 min
Lab File: VL034883.D
Acq: 11 Mar 2020 9:38

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.6	21.0	31.4





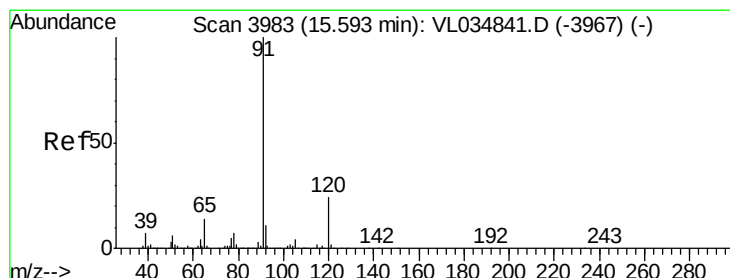
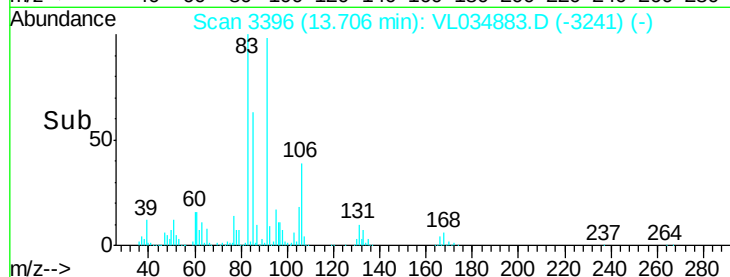
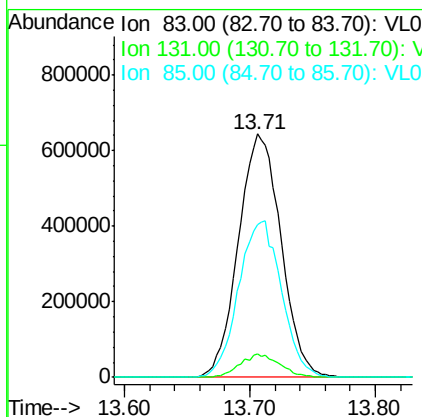
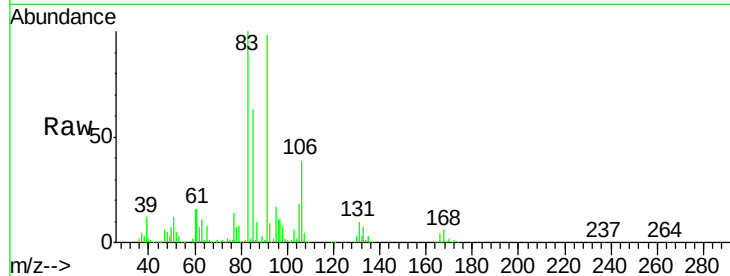
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.774 ppbv
 RT: 13.71 min Scan# 3396
 Delta R.T. -0.00 min
 Lab File: VL034883.D
 Acq: 11 Mar 2020 9:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 83 Resp: 1516029
 Ion Ratio Lower Upper
 83 100
 131 9.2 5.0 14.9
 85 65.0 32.4 97.2

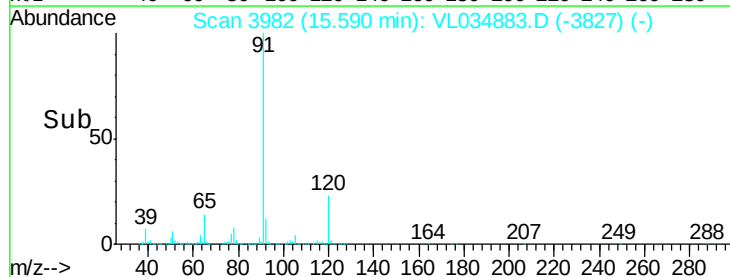
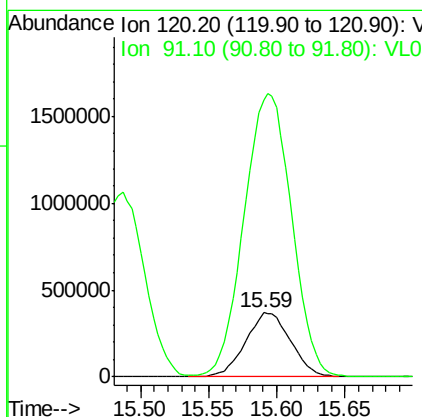
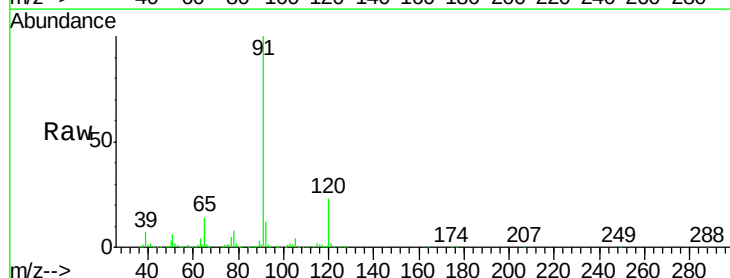
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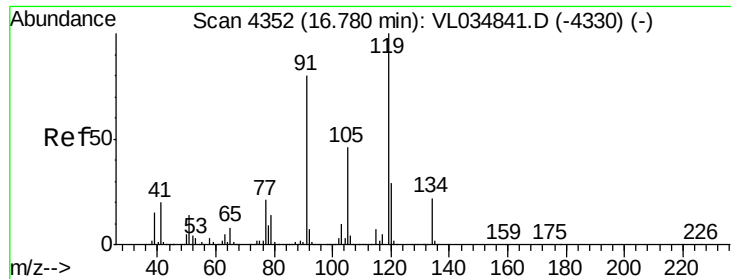
sam
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#64
 n-propylbenzene
 Concen: 9.433 ppbv
 RT: 15.59 min Scan# 3982
 Delta R.T. -0.00 min
 Lab File: VL034883.D
 Acq: 11 Mar 2020 9:38

Tgt Ion: 120 Resp: 848229
 Ion Ratio Lower Upper
 120 100
 91 466.2 360.9 541.3





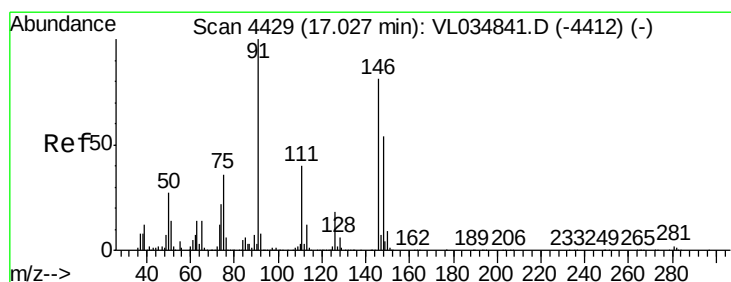
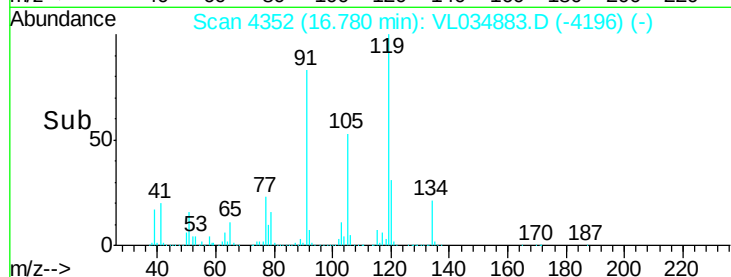
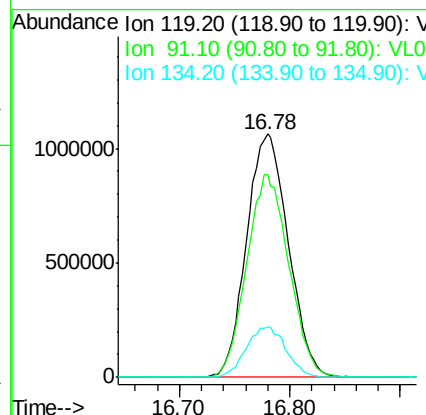
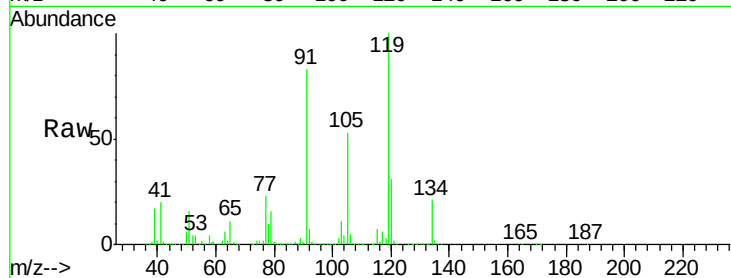
#65
 tert-Butylbenzene
 Concen: 9.230 ppbv
 RT: 16.78 min Scan# 4352
 Delta R.T. 0.00 min
 Lab File: VL034883.D
 Acq: 11 Mar 2020 9:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
91	84.3	64.9	97.3
134	19.9	15.9	23.9

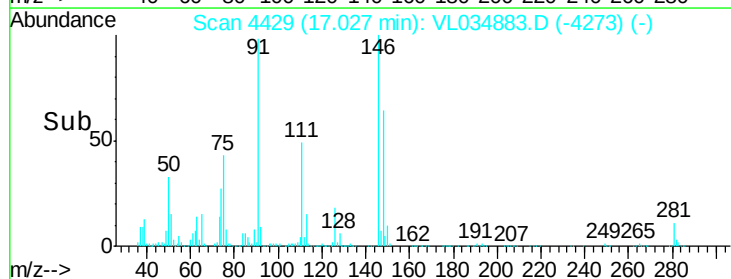
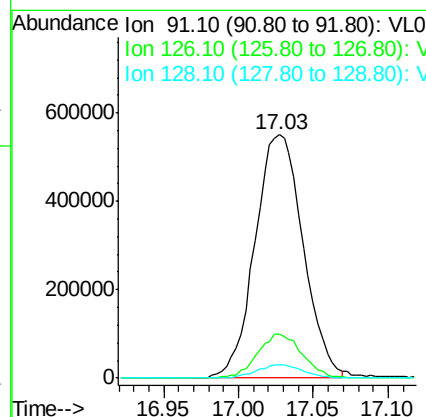
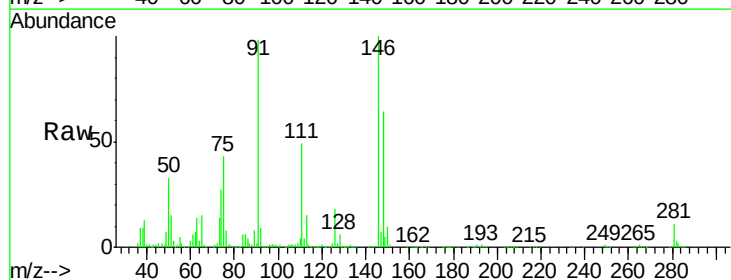
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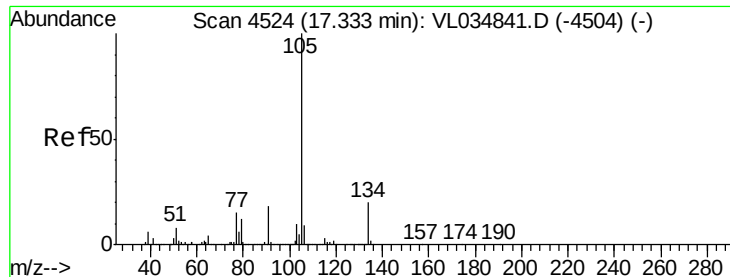
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#66
 Benzyl Chloride
 Concen: 9.762 ppbv
 RT: 17.03 min Scan# 4429
 Delta R.T. 0.00 min
 Lab File: VL034883.D
 Acq: 11 Mar 2020 9:38

Tgt Ion	Ratio	Lower	Upper
91	100		
126	17.1	14.7	22.1
128	5.5	4.7	7.1





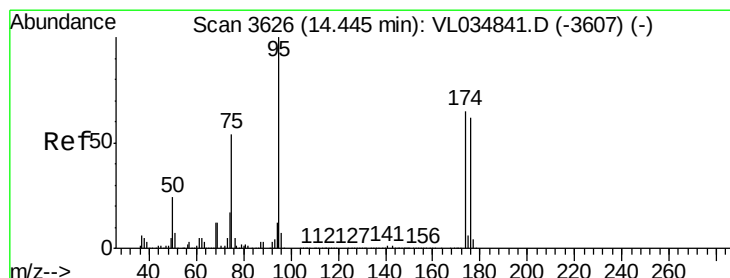
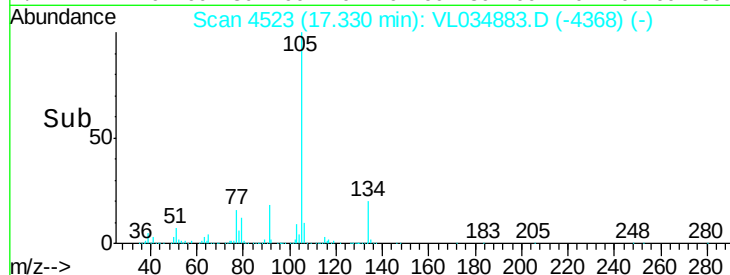
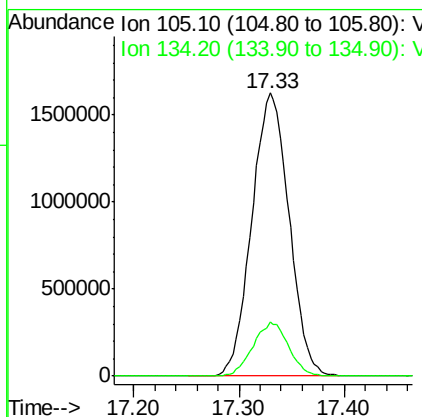
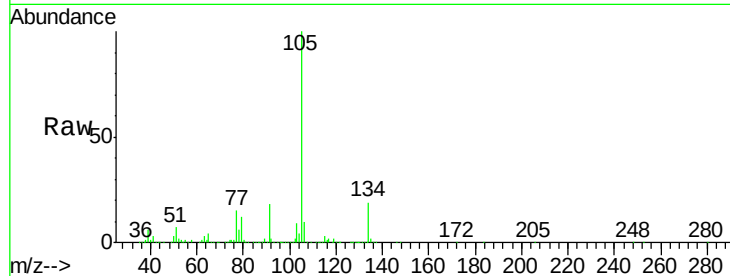
#67
 sec-Butylbenzene
 Concen: 9.545 ppbv
 RT: 17.33 min Scan# 4523
 Delta R.T. -0.00 min
 Lab File: VL034883.D
 Acq: 11 Mar 2020 9:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 105 Resp: 3997432
 Ion Ratio Lower Upper
 105 100
 134 18.2 15.0 22.6

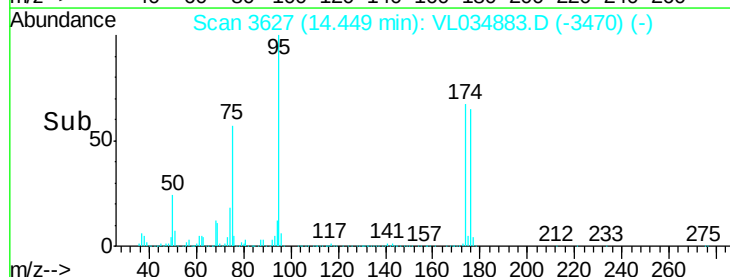
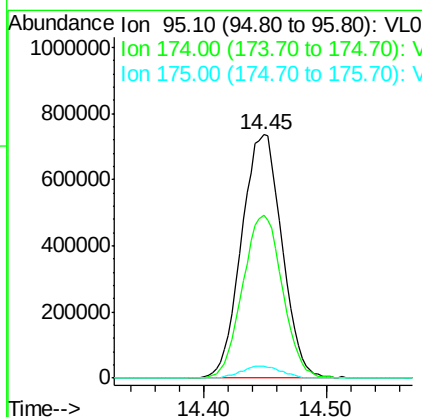
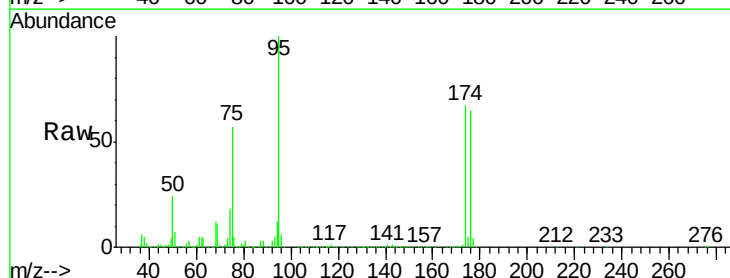
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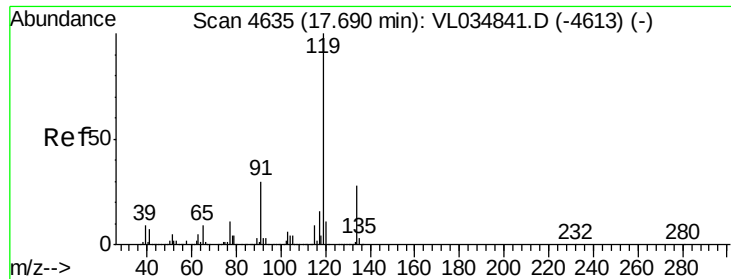
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.454 ppbv
 RT: 14.45 min Scan# 3627
 Delta R.T. 0.00 min
 Lab File: VL034883.D
 Acq: 11 Mar 2020 9:38

Tgt Ion: 95 Resp: 1681655
 Ion Ratio Lower Upper
 95 100
 174 66.3 55.2 82.8
 175 4.8 4.3 6.5





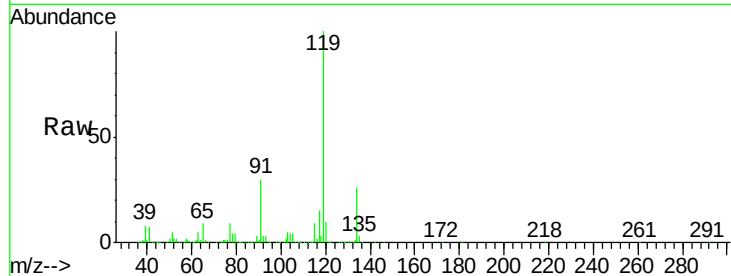
#69
 p-Isopropyltoluene
 Concen: 9.477 ppbv
 RT: 17.69 min Scan# 4634
 Delta R.T. -0.00 min
 Lab File: VL034883.D
 Acq: 11 Mar 2020 9:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

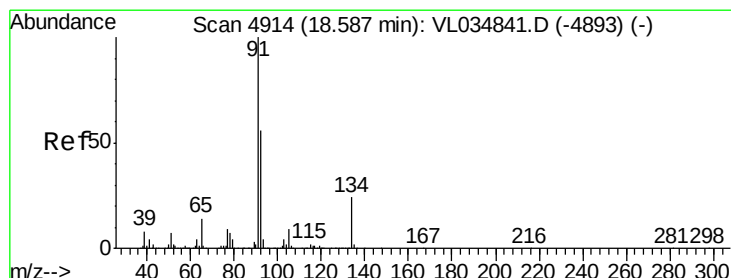
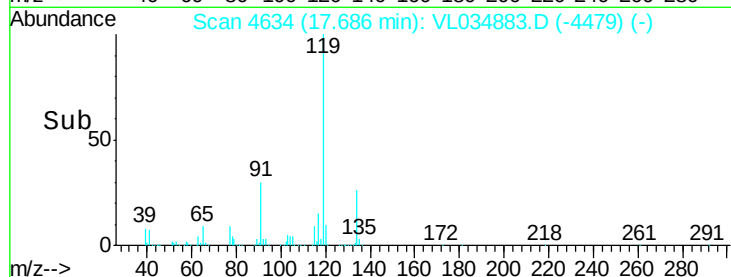
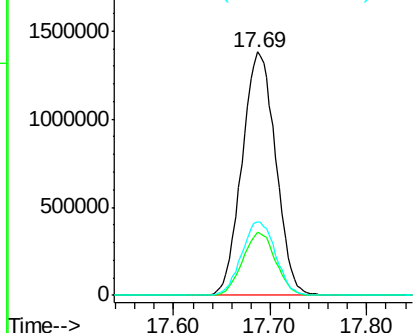
Tot Ion	Ratio	Lower	Upper
119	100		
134	25.4	20.6	30.8
91	30.5	23.4	35.2

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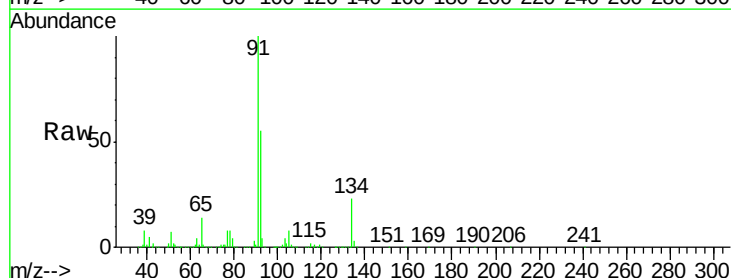


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

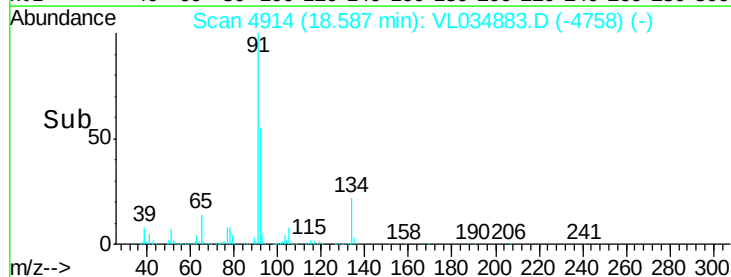
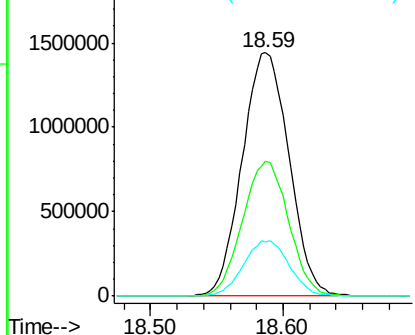


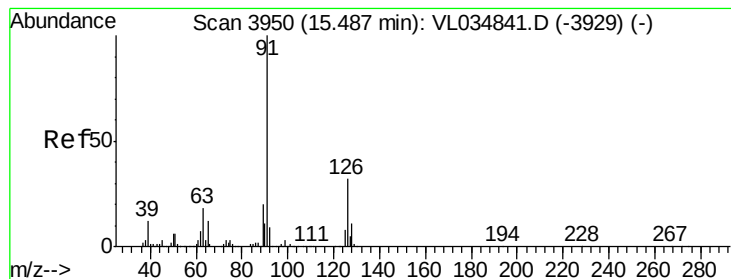
#70
 n-Butylbenzene
 Concen: 9.861 ppbv
 RT: 18.59 min Scan# 4914
 Delta R.T. 0.00 min
 Lab File: VL034883.D
 Acq: 11 Mar 2020 9:38

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.7	43.8	65.6
134	22.3	19.0	28.4



Abundance Ion 91.10 (90.80 to 91.80): V
 Ion 92.10 (91.80 to 92.80): V
 Ion 134.20 (133.90 to 134.90): V





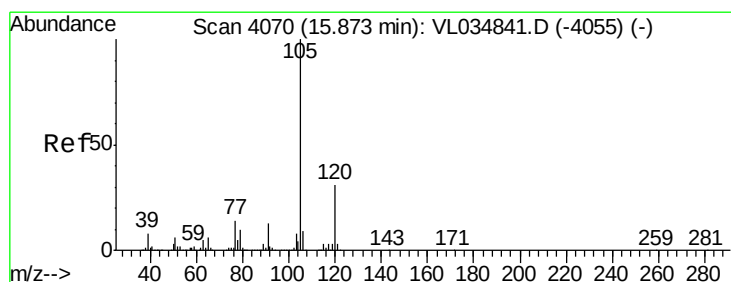
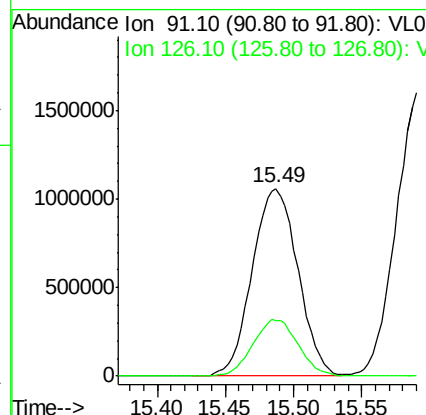
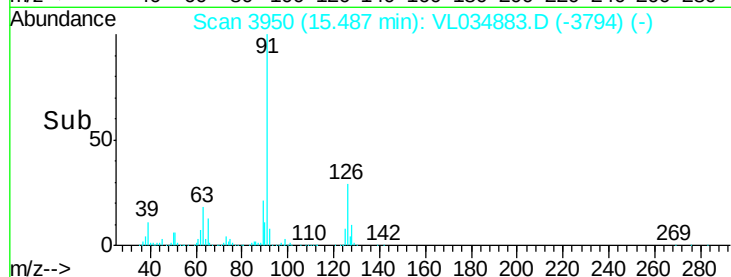
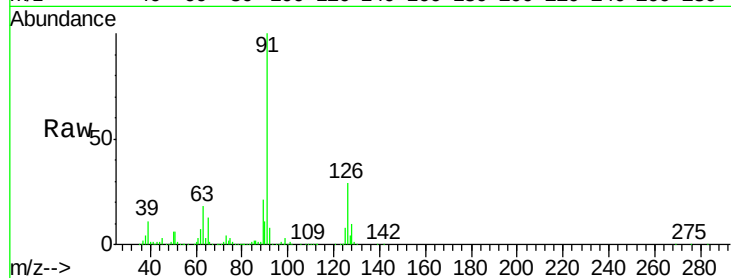
#71
 2-Chlorotoluene
 Concen: 9.417 ppbv
 RT: 15.49 min Scan# 3950
 Delta R.T. 0.00 min
 Lab File: VL034883.D
 Acq: 11 Mar 2020 9:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 91 Resp: 2463796
 Ion Ratio Lower Upper
 91 100
 126 29.9 12.3 49.1

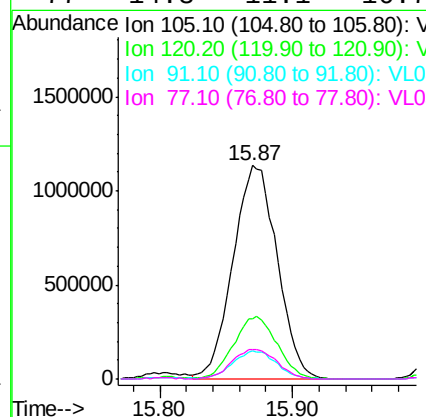
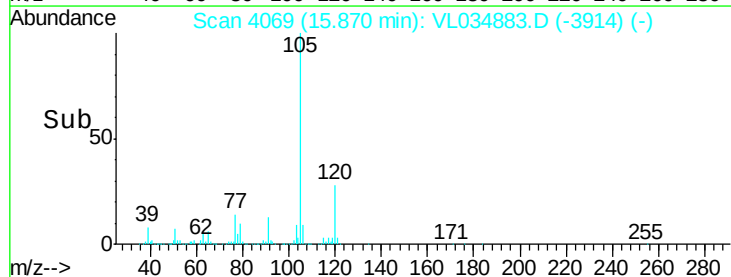
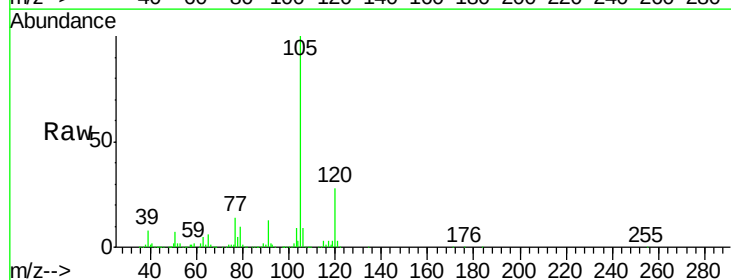
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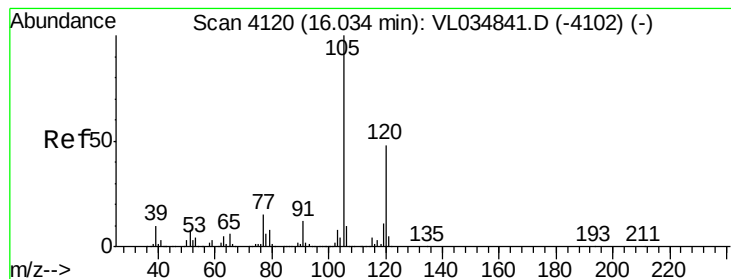
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#72
 4-Ethyltoluene
 Concen: 9.716 ppbv
 RT: 15.87 min Scan# 4069
 Delta R.T. -0.00 min
 Lab File: VL034883.D
 Acq: 11 Mar 2020 9:38

Tgt Ion: 105 Resp: 2621817
 Ion Ratio Lower Upper
 105 100
 120 28.9 23.7 35.5
 91 12.9 10.5 15.7
 77 14.3 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 9.747 ppbv

RT: 16.03 min Scan# 4119

Delta R.T. -0.00 min

Lab File: VL034883.D

Acq: 11 Mar 2020 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 2462051

Ion Ratio Lower Upper

105 100

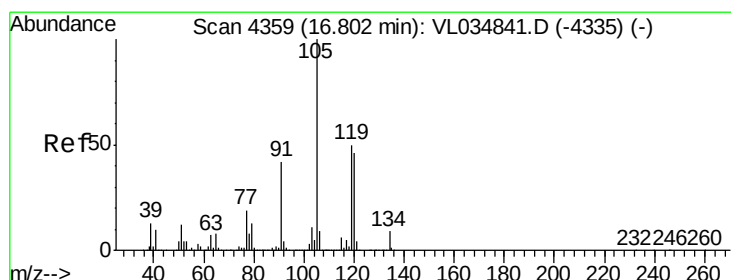
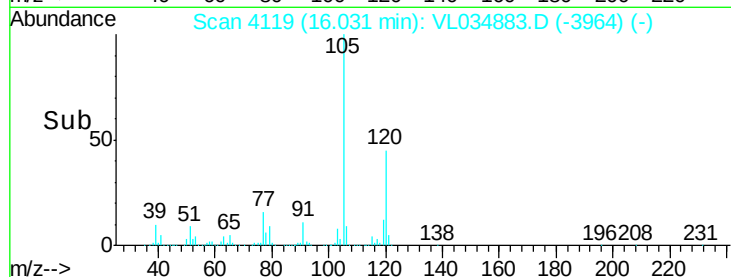
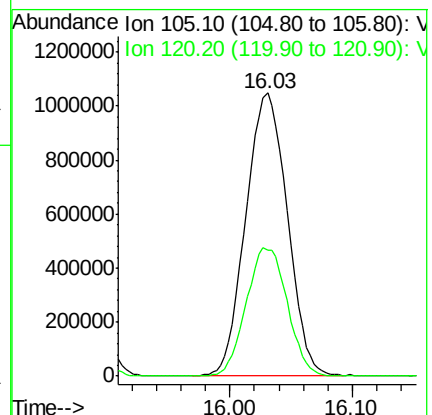
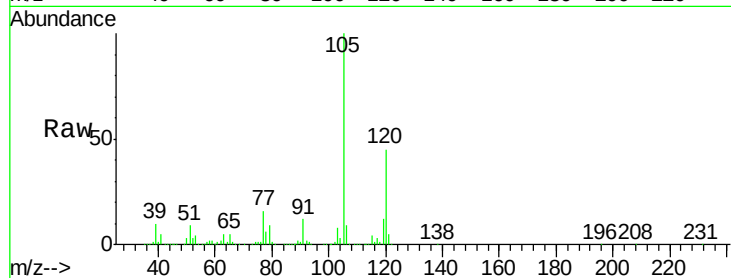
120 44.7 38.6 58.0

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#74

1,2,4-Trimethylbenzene

Concen: 9.852 ppbv

RT: 16.80 min Scan# 4359

Delta R.T. 0.00 min

Lab File: VL034883.D

Acq: 11 Mar 2020 9:38

Tgt Ion:105 Resp: 2563912

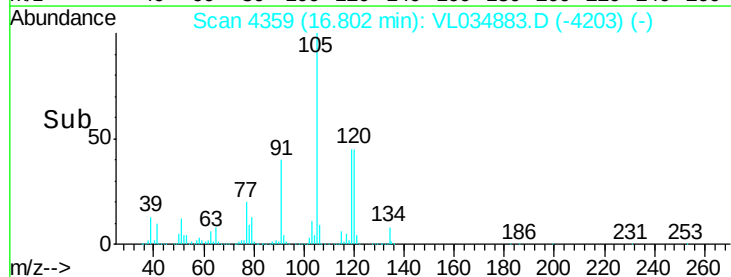
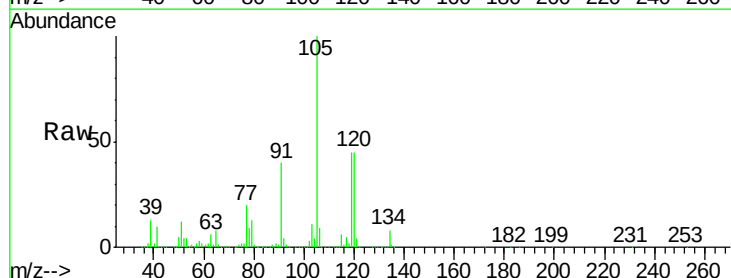
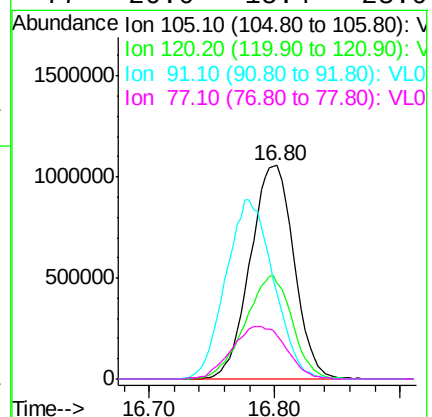
Ion Ratio Lower Upper

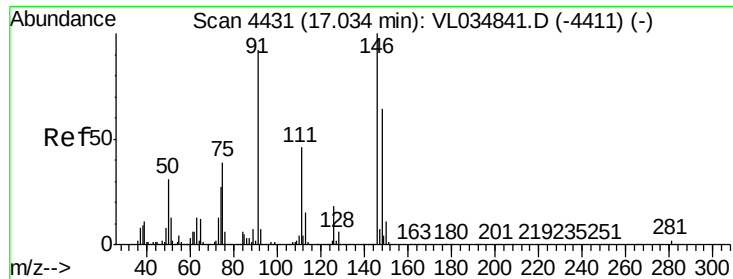
105 100

120 44.4 37.0 55.4

91 39.7 33.8 50.6

77 20.0 15.4 23.0





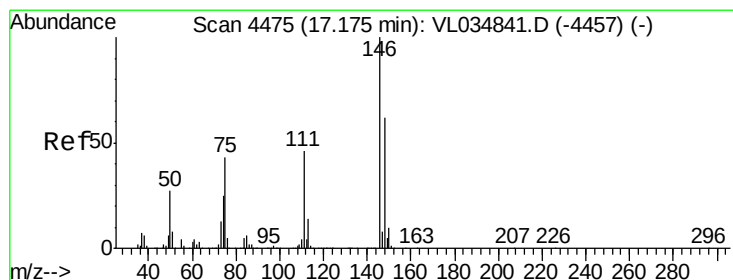
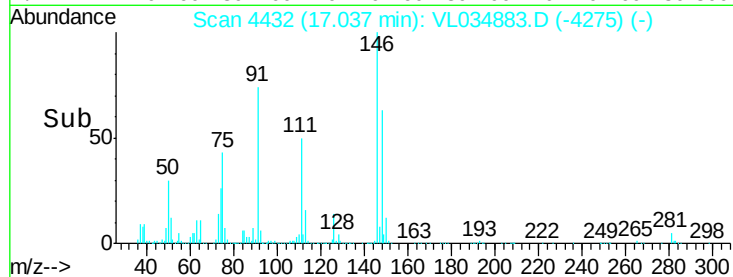
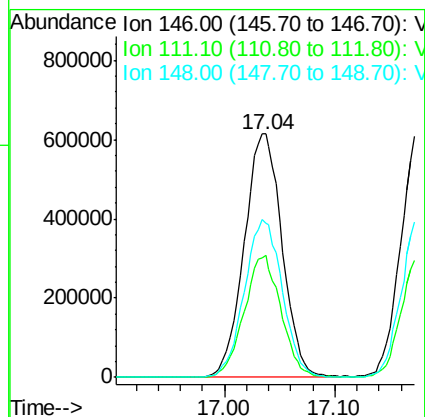
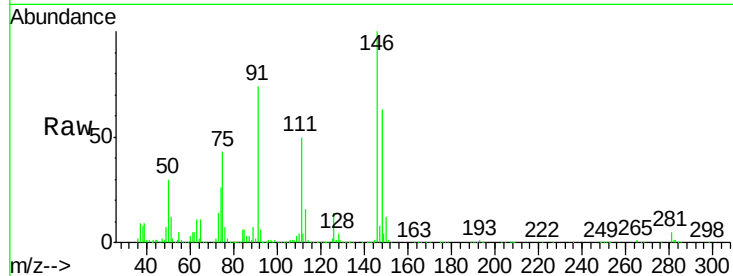
#75
 1,3-Dichlorobenzene
 Concen: 9.295 ppbv
 RT: 17.04 min Scan# 4432
 Delta R.T. 0.00 min
 Lab File: VL034883.D
 Acq: 11 Mar 2020 9:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 1458500
 Ion Ratio Lower Upper
 146 100
 111 48.7 23.9 71.7
 148 64.9 32.5 97.5

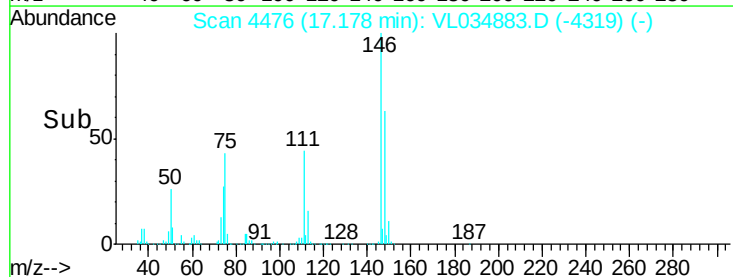
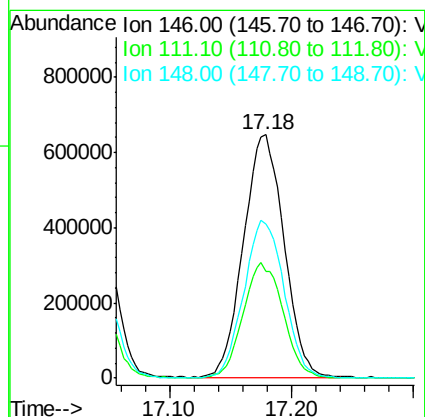
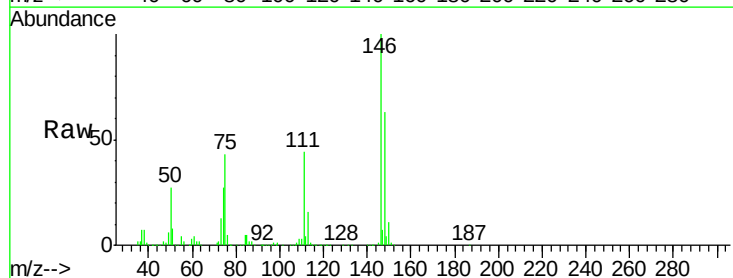
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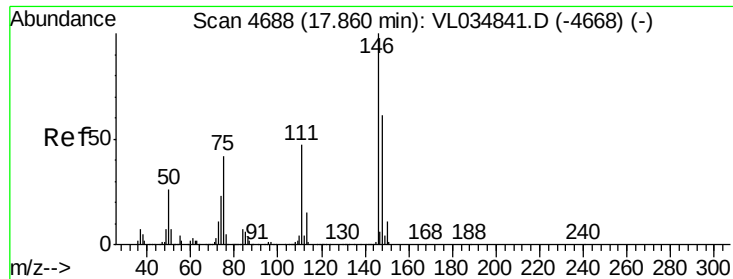
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#76
 1,4-Dichlorobenzene
 Concen: 9.461 ppbv
 RT: 17.18 min Scan# 4476
 Delta R.T. 0.00 min
 Lab File: VL034883.D
 Acq: 11 Mar 2020 9:38

Tgt Ion:146 Resp: 1481486
 Ion Ratio Lower Upper
 146 100
 111 47.2 23.4 70.2
 148 65.1 32.3 96.9





#77

1,2-Dichlorobenzene

Concen: 9.428 ppbv

RT: 17.85 min Scan# 4686

Delta R.T. -0.01 min

Lab File: VL034883.D

Acq: 11 Mar 2020 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 1434003

Ion Ratio Lower Upper

146 100

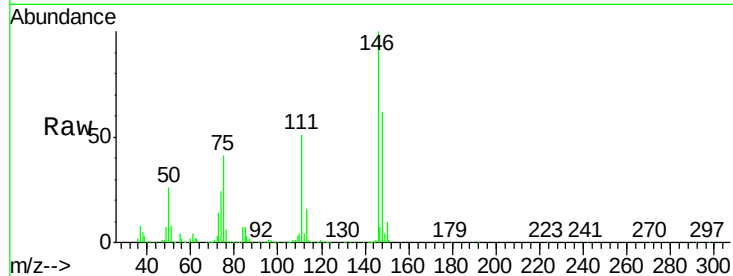
111 50.3 23.8 71.4

148 64.2 31.6 94.8

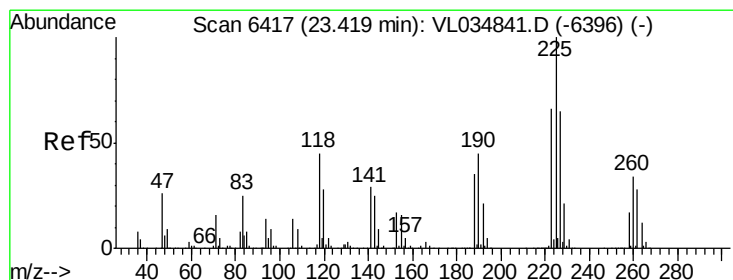
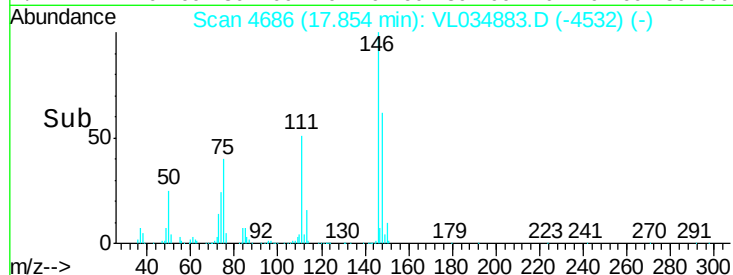
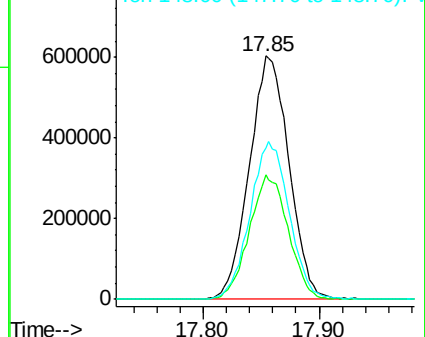
Manual Integrations
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 10.036 ppbv

RT: 23.42 min Scan# 6417

Delta R.T. 0.00 min

Lab File: VL034883.D

Acq: 11 Mar 2020 9:38

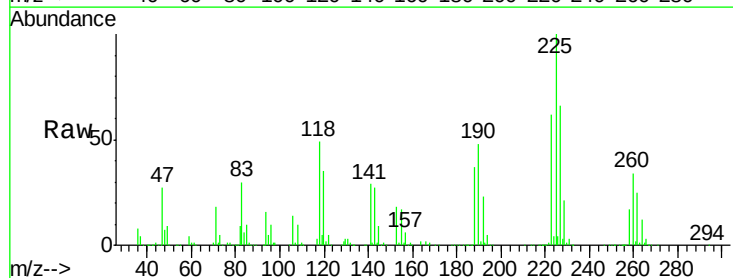
Tgt Ion:225 Resp: 1274997

Ion Ratio Lower Upper

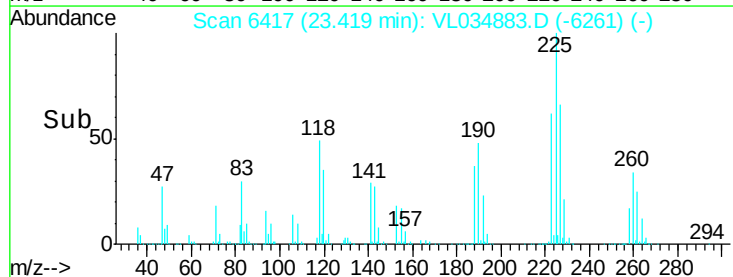
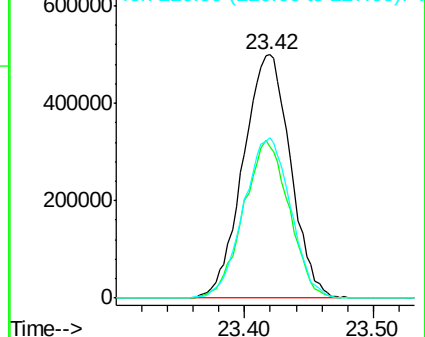
225 100

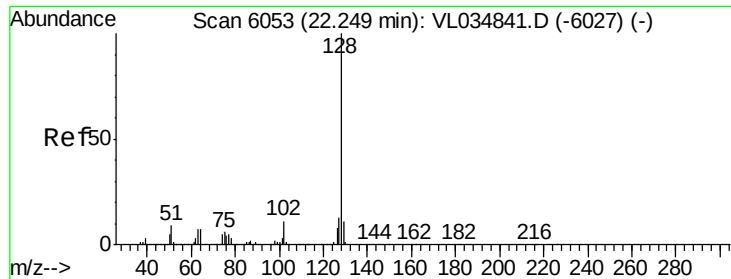
223 62.5 51.1 76.7

227 65.6 51.8 77.6



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





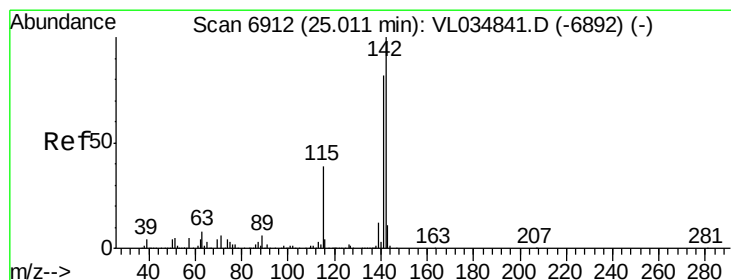
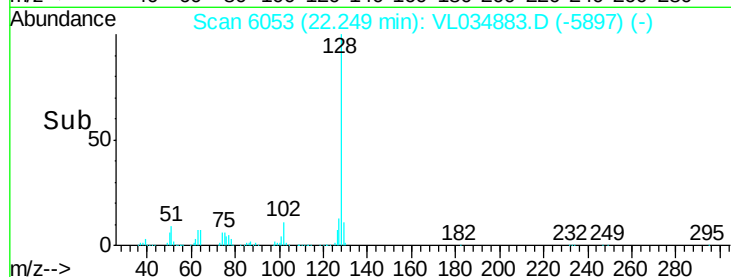
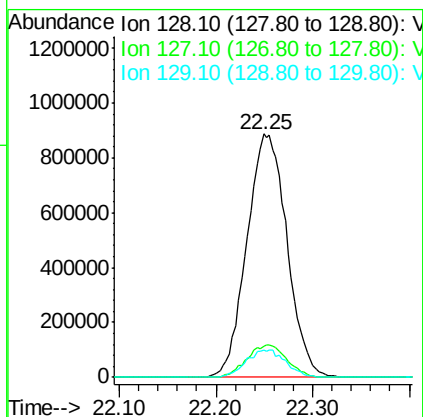
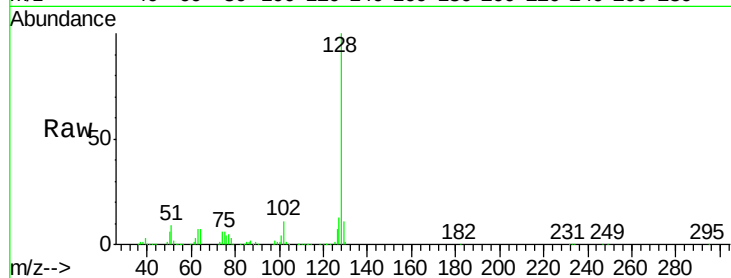
#79
Naphthalene
Concen: 12.555 ppbv
RT: 22.25 min Scan# 6053
Delta R.T. 0.00 min
Lab File: VL034883.D
Acq: 11 Mar 2020 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.2
129	11.2	8.6	13.0

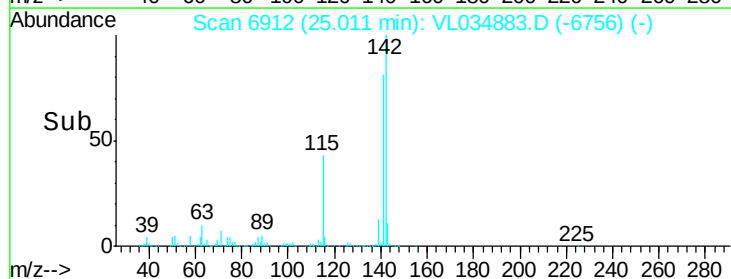
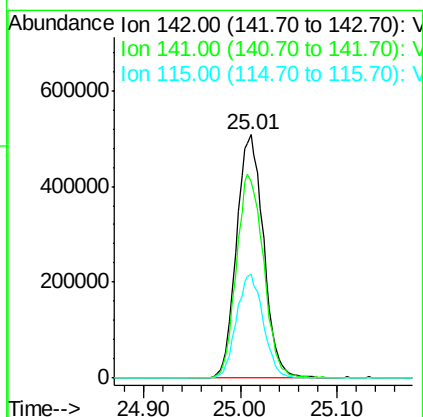
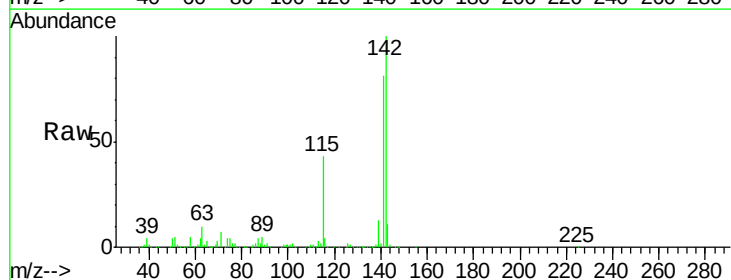
Manual Integrations
APPROVED

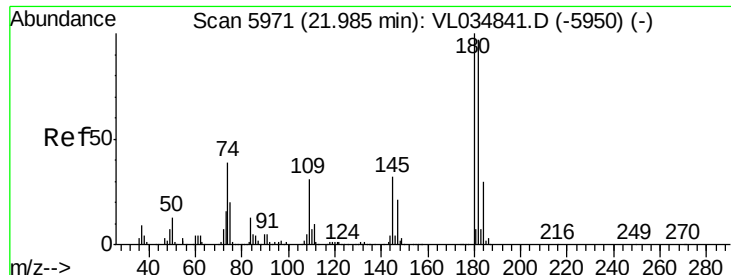
sam
3/16/2020 9:13:43 AM



#80
Naphthalene, 2-methyl-
Concen: 18.598 ppbv
RT: 25.01 min Scan# 6912
Delta R.T. 0.00 min
Lab File: VL034883.D
Acq: 11 Mar 2020 9:38

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.9	68.9	103.3
115	42.1	33.2	49.8





#81
 1,2,4-Trichlorobenzene
 Concen: 11.320 ppbv
 RT: 21.99 min Scan# 5971
 Delta R.T. 0.00 min
 Lab File: VL034883.D
 Acq: 11 Mar 2020 9:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
180	100			
182	95.7	76.6	115.0	
184	31.2	25.0	37.4	

Manual Integrations
 APPROVED

sam
 3/16/2020 9:13:43 AM

