

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL123019\
 Data File : VL034541.D
 Acq On : 31 Dec 2019 10:20
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
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 1/2/2020 10:50:25 AM

Quant Time: Dec 31 16:26:52 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL123019AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 31 2019

QLast Update : Mon Dec 30 14:58:50 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1004936	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	2036055	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	2152854	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.48	95	1718287	9.56	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.60%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	1434335	9.050	ppbv	97
3) Chlorodifluoromethane	2.96	51	1084573	9.058	ppbv	100
4) Chloromethane	3.11	50	666567	9.372	ppbv	99
5) Vinyl Chloride	3.23	62	617399	8.865	ppbv	99
6) Bromomethane	3.45	94	334287	9.643	ppbv	98
7) Chloroethane	3.53	64	235441	9.701	ppbv	97
8) Dichlorotetrafluoroethane	3.16	85	1471163	9.255	ppbv	100
9) Propene	2.98	41	461500	9.997	ppbv	100
10) Heptane	8.15	43	1207088	10.126	ppbv	99
11) Trichlorofluoromethane	3.93	101	1680499	9.163	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1138776	9.762	ppbv	97
13) Ethanol	3.58	45	105029	8.200	ppbv	98
14) Bromoethene	3.72	108	457610	9.699	ppbv	99
15) Acetone	3.83	43	1225015	8.353	ppbv	100
16) 1,3-Butadiene	3.30	39	570473	10.114	ppbv	100
17) tert-Butyl alcohol	4.28	59	1163702	9.909	ppbv	99
18) 1,1-Dichloroethene	4.28	96	496540	9.772	ppbv	92
19) Isopropyl Alcohol	3.95	45	906299	9.546	ppbv	100
20) Methylene Chloride	4.33	84	446881	7.744	ppbv	98
21) Allyl Chloride	4.40	41	850236	10.086	ppbv	99
22) trans-1,2-Dichloroethene	4.88	96	514156	9.948	ppbv	98
23) Vinyl Acetate	5.07	43	1721799	10.169	ppbv	99
24) 1,1-Dichloroethane	5.01	63	1286559	9.458	ppbv	98
25) Ethyl Acetate	5.68	43	2206591	9.634	ppbv	100
26) Hexane	5.69	57	923244	9.566	ppbv	98
27) Carbon Disulfide	4.54	76	1270310	10.413	ppbv	99
28) Methyl tert-Butyl Ether	5.03	73	1668858	10.353	ppbv	100
29) Chloroform	5.76	83	1553867	9.305	ppbv	99
30) Cyclohexane	7.15	84	740181	10.318	ppbv	99
31) cis-1,2-Dichloroethene	5.56	61	1024513	10.417	ppbv	95
32) 1,1,1-Trichloroethane	6.53	97	1589911	9.172	ppbv	99
34) 2-Butanone	5.25	43	1422540	9.777	ppbv	99
35) Carbon Tetrachloride	7.04	117	1702307	9.219	ppbv	98
36) Benzene	6.92	78	1764447	9.942	ppbv	98
37) 1,2-Dichloroethane	6.32	62	1356293	9.410	ppbv	99
38) Trichloroethene	7.87	130	723353	10.089	ppbv	98
39) 1,2-Dichloropropane	7.64	63	728784	9.986	ppbv	99
40) 1,4-Dioxane	7.86	88	287858	9.746	ppbv #	96
41) Tetrahydrofuran	6.06	42	783119	10.492	ppbv	98
42) Bromodichloromethane	7.82	83	1695436	9.560	ppbv	98
43) Methyl Methacrylate	8.04	69	758269	10.474	ppbv	99

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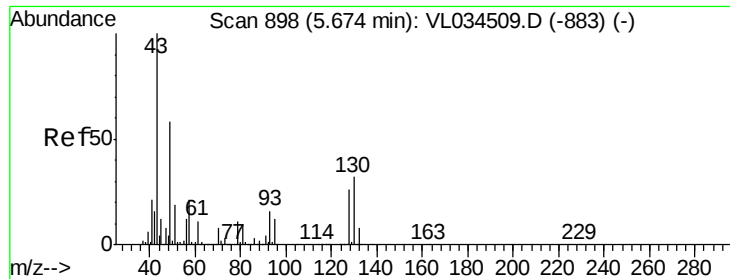
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Quant Time: Dec 31 16:26:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL123019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 31 2019
 QLast Update : Mon Dec 30 14:58:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.90	57	3174656	9.669	ppbv	100
45) t-1,3-Dichloropropene	9.32	75	1057107	11.335	ppbv	94
46) cis-1,3-Dichloropropene	8.74	75	1162513	10.905	ppbv	100
47) 1,1,2-Trichloroethane	9.52	97	745579	9.268	ppbv	99
48) Dibromochloromethane	10.35	129	1400395	10.041	ppbv	99
49) Bromoform	13.10	173	1201345	9.515	ppbv	100
50) 4-Methyl-2-Pentanone	8.77	43	2073296	9.816	ppbv	99
51) 2-Hexanone	10.17	43	1718951	10.082	ppbv	100
52) Tetrachloroethene	11.27	164	668101m	9.646	ppbv	
53) Toluene	9.85	91	2023492	10.377	ppbv	99
54) 1,2-Dibromoethane	10.66	107	1125441	9.613	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.18	131	919700	8.849	ppbv	96
57) Chlorobenzene	12.20	112	1560412	8.785	ppbv	99
58) Ethyl Benzene	12.76	91	2776302	9.562	ppbv	98
59) m/p-Xylene	13.05	91	4583290m	18.052	ppbv	
60) o-Xylene	13.75	91	2309734	9.066	ppbv	99
61) Styrene	13.58	104	1671989	9.599	ppbv	99
62) Isopropylbenzene	14.73	105	2997788	8.995	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.74	83	1599265	7.825	ppbv	99
64) n-propylbenzene	15.62	120	776299	9.123	ppbv	98
65) tert-Butylbenzene	16.81	119	2748166	9.128	ppbv	100
66) Benzyl Chloride	17.05	91	1301053	9.860	ppbv	100
67) sec-Butylbenzene	17.36	105	3790917	8.966	ppbv	99
69) p-Isopropyltoluene	17.72	119	3227159	9.411	ppbv	100
70) n-Butylbenzene	18.62	91	3475108	9.392	ppbv	99
71) 2-Chlorotoluene	15.52	91	2348664	9.076	ppbv	100
72) 4-Ethyltoluene	15.90	105	2636214	9.247	ppbv	99
73) 1,3,5-Trimethylbenzene	16.06	105	2558353	9.147	ppbv	95
74) 1,2,4-Trimethylbenzene	16.83	105	2710205	9.058	ppbv	93
75) 1,3-Dichlorobenzene	17.06	146	1566783	8.743	ppbv	98
76) 1,4-Dichlorobenzene	17.21	146	1555074	9.013	ppbv	99
77) 1,2-Dichlorobenzene	17.89	146	1546563m	9.183	ppbv	
78) Hexachloro-1,3-Butadiene	23.45	225	1537608	9.618	ppbv	99
79) Naphthalene	22.29	128	2780413	12.338	ppbv	98
80) Naphthalene, 2-methyl-	25.04	142	931154	14.915	ppbv #	93
81) 1,2,4-Trichlorobenzene	22.02	180	1651081	11.252	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.00 min

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Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 1004936

Ion Ratio Lower Upper

49 100

128 44.1 22.4 67.2

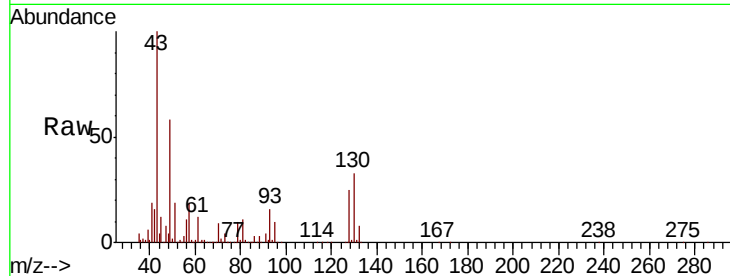
130 55.9 28.3 85.0

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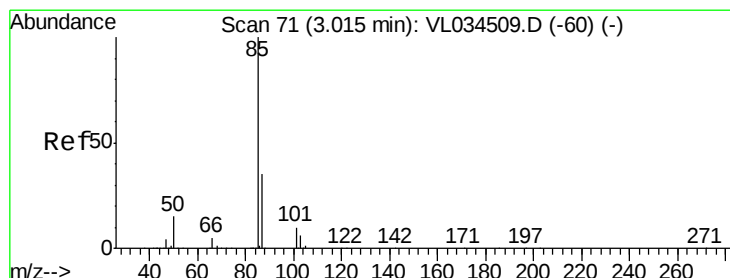
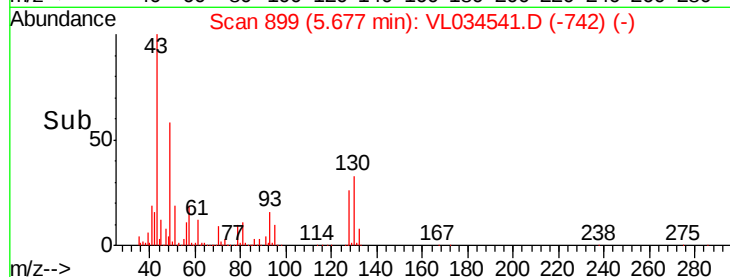
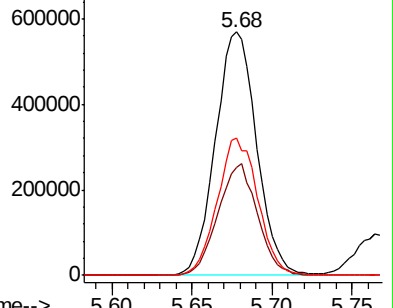
1/2/2020 10:50:25 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 9.050 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.00 min

Lab File: VL034541.D

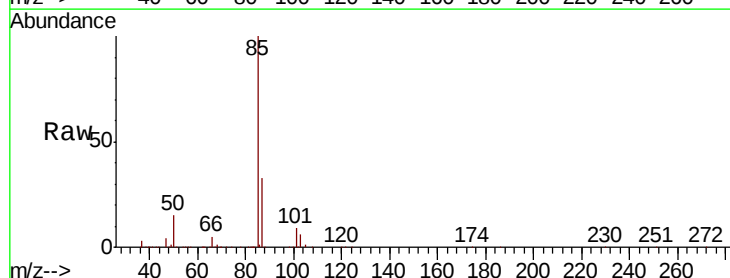
Acq: 31 Dec 2019 10:20

Tgt Ion: 85 Resp: 1434335

Ion Ratio Lower Upper

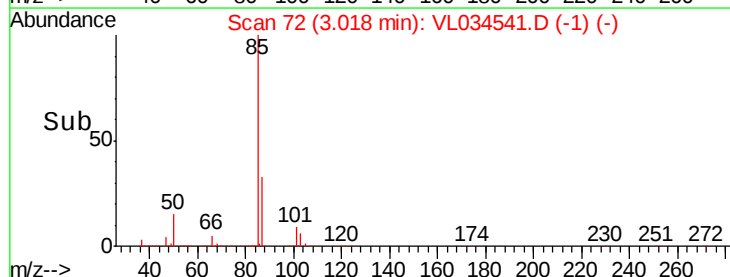
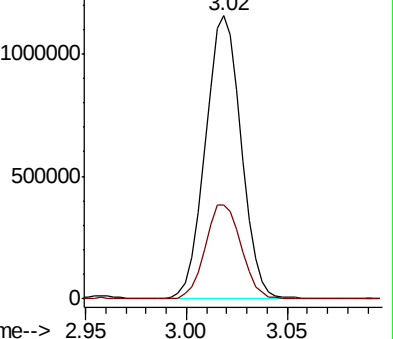
85 100

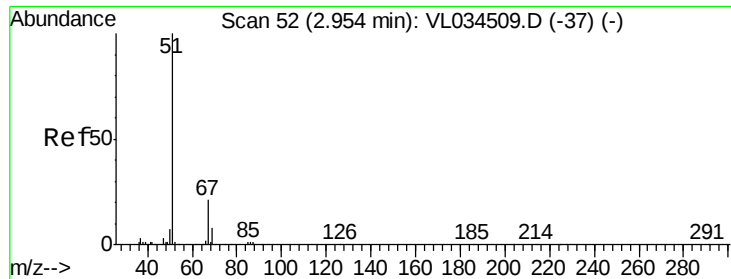
87 33.3 27.9 41.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.058 ppbv

RT: 2.96 min Scan# 53

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 51 Resp: 1084573

Ion Ratio Lower Upper

51 100

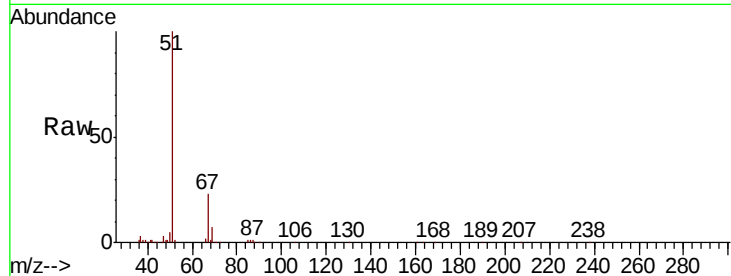
67 21.2 16.8 25.2

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.96

800000

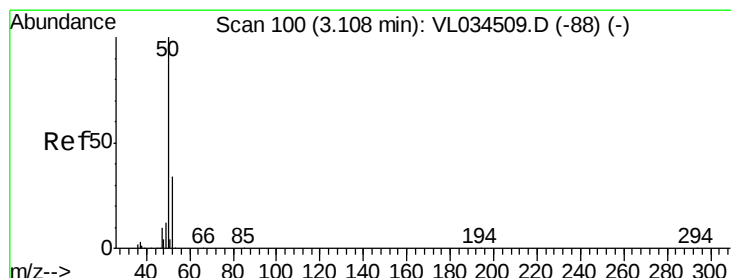
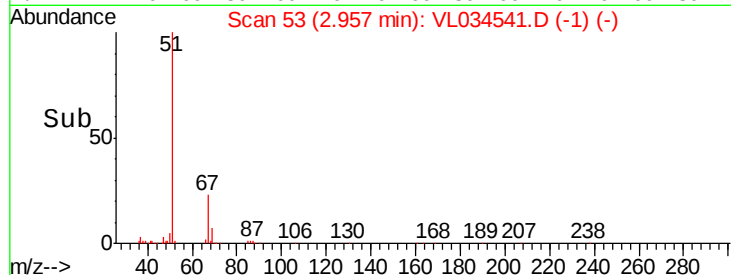
600000

400000

200000

0

Time-->



#4

Chloromethane

Concen: 9.372 ppbv

RT: 3.11 min Scan# 101

Delta R.T. 0.00 min

Lab File: VL034541.D

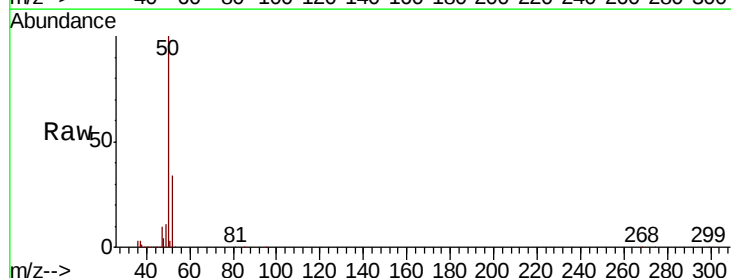
Acq: 31 Dec 2019 10:20

Tgt Ion: 50 Resp: 666567

Ion Ratio Lower Upper

50 100

52 34.1 27.6 41.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.11

600000

500000

400000

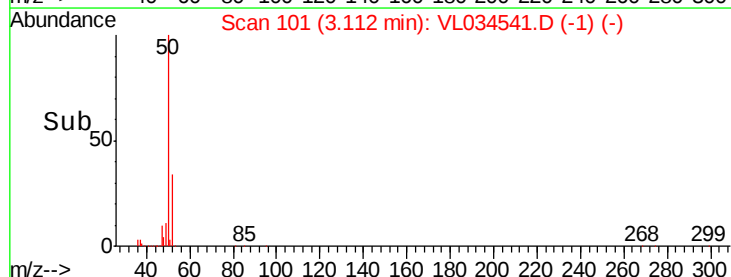
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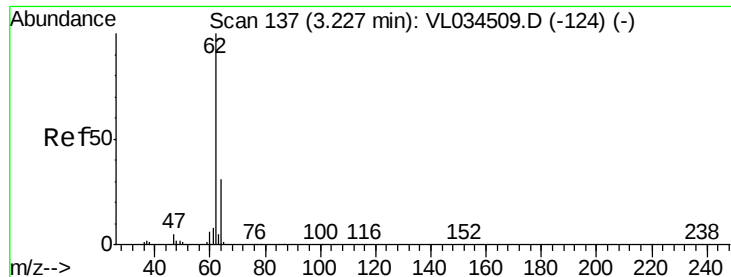
200000

100000

0

Time-->





#5

Vinyl Chloride

Concen: 8.865 ppbv

RT: 3.23 min Scan# 138

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 617399

Ion Ratio Lower Upper

62 100

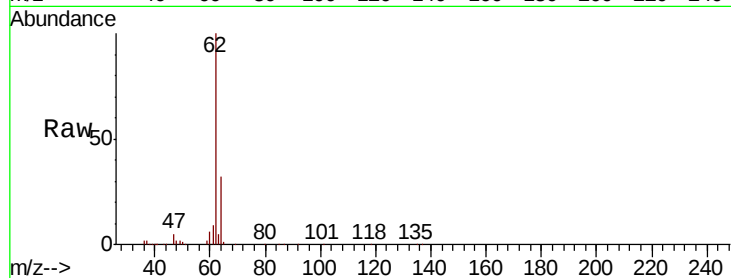
64 31.6 24.9 37.3

Manual Integrations

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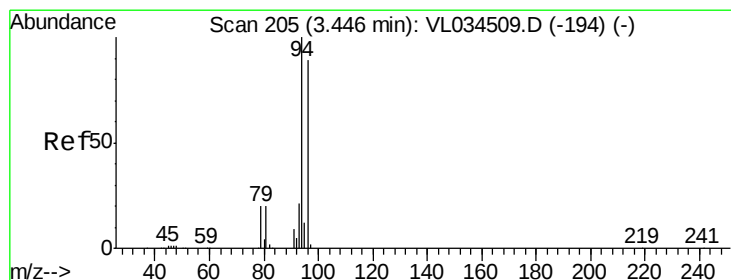
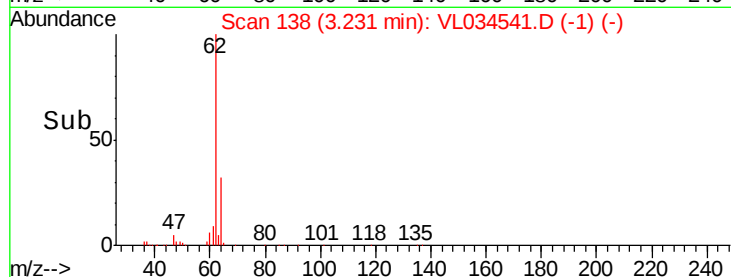
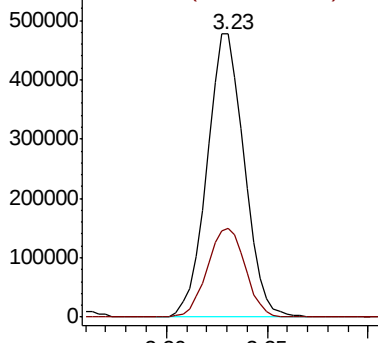
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.643 ppbv

RT: 3.45 min Scan# 206

Delta R.T. 0.00 min

Lab File: VL034541.D

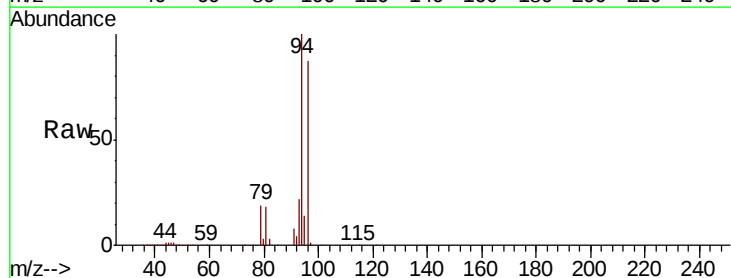
Acq: 31 Dec 2019 10:20

Tgt Ion: 94 Resp: 334287

Ion Ratio Lower Upper

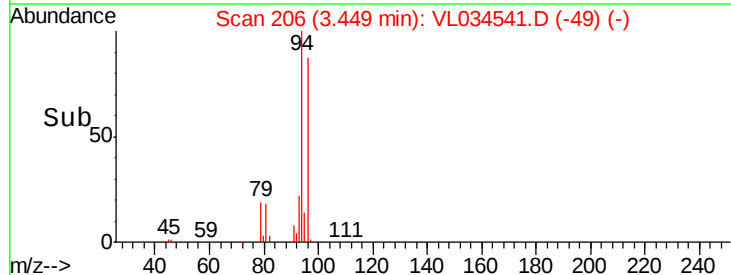
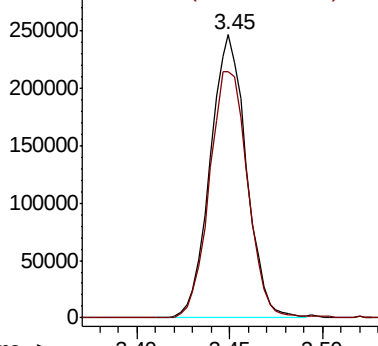
94 100

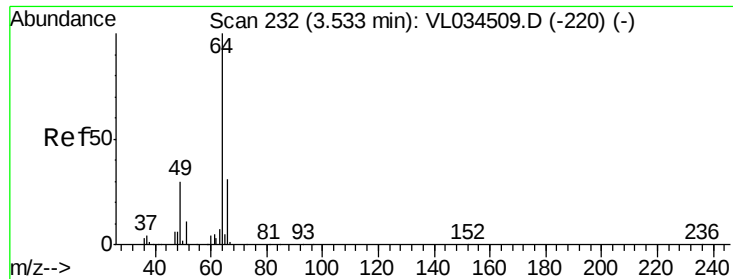
96 86.9 71.2 106.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.701 ppbv

RT: 3.53 min Scan# 232

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 235441

Ion Ratio Lower Upper

64 100

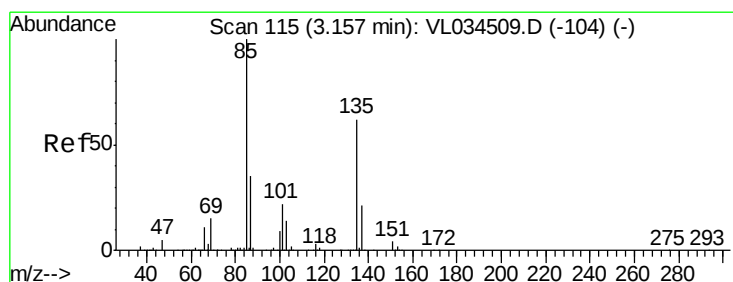
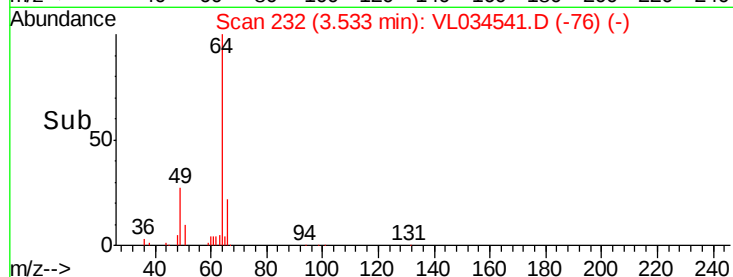
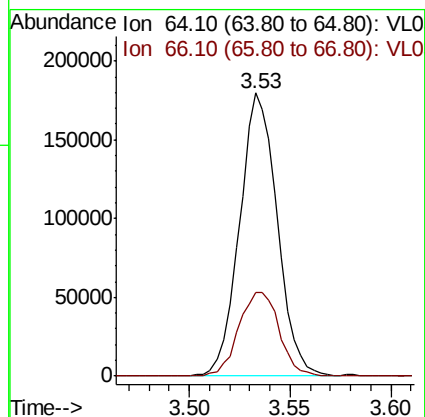
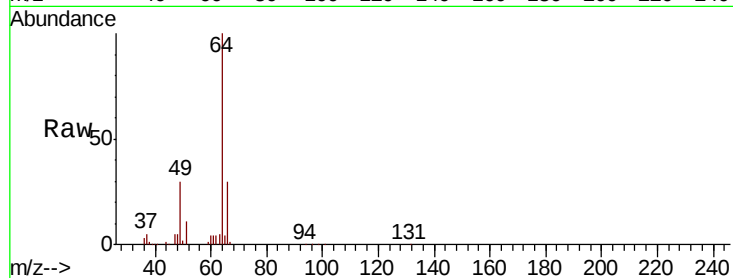
66 29.7 25.0 37.4

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#8

Dichlorotetrafluoroethane

Concen: 9.255 ppbv

RT: 3.16 min Scan# 116

Delta R.T. 0.00 min

Lab File: VL034541.D

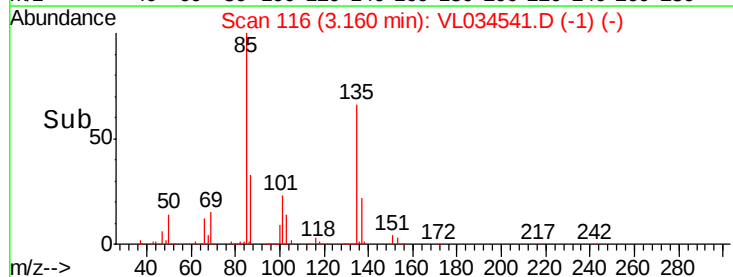
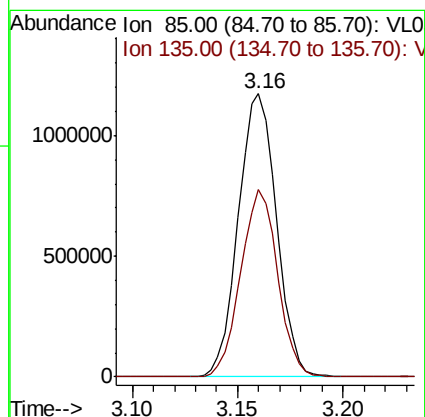
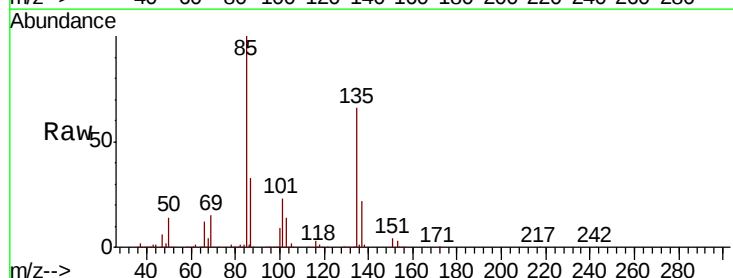
Acq: 31 Dec 2019 10:20

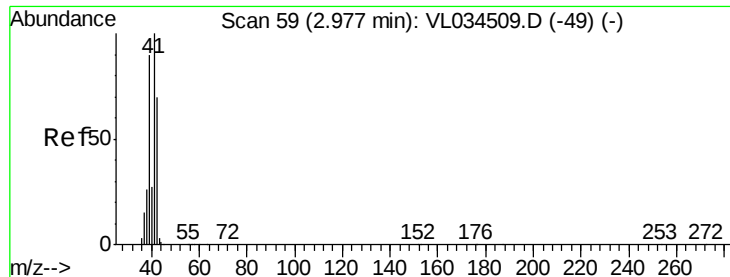
Tgt Ion: 85 Resp: 1471163

Ion Ratio Lower Upper

85 100

135 64.5 51.8 77.8





#9

Propene

Concen: 9.997 ppbv

RT: 2.98 min Scan# 60

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 461500

Ion Ratio Lower Upper

41 100

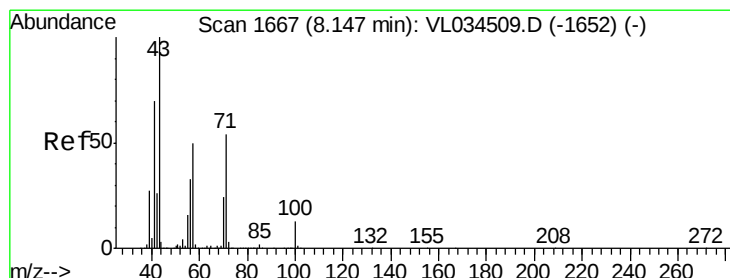
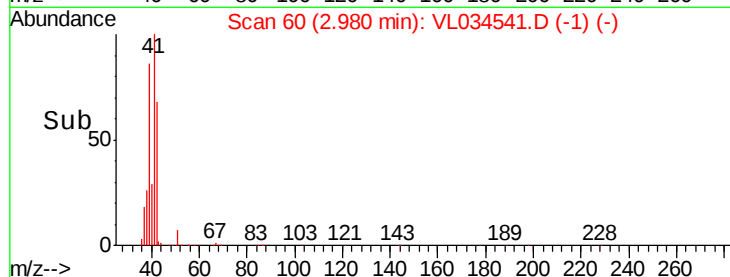
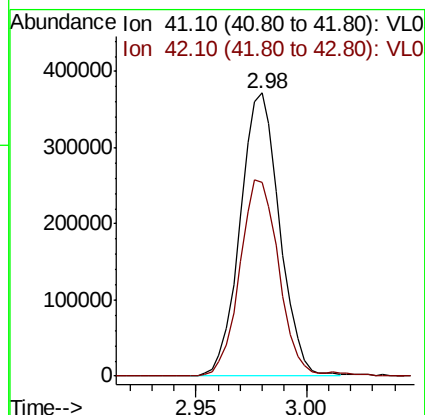
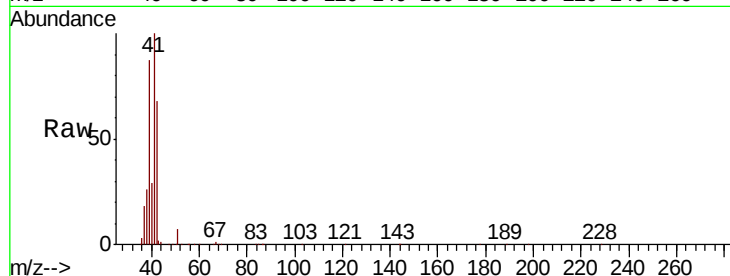
42 69.4 55.8 83.6

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#10

Heptane

Concen: 10.126 ppbv

RT: 8.15 min Scan# 1668

Delta R.T. 0.00 min

Lab File: VL034541.D

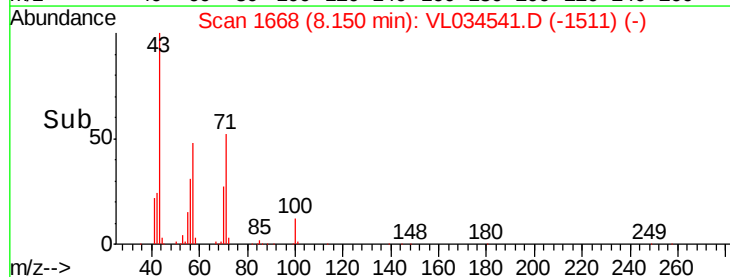
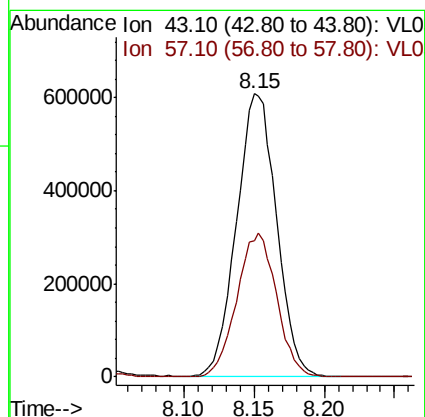
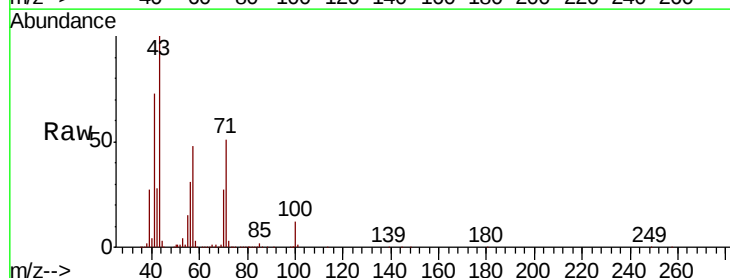
Acq: 31 Dec 2019 10:20

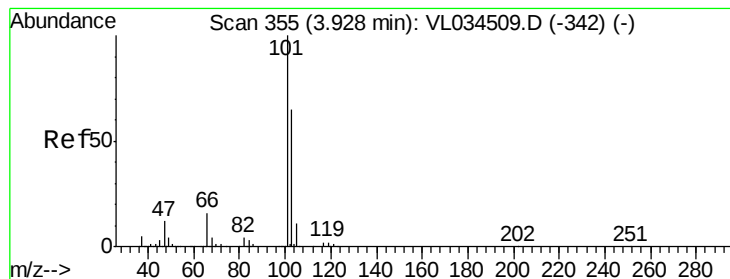
Tgt Ion: 43 Resp: 1207088

Ion Ratio Lower Upper

43 100

57 50.4 41.0 61.6





#11

Trichlorofluoromethane

Concen: 9.163 ppbv

RT: 3.93 min Scan# 357

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

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ClientSampleId :

VSTDCCC010EC

Tot Ion:101 Resp: 1680499

Ion Ratio Lower Upper

101 100

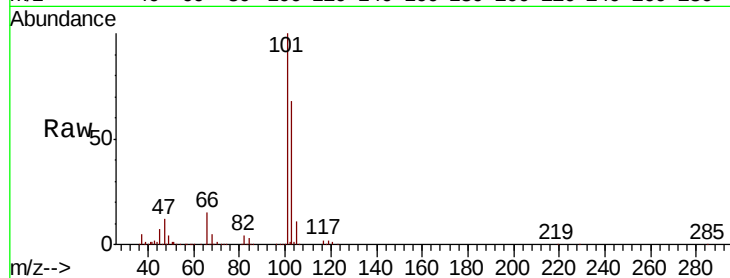
103 68.2 52.1 78.1

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.93

1200000

1000000

800000

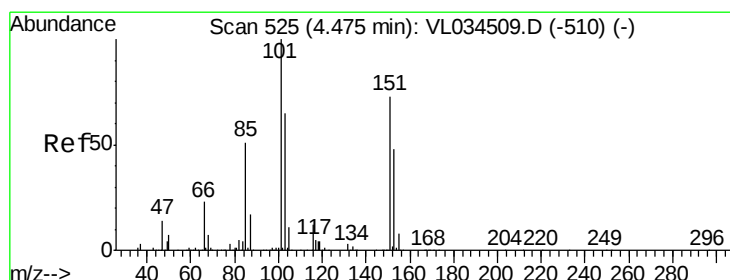
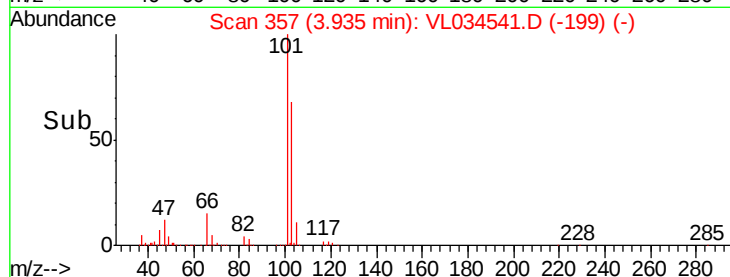
600000

400000

200000

0

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.762 ppbv

RT: 4.48 min Scan# 526

Delta R.T. 0.00 min

Lab File: VL034541.D

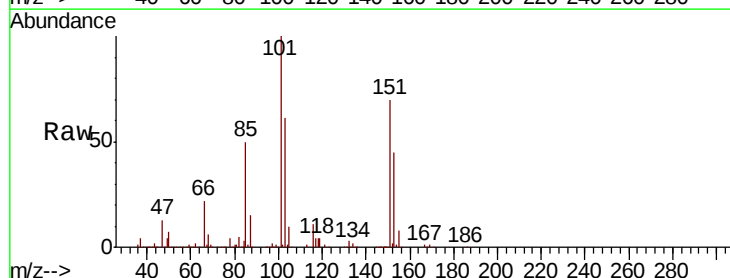
Acq: 31 Dec 2019 10:20

Tgt Ion:101 Resp: 1138776

Ion Ratio Lower Upper

101 100

151 70.0 57.8 86.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

4.48

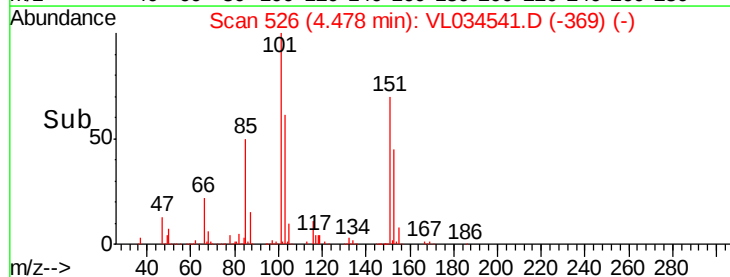
600000

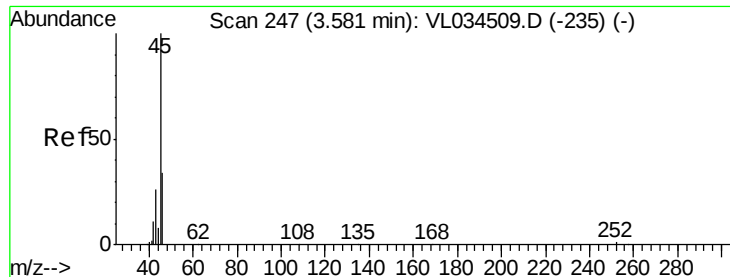
400000

200000

0

Time-->





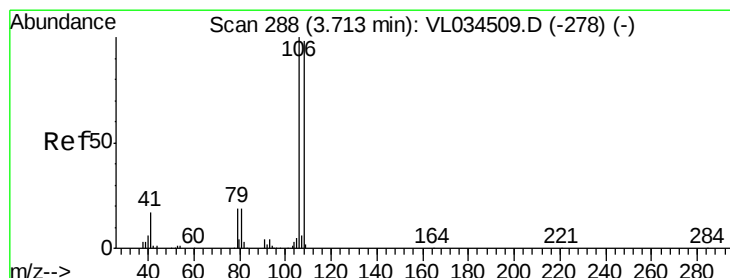
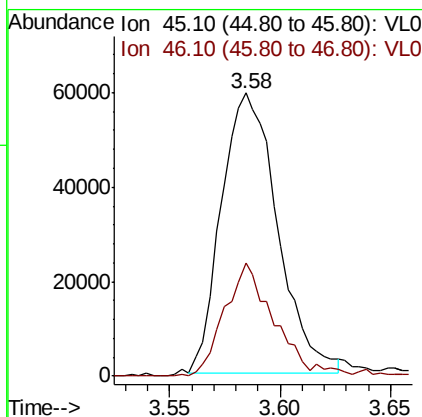
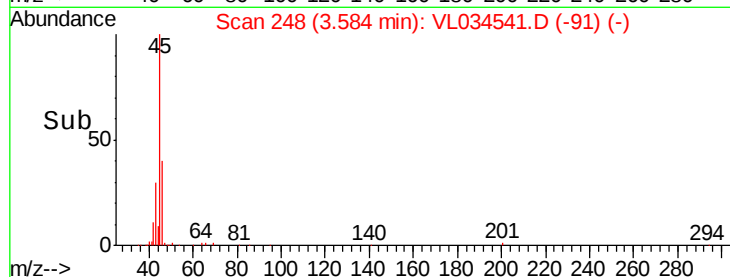
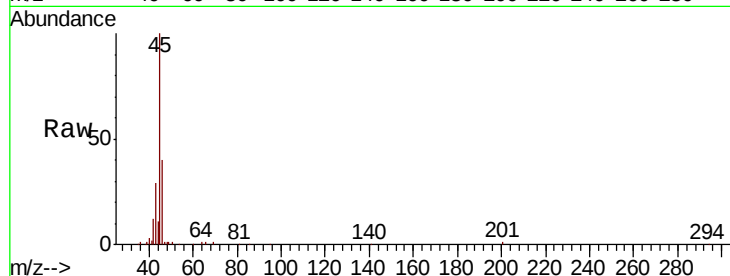
#13
Ethanol
Concen: 8.200 ppbv
RT: 3.58 min Scan# 248
Delta R.T. 0.00 min
Lab File: VL034541.D
Acq: 31 Dec 2019 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
45	100		
46	36.3	14.9	59.7

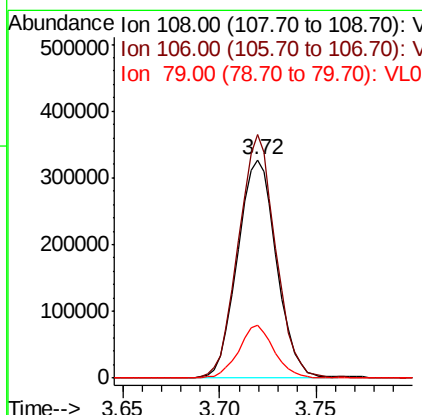
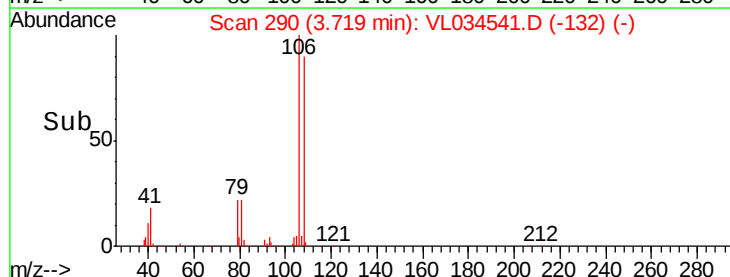
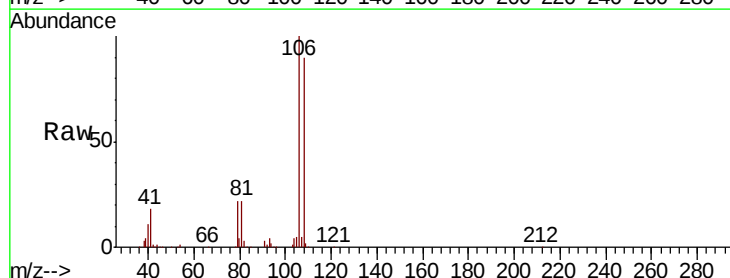
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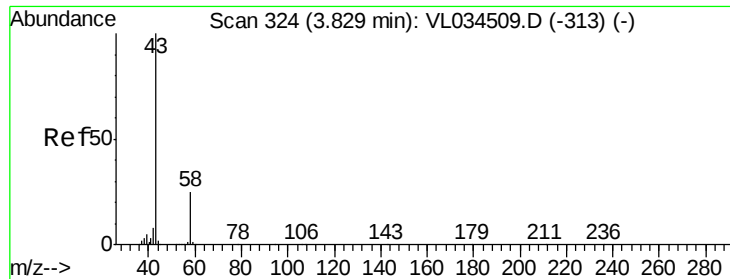
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#14
Bromoethene
Concen: 9.699 ppbv
RT: 3.72 min Scan# 290
Delta R.T. 0.01 min
Lab File: VL034541.D
Acq: 31 Dec 2019 10:20

Tgt Ion	Ratio	Lower	Upper
108	100		
106	107.4	85.2	127.8
79	22.4	17.4	26.2





#15

Acetone

Concen: 8.353 ppbv

RT: 3.83 min Scan# 325

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1225015

Ion Ratio Lower Upper

43 100

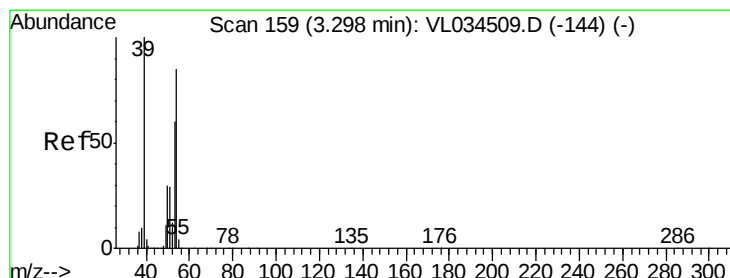
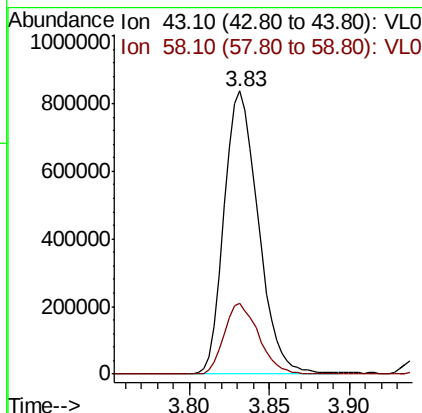
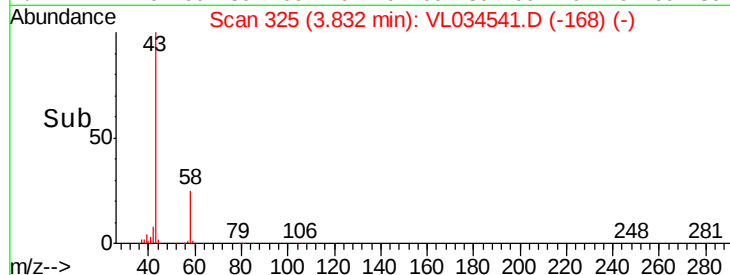
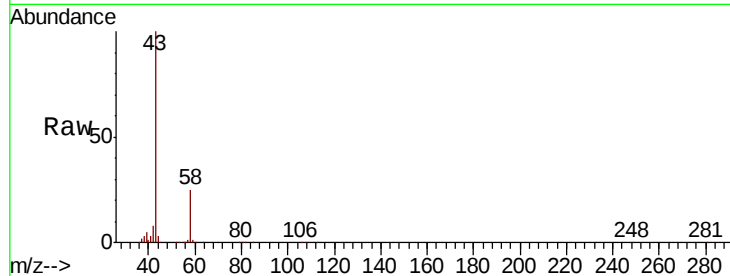
58 25.3 20.4 30.6

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#16

1,3-Butadiene

Concen: 10.114 ppbv

RT: 3.30 min Scan# 160

Delta R.T. 0.00 min

Lab File: VL034541.D

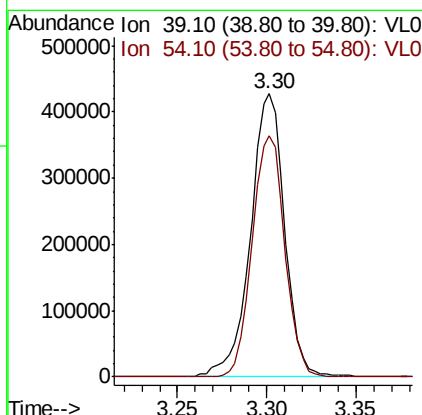
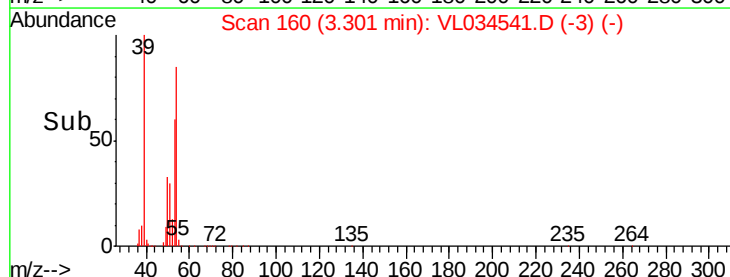
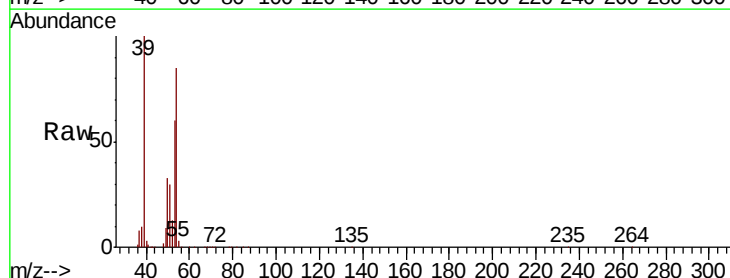
Acq: 31 Dec 2019 10:20

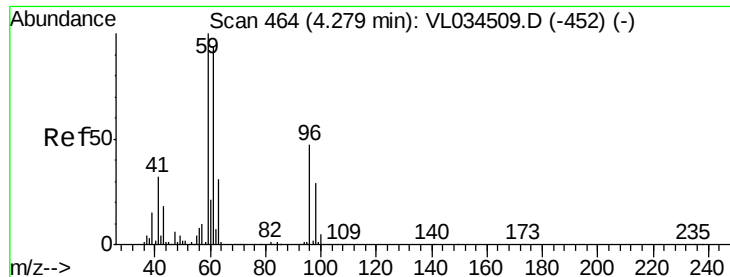
Tgt Ion: 39 Resp: 570473

Ion Ratio Lower Upper

39 100

54 82.4 66.2 99.2





#17

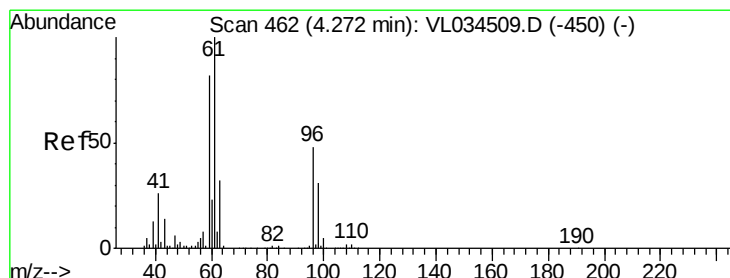
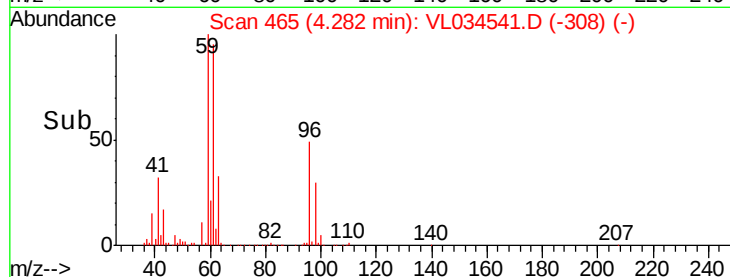
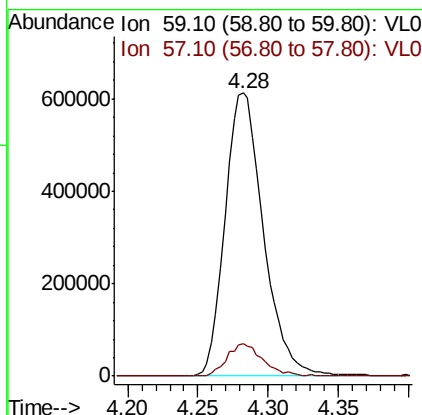
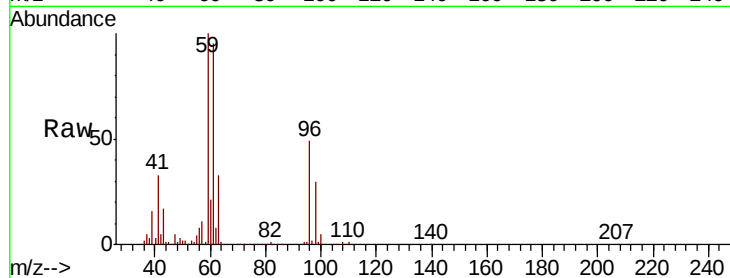
tert-Butyl alcohol
 Concen: 9.909 ppbv
 RT: 4.28 min Scan# 465
 Delta R.T. 0.00 min
 Lab File: VL034541.D
 Acq: 31 Dec 2019 10:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 59 Resp: 1163702
 Ion Ratio Lower Upper
 59 100
 57 11.0 8.6 12.8

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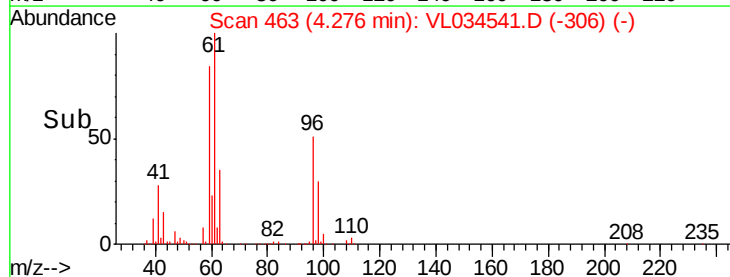
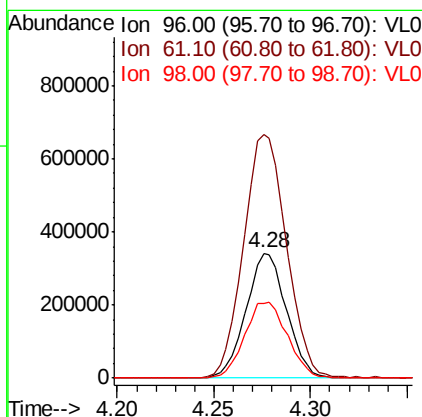
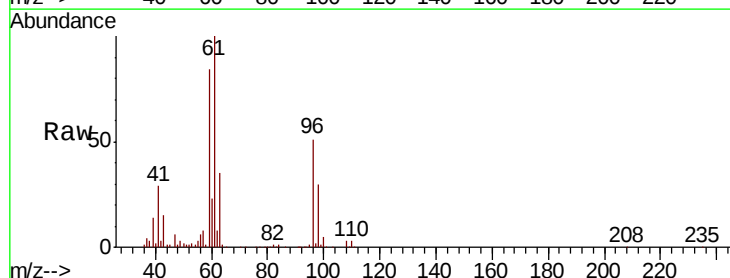
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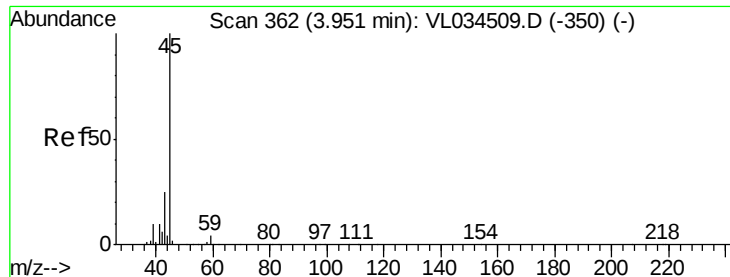


#18

1,1-Dichloroethene
 Concen: 9.772 ppbv
 RT: 4.28 min Scan# 463
 Delta R.T. 0.00 min
 Lab File: VL034541.D
 Acq: 31 Dec 2019 10:20

Tgt Ion: 96 Resp: 496540
 Ion Ratio Lower Upper
 96 100
 61 194.5 165.9 248.9
 98 59.3 51.9 77.9





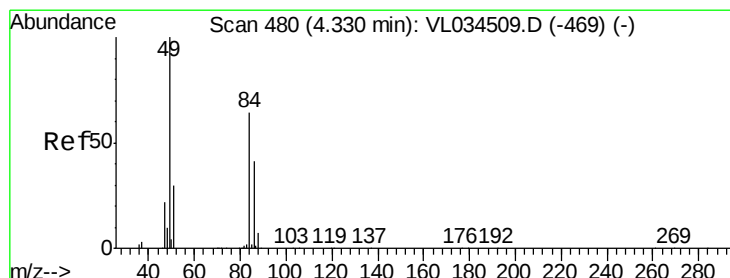
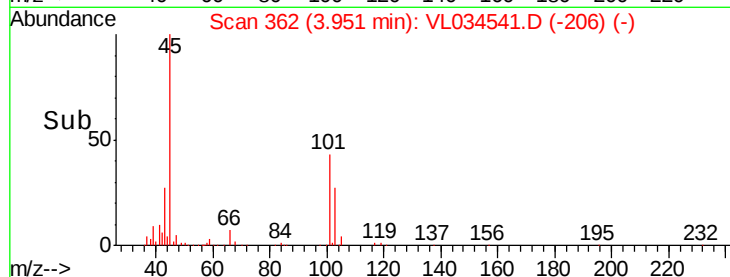
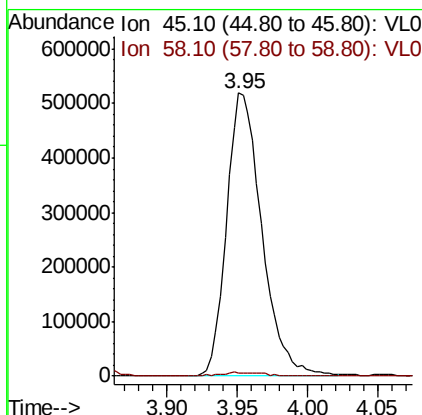
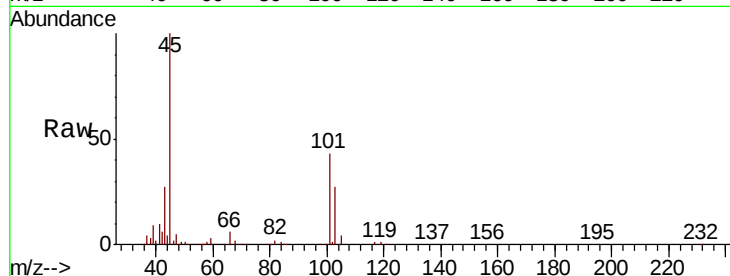
#19
Isopropyl Alcohol
Concen: 9.546 ppbv
RT: 3.95 min Scan# 362
Delta R.T. 0.00 min
Lab File: VL034541.D
Acq: 31 Dec 2019 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
45	100		
58	1.7	1.4	2.0

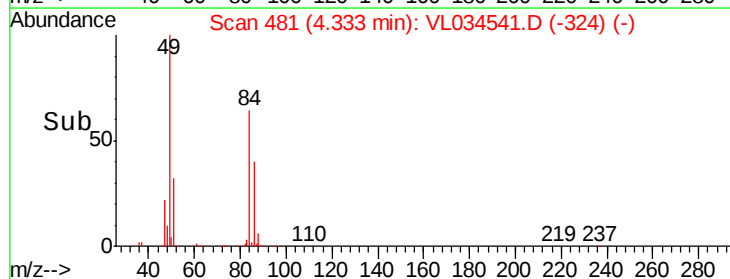
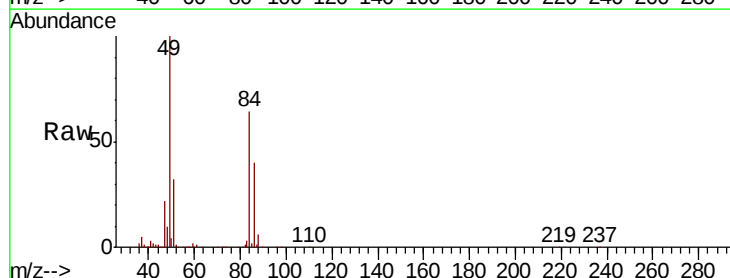
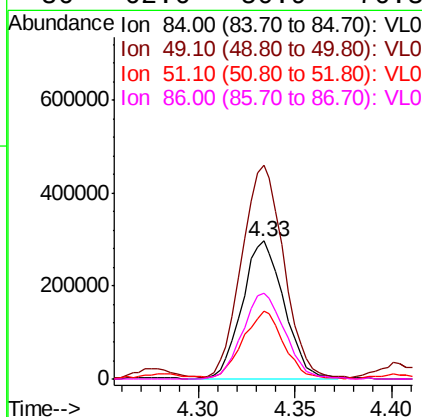
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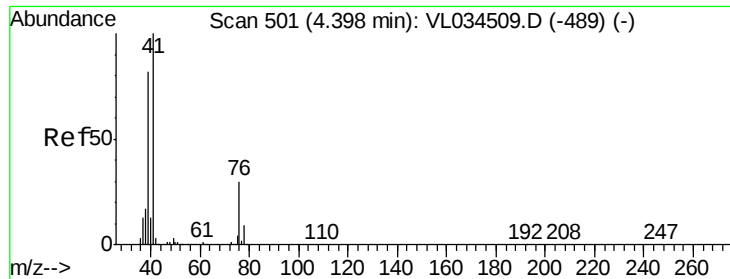
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#20
Methylene Chloride
Concen: 7.744 ppbv
RT: 4.33 min Scan# 481
Delta R.T. 0.00 min
Lab File: VL034541.D
Acq: 31 Dec 2019 10:20

Tgt Ion	Ratio	Lower	Upper
84	100		
49	153.3	124.4	186.6
51	48.6	37.0	55.6
86	62.6	50.9	76.3





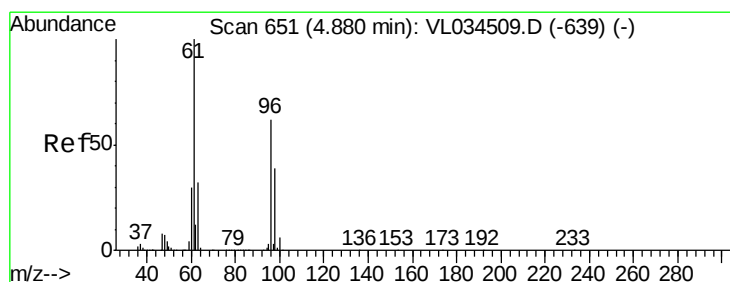
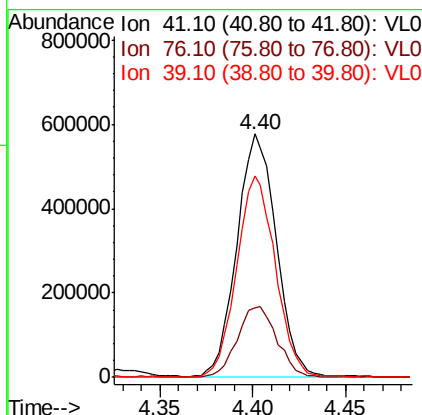
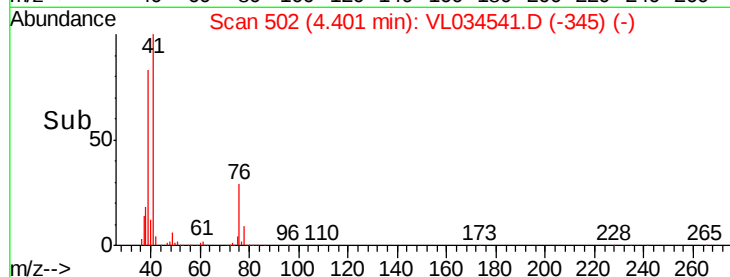
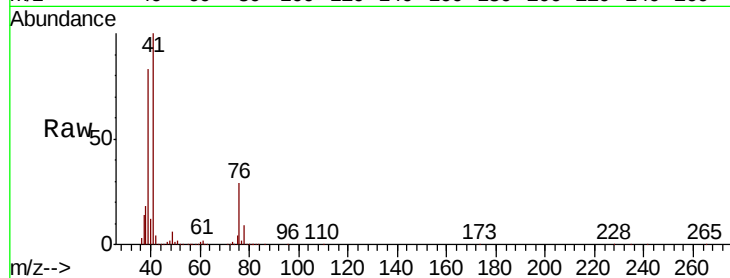
#21
Allvl Chloride
Concen: 10.086 ppbv
RT: 4.40 min Scan# 502
Delta R.T. 0.00 min
Lab File: VL034541.D
Acq: 31 Dec 2019 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	29.4	24.2	36.4
39	82.0	65.8	98.6

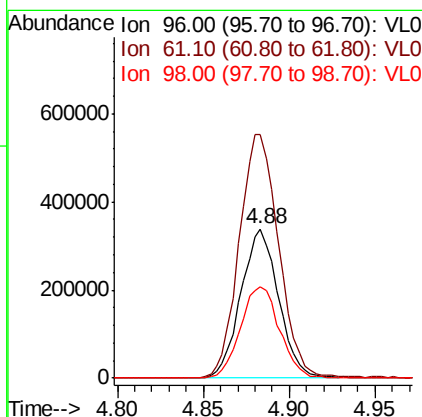
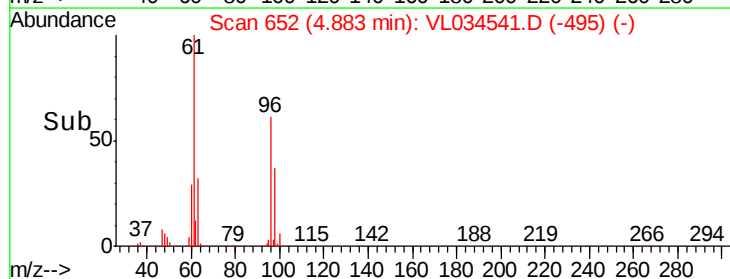
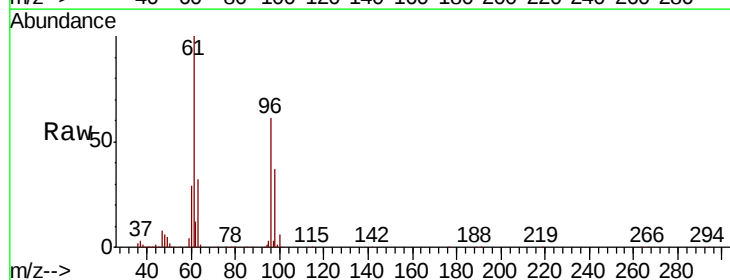
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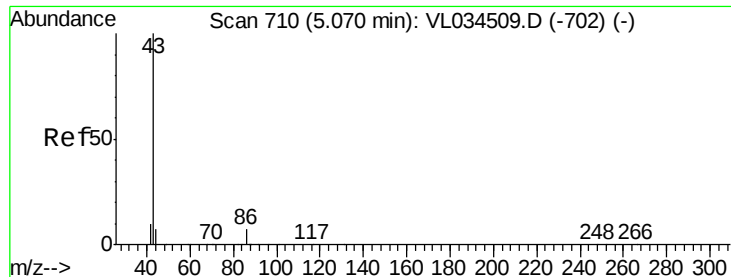
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#22
trans-1,2-Dichloroethene
Concen: 9.948 ppbv
RT: 4.88 min Scan# 652
Delta R.T. 0.00 min
Lab File: VL034541.D
Acq: 31 Dec 2019 10:20

Tgt Ion	Ratio	Lower	Upper
96	100		
61	162.9	128.4	192.6
98	60.9	50.6	75.8





#23

Vinyl Acetate

Concen: 10.169 ppbv

RT: 5.07 min Scan# 711

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1721799

Ion Ratio Lower Upper

43 100

86 6.4 5.4 8.2

42 10.7 8.9 13.3

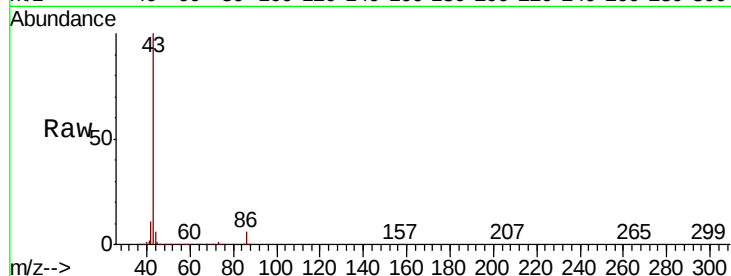
44 5.9 5.0 7.4

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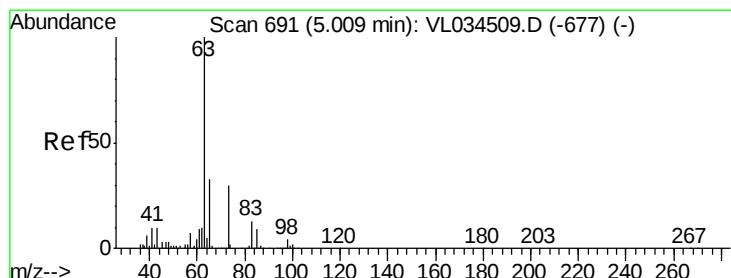
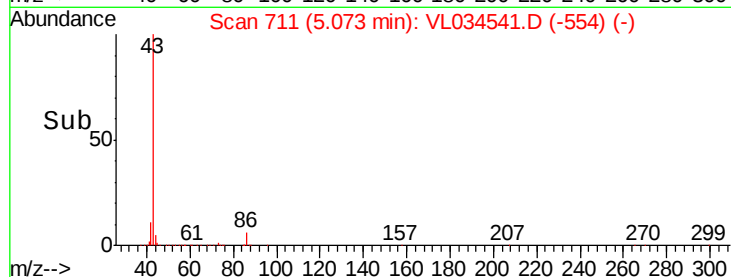
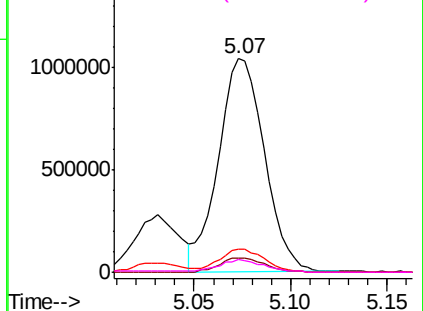


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.458 ppbv

RT: 5.01 min Scan# 692

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

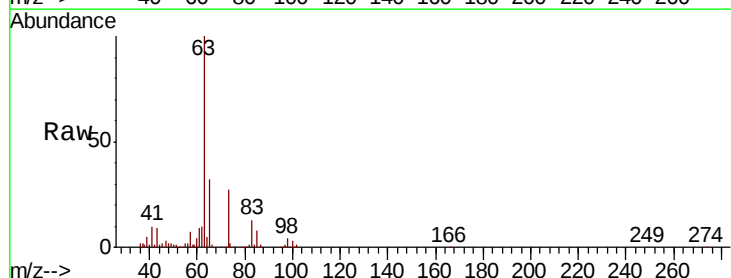
Tgt Ion: 63 Resp: 1286559

Ion Ratio Lower Upper

63 100

98 3.5 2.1 6.3

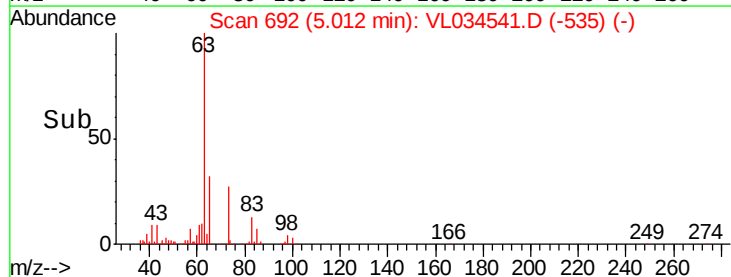
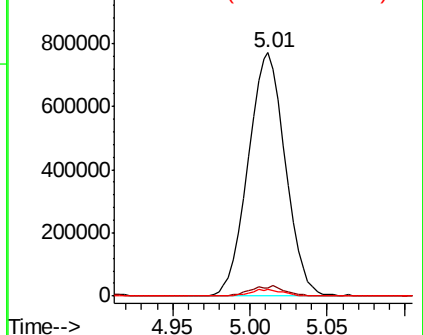
100 2.8 1.1 3.3

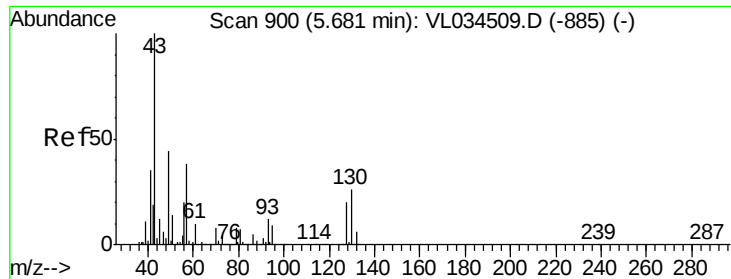


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.634 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2206591

Ion Ratio Lower Upper

43 100

45 10.3 8.3 12.5

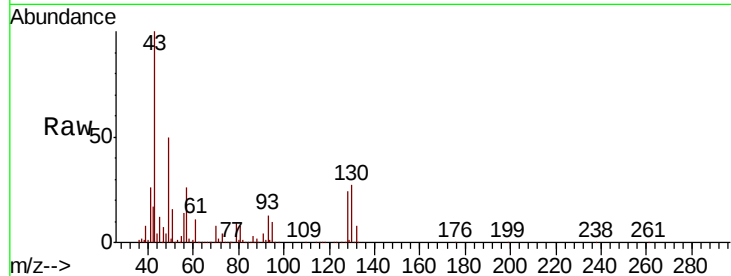
61 9.7 7.8 11.6

70 7.4 5.8 8.8

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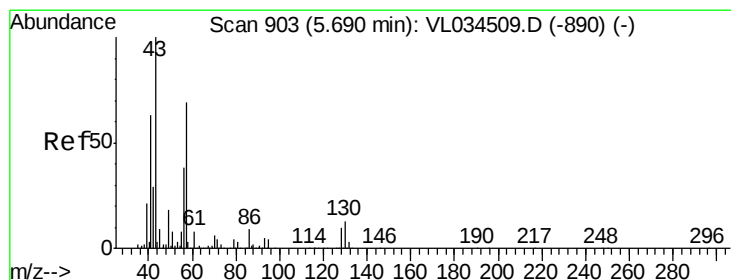
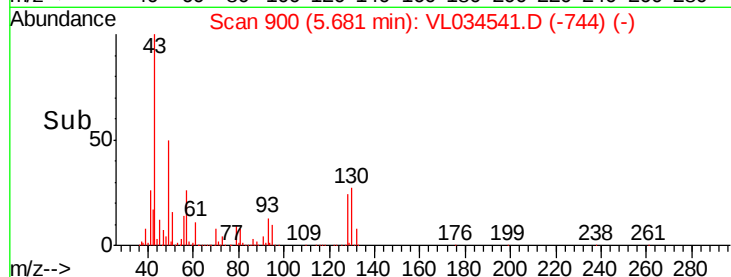
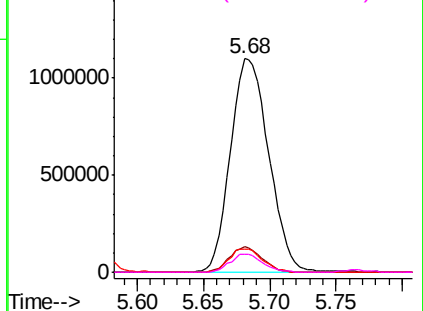
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 9.566 ppbv

RT: 5.69 min Scan# 904

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Tgt Ion: 57 Resp: 923244

Ion Ratio Lower Upper

57 100

41 94.5 75.3 112.9

43 240.8 189.4 284.2

56 53.9 42.8 64.2

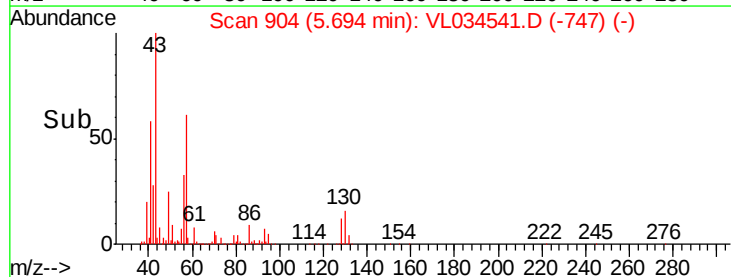
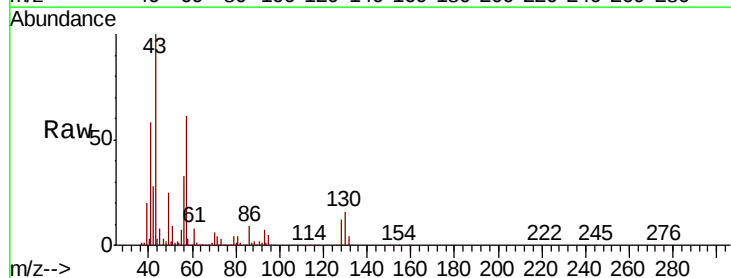
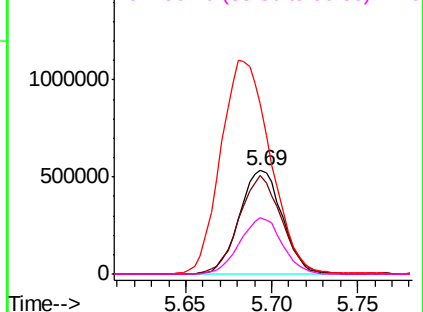
Abundance

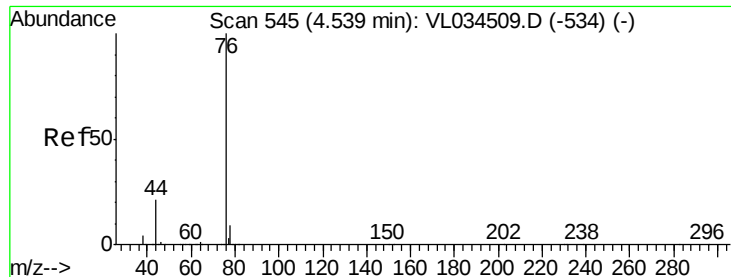
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 10.413 ppbv

RT: 4.54 min Scan# 546

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1270310

Ion Ratio Lower Upper

76 100

44 20.3 16.6 25.0

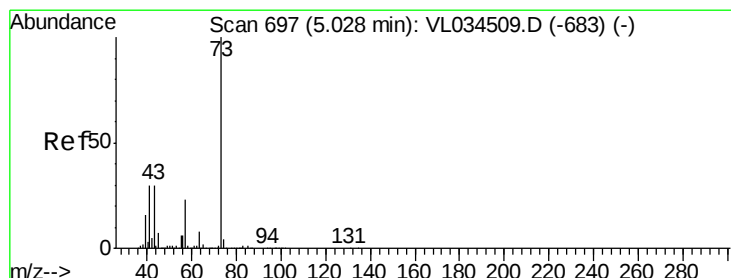
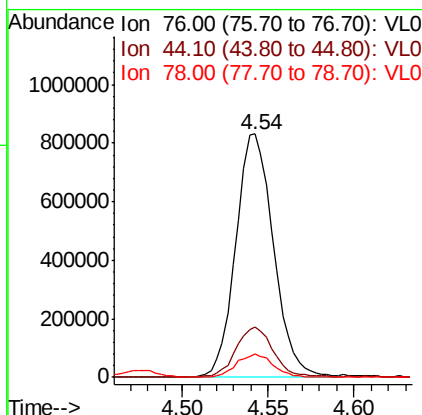
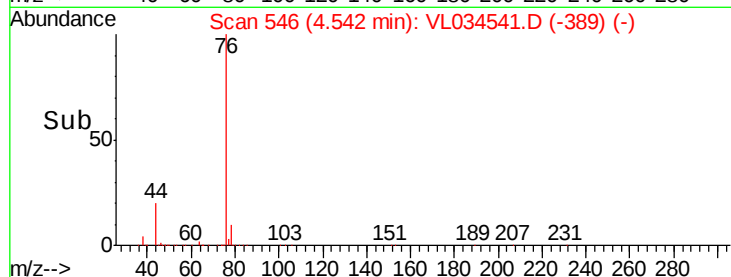
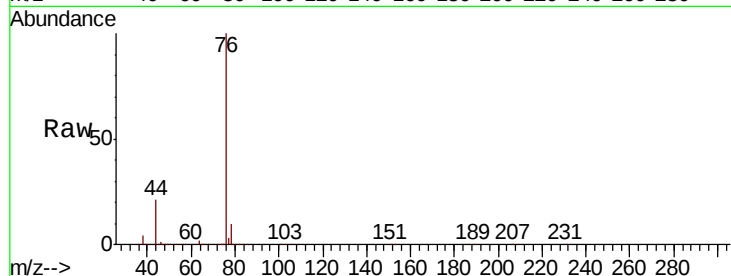
78 9.6 7.4 11.0

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#28

Methyl tert-Butyl Ether

Concen: 10.353 ppbv

RT: 5.03 min Scan# 698

Delta R.T. 0.00 min

Lab File: VL034541.D

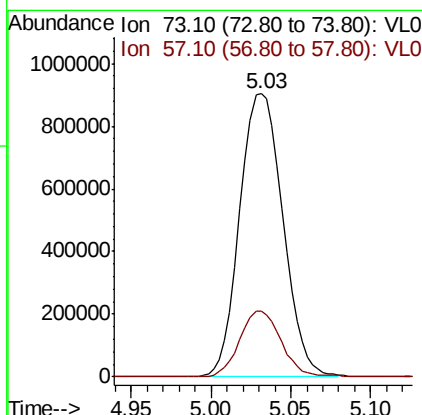
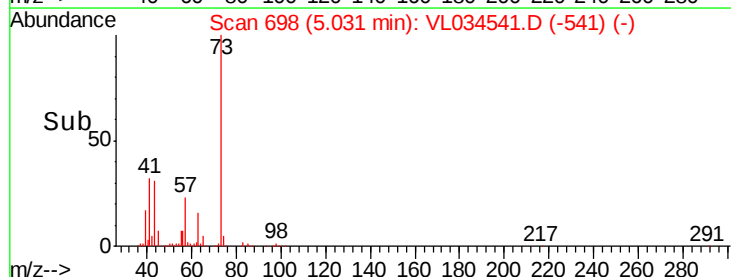
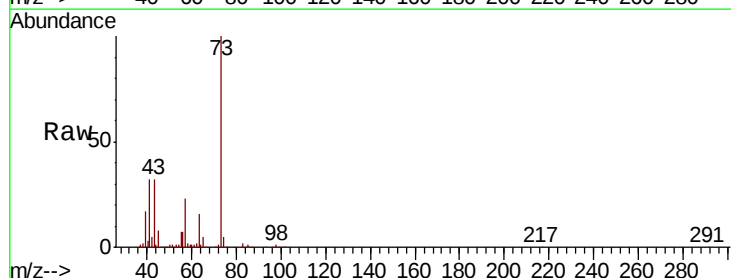
Acq: 31 Dec 2019 10:20

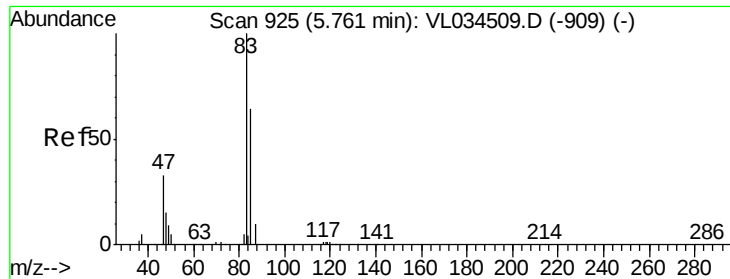
Tgt Ion: 73 Resp: 1668858

Ion Ratio Lower Upper

73 100

57 22.5 18.2 27.2





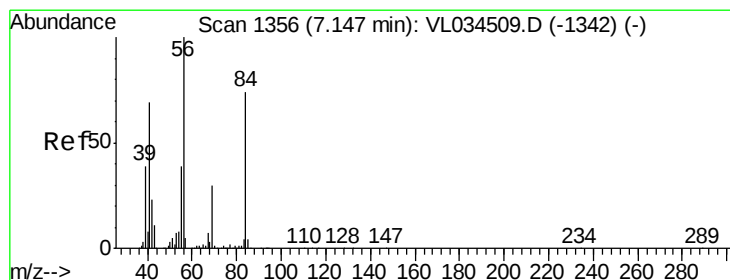
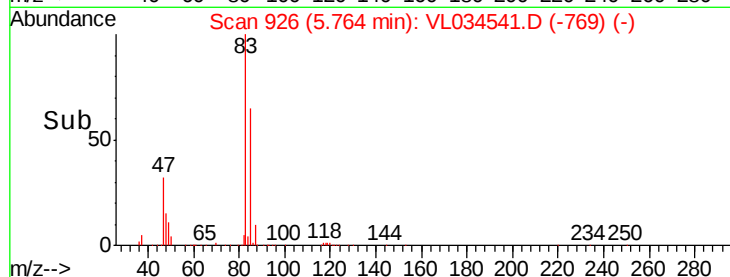
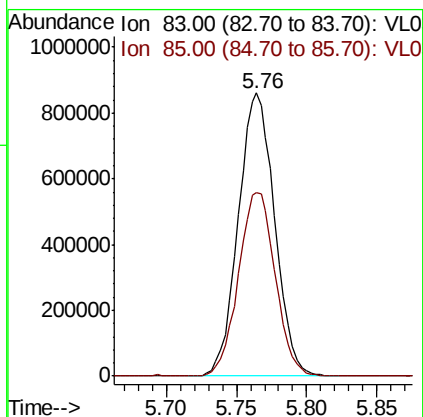
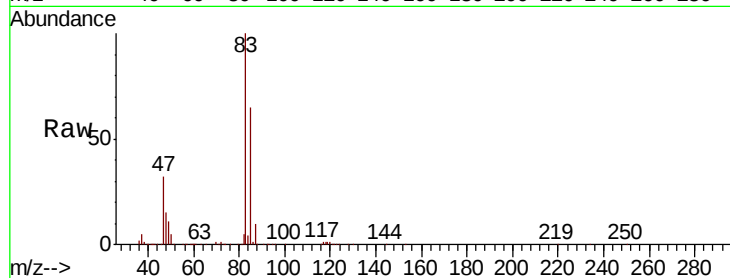
#29
Chloroform
Concen: 9.305 ppbv
RT: 5.76 min Scan# 926
Delta R.T. 0.00 min
Lab File: VL034541.D
Acq: 31 Dec 2019 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 1553867
Ion Ratio Lower Upper
83 100
85 64.7 51.0 76.6

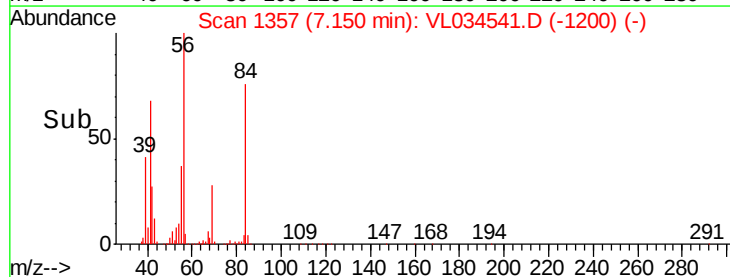
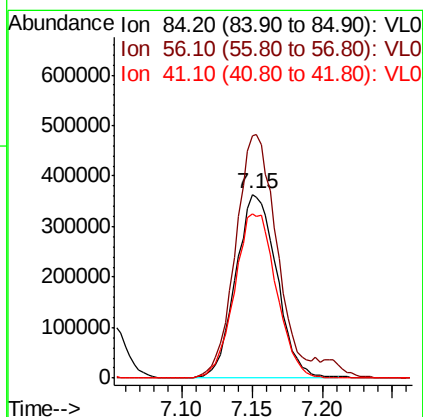
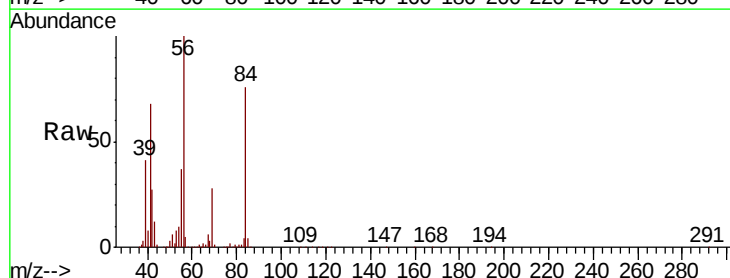
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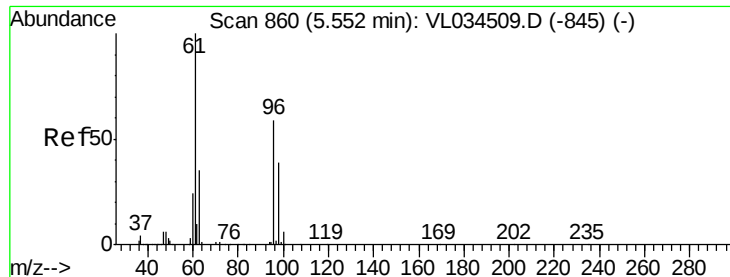
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#30
Cyclohexane
Concen: 10.318 ppbv
RT: 7.15 min Scan# 1357
Delta R.T. 0.00 min
Lab File: VL034541.D
Acq: 31 Dec 2019 10:20

Tgt Ion: 84 Resp: 740181
Ion Ratio Lower Upper
84 100
56 139.9 112.7 169.1
41 91.2 73.0 109.4





#31

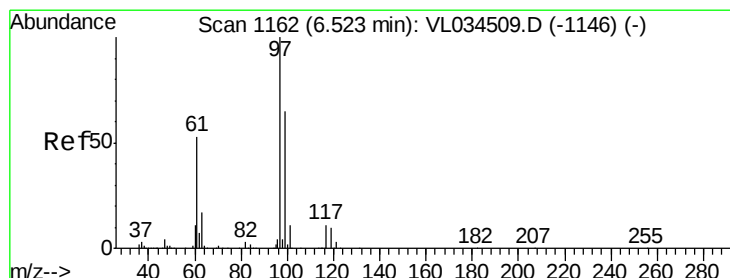
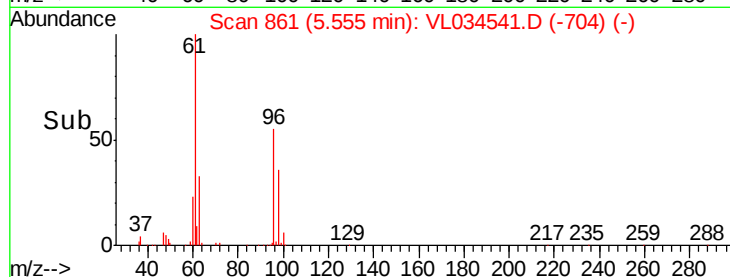
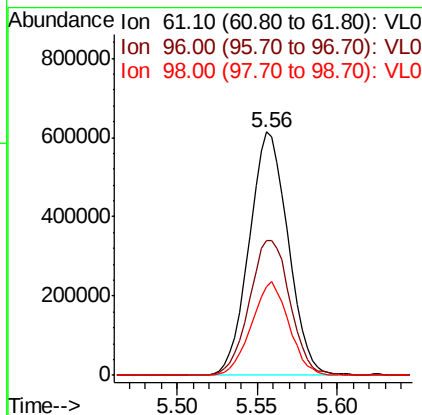
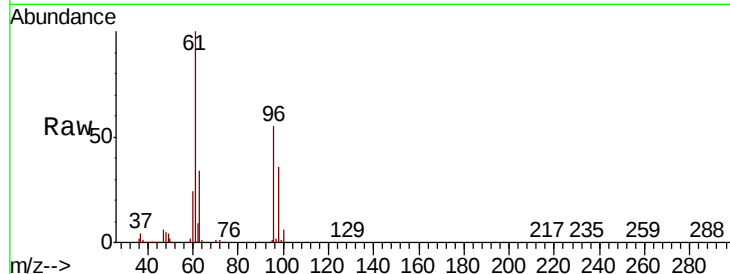
cis-1,2-Dichloroethene
 Concen: 10.417 ppbv
 RT: 5.56 min Scan# 861
 Delta R.T. 0.00 min
 Lab File: VL034541.D
 Acq: 31 Dec 2019 10:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	55.2	47.1	70.7
98	36.3	31.0	46.6

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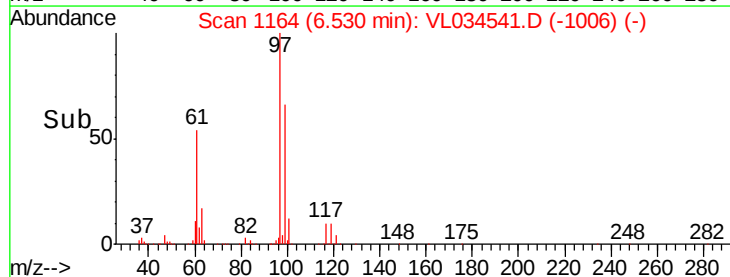
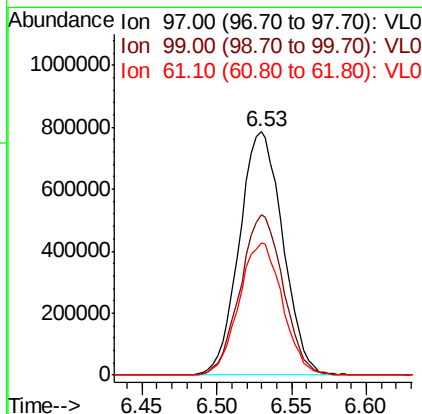
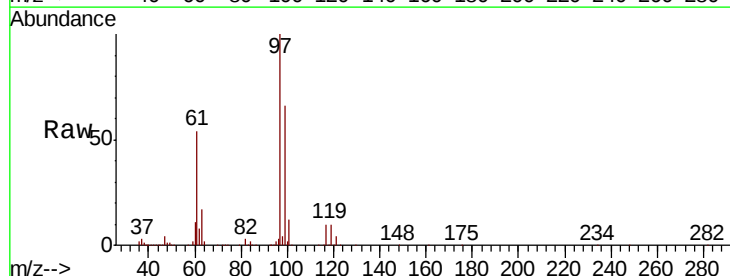
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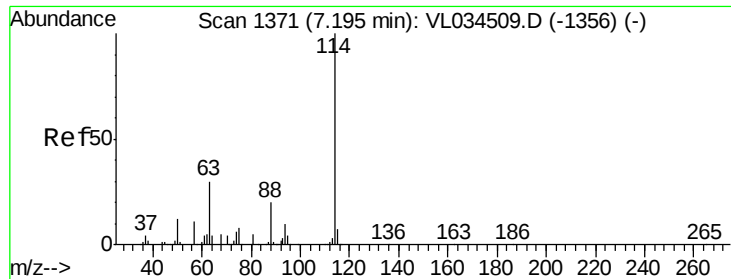


#32

1,1,1-Trichloroethane
 Concen: 9.172 ppbv
 RT: 6.53 min Scan# 1164
 Delta R.T. 0.01 min
 Lab File: VL034541.D
 Acq: 31 Dec 2019 10:20

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.1	51.7	77.5
61	54.3	42.9	64.3





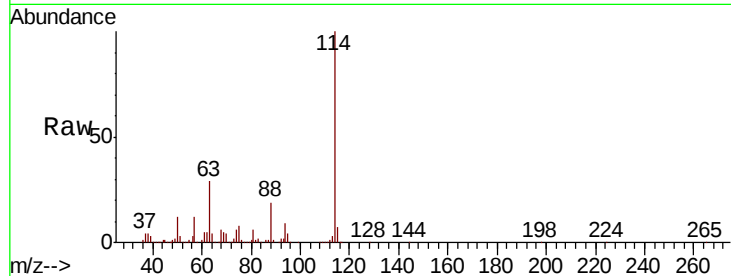
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1373
 Delta R.T. 0.01 min
 Lab File: VL034541.D
 Acq: 31 Dec 2019 10:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

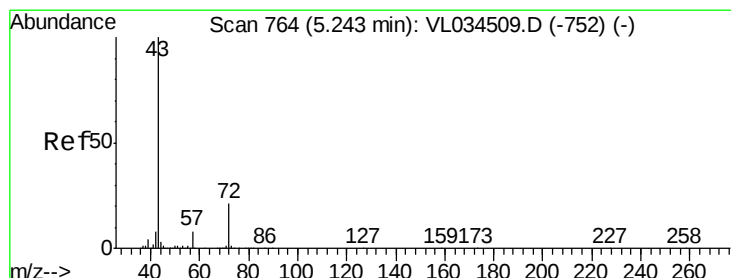
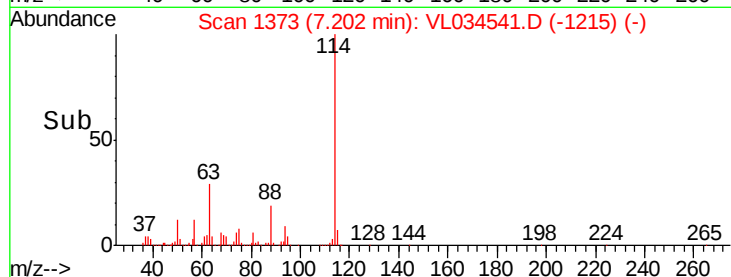
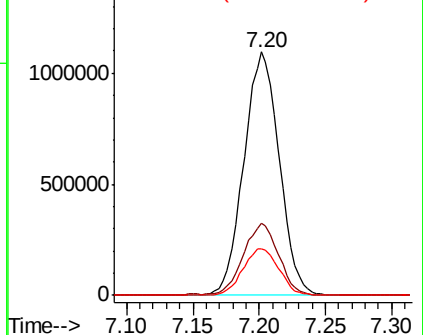
Tot Ion	Ratio	Lower	Upper
114	100		
63	29.8	24.1	36.1
88	19.4	15.7	23.5

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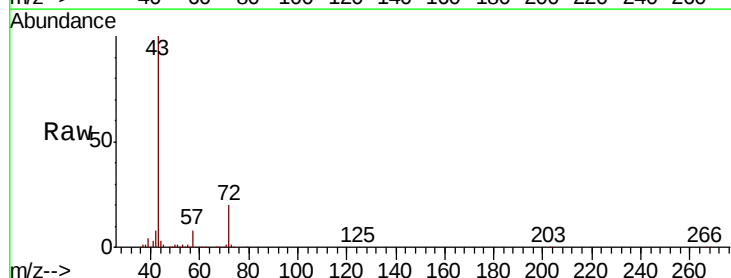


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

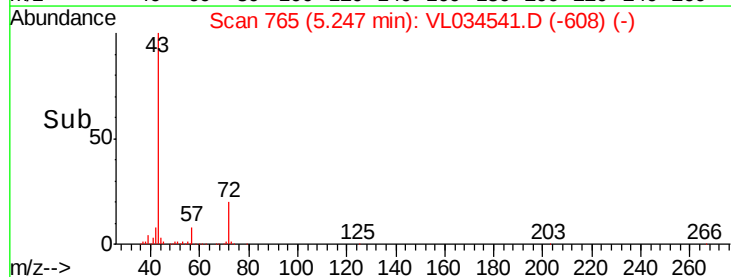
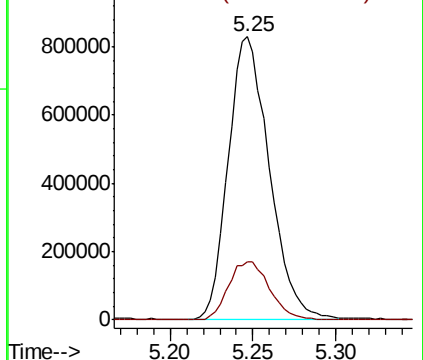


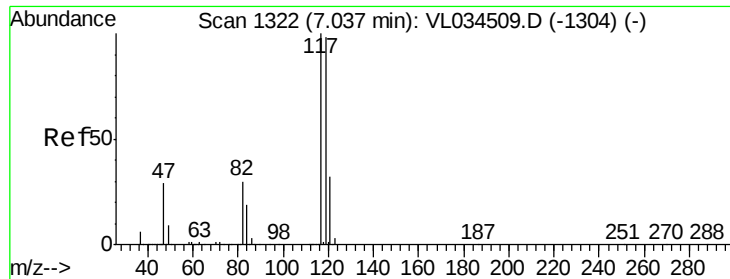
#34
 2-Butanone
 Concen: 9.777 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T. 0.00 min
 Lab File: VL034541.D
 Acq: 31 Dec 2019 10:20

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.8	17.0	25.4



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 9.219 ppbv

RT: 7.04 min Scan# 1323

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

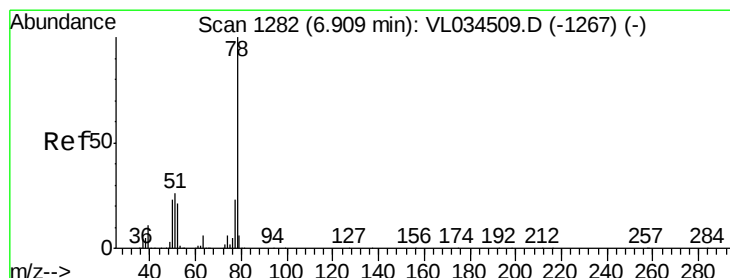
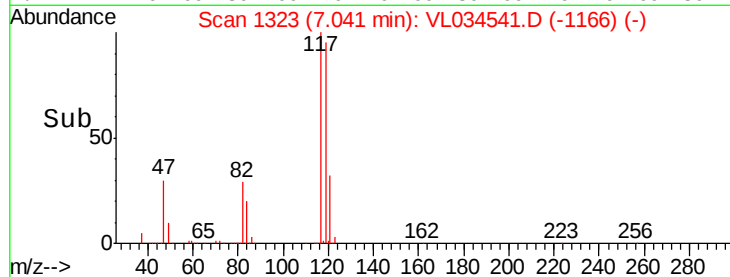
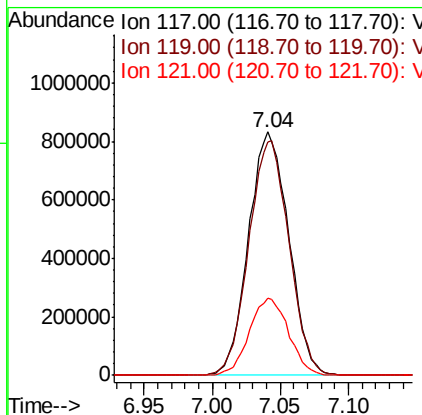
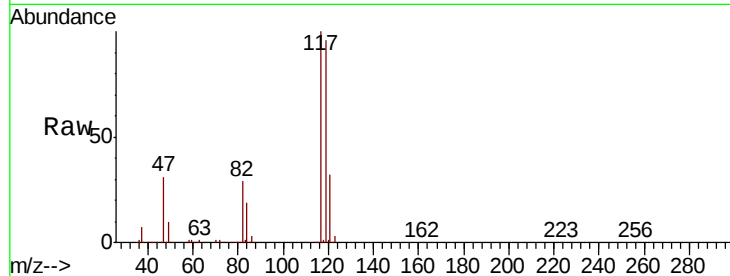
ClientSampleId :

VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
119	96.1	78.7	118.1
121	31.8	25.9	38.9

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#36

Benzene

Concen: 9.942 ppbv

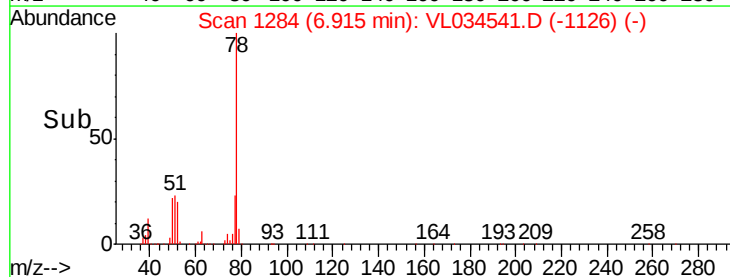
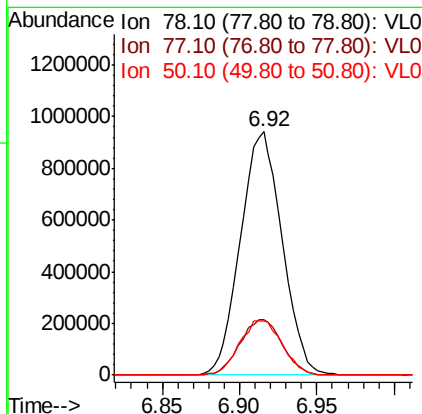
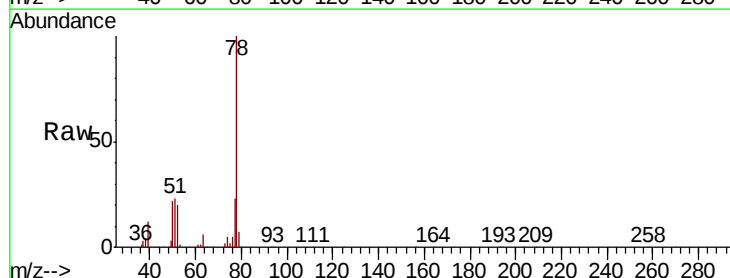
RT: 6.92 min Scan# 1284

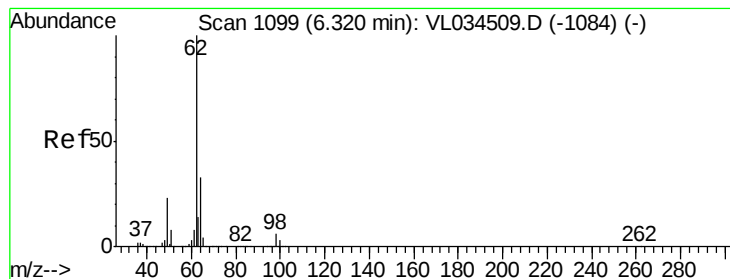
Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.6	18.6	28.0
50	22.2	18.8	28.2





#37

1,2-Dichloroethane

Concen: 9.410 ppbv

RT: 6.32 min Scan# 1100

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 1356293

Ion Ratio Lower Upper

62 100

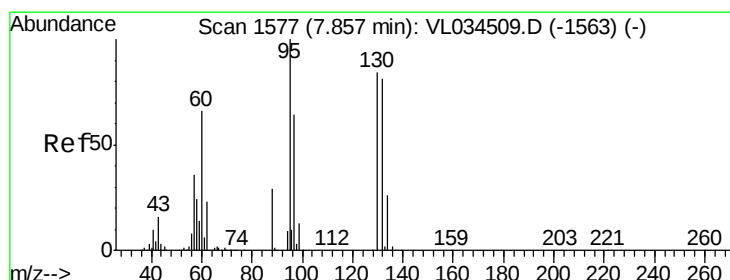
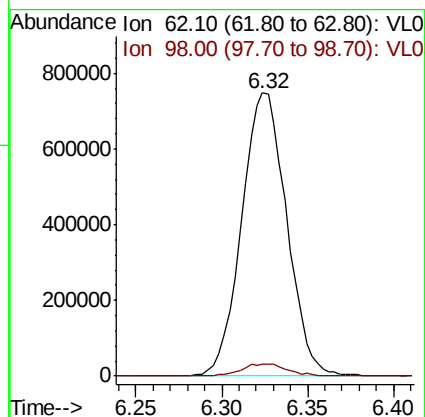
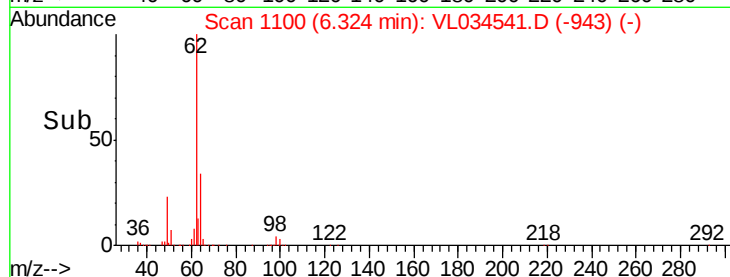
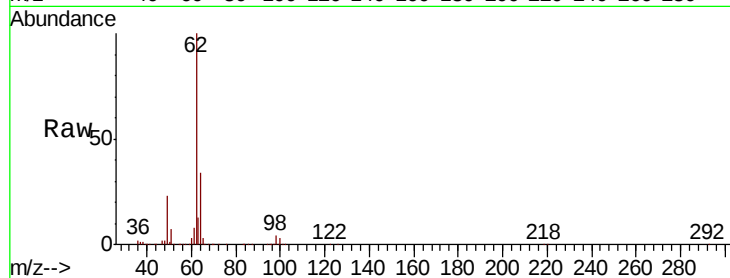
98 4.5 3.8 5.6

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#38

Trichloroethene

Concen: 10.089 ppbv

RT: 7.87 min Scan# 1580

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Tgt Ion: 130 Resp: 723353

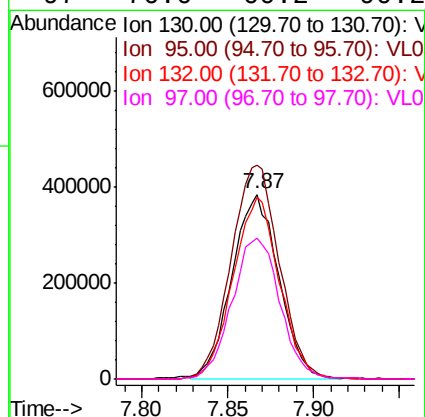
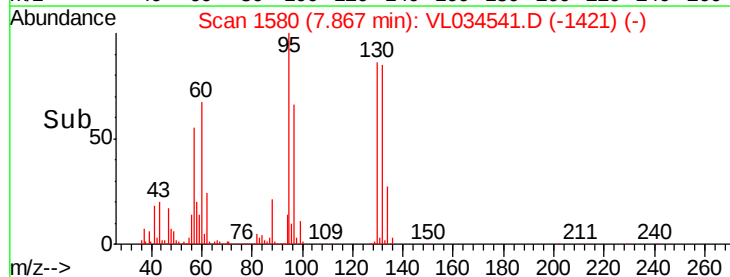
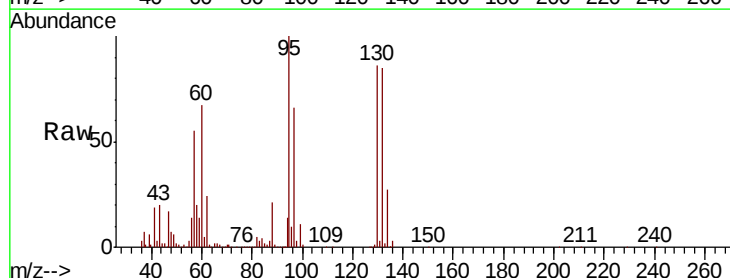
Ion Ratio Lower Upper

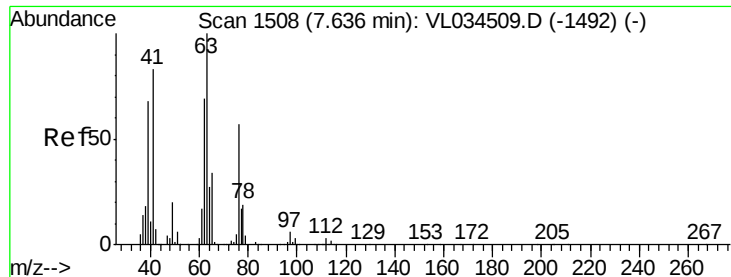
130 100

95 115.4 94.2 141.2

132 98.1 76.1 114.1

97 76.0 60.2 90.2





#39

1,2-Dichloropropane

Concen: 9.986 ppbv

RT: 7.64 min Scan# 1510

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

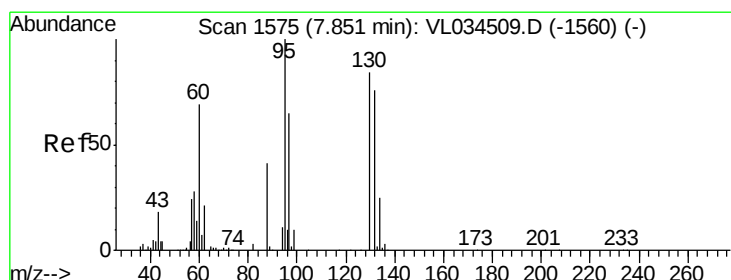
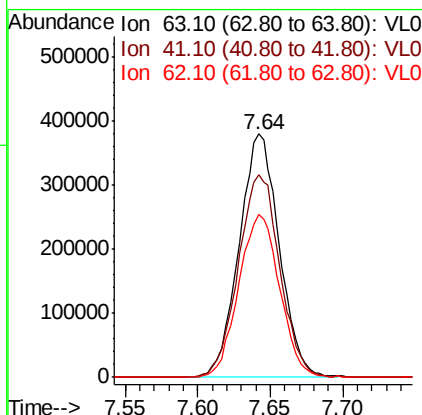
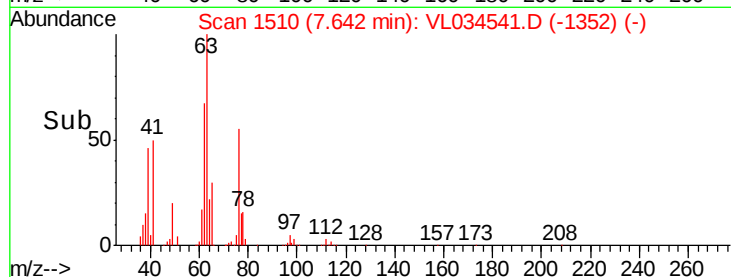
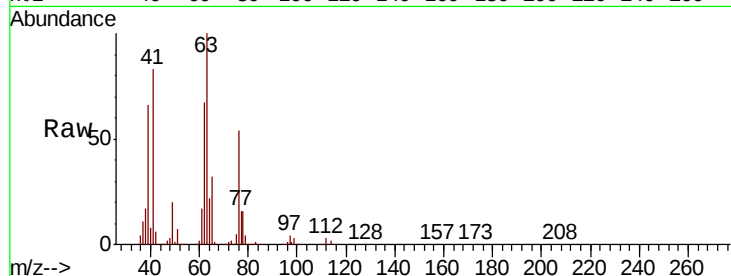
ClientSampleId :

VSTDCCC010EC

Tot Ion:	63	Resp:	728784
Ion Ratio	Lower	Upper	
63	100		
41	83.1	66.1	99.1
62	67.1	54.9	82.3

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#40

1,4-Dioxane

Concen: 9.746 ppbv

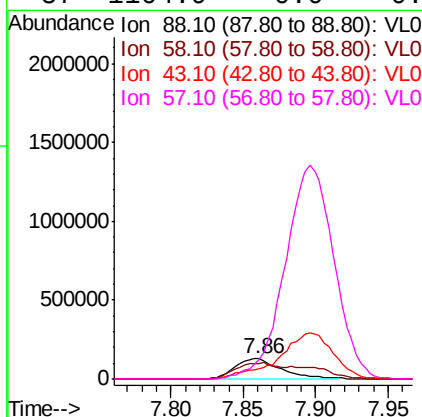
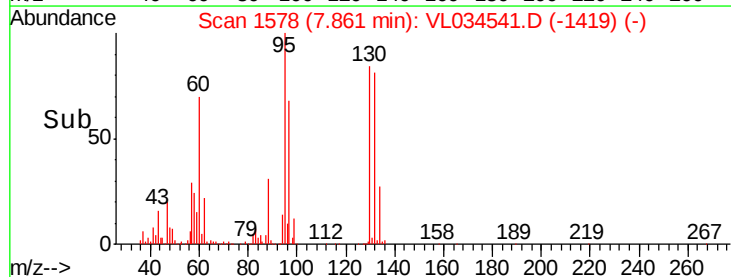
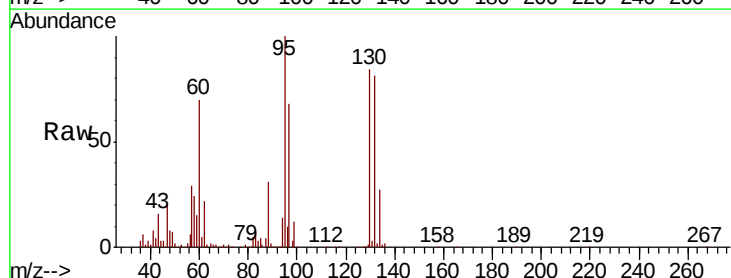
RT: 7.86 min Scan# 1578

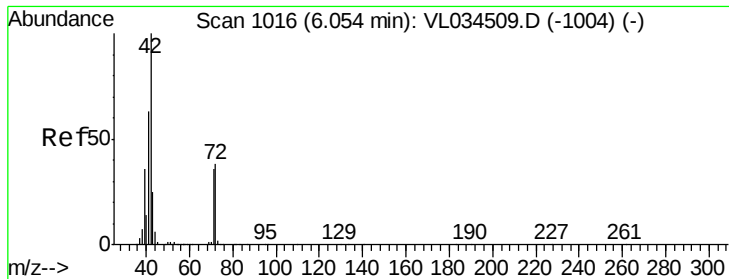
Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Tgt Ion:	88	Resp:	287858
Ion Ratio	Lower	Upper	
88	100		
58	130.7	107.9	161.9
43	266.0	0.0	0.0#
57	1104.9	0.0	0.0#





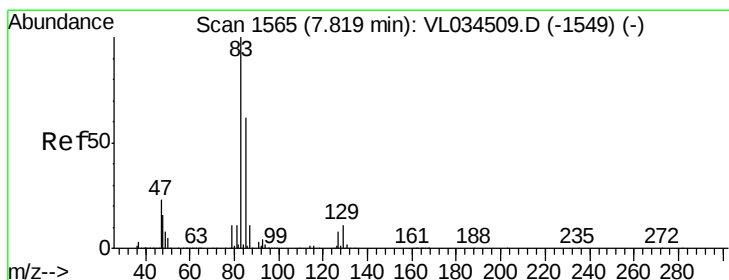
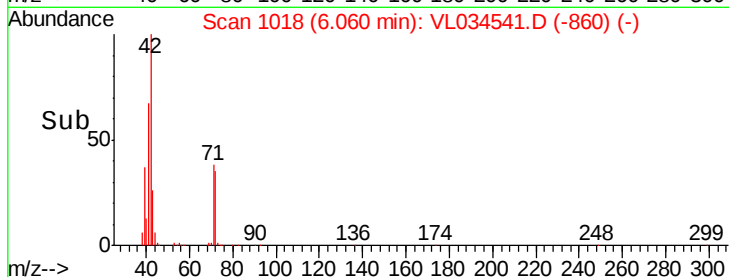
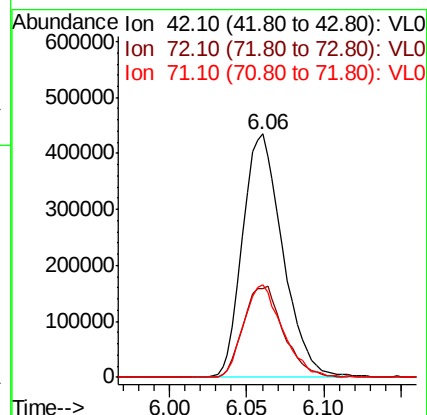
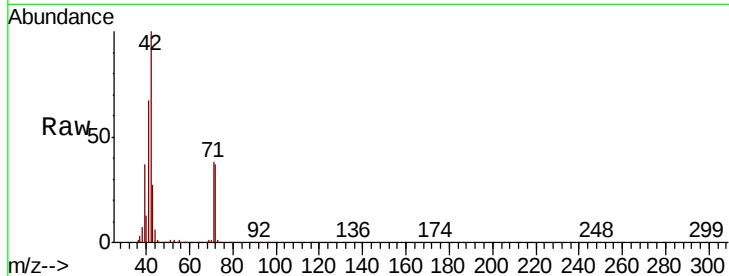
#41
Tetrahydrofuran
Concen: 10.492 ppbv
RT: 6.06 min Scan# 1018
Delta R.T. 0.01 min
Lab File: VL034541.D
Acq: 31 Dec 2019 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.6	30.9	46.3
71	37.0	28.9	43.3

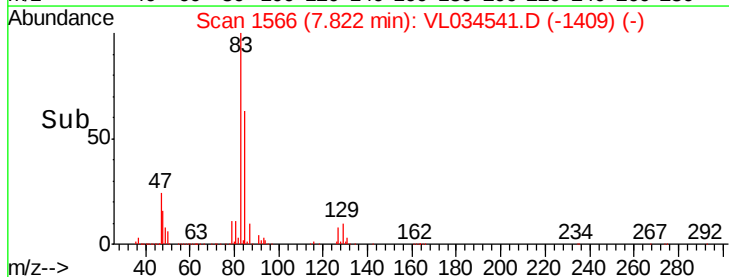
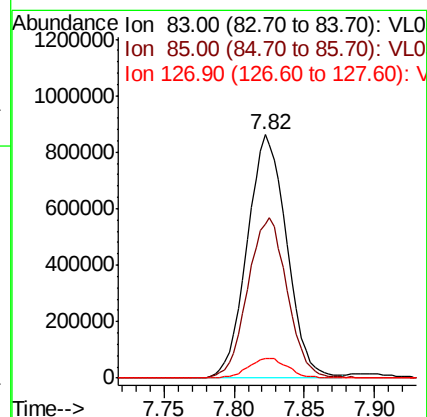
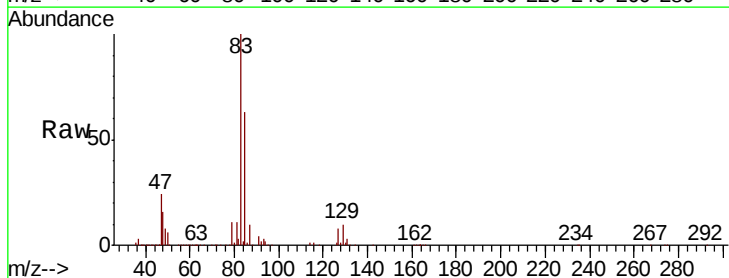
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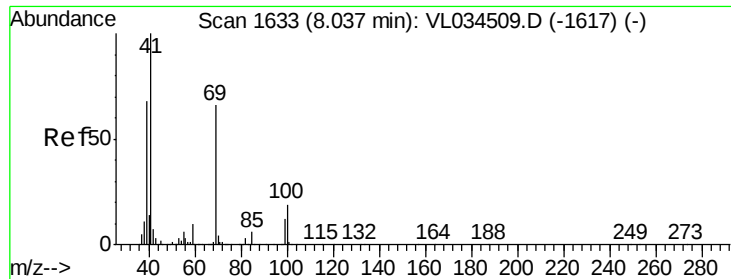
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#42
Bromodichloromethane
Concen: 9.560 ppbv
RT: 7.82 min Scan# 1566
Delta R.T. 0.00 min
Lab File: VL034541.D
Acq: 31 Dec 2019 10:20

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.2	49.4	74.2
127	8.1	6.2	9.4





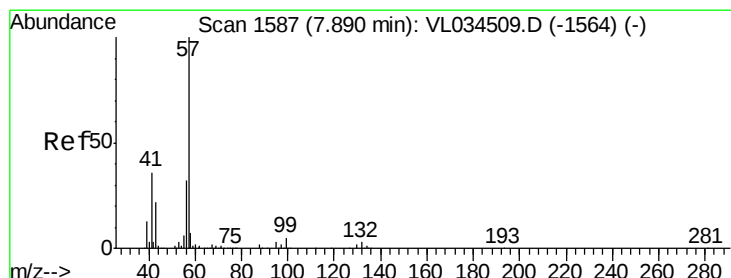
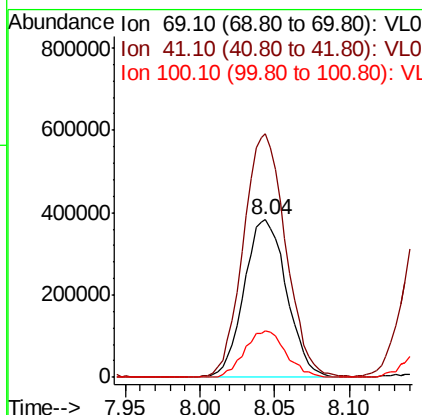
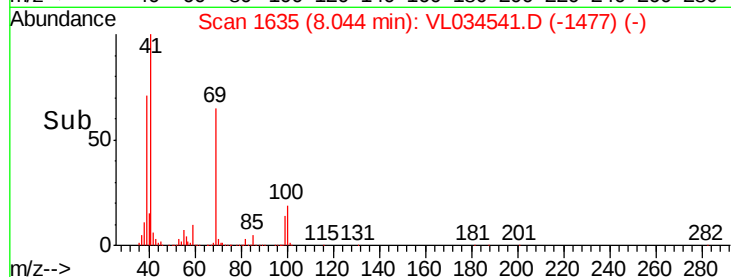
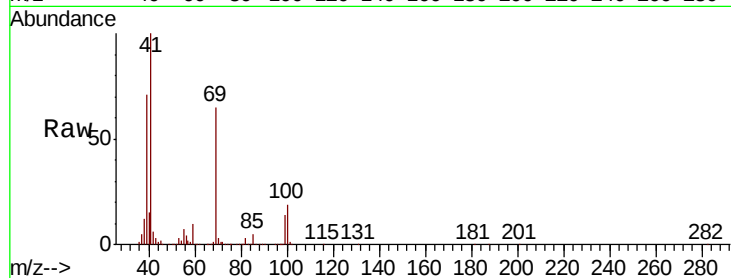
#43
Methvl Methacrlyate
Concen: 10.474 ppbv
RT: 8.04 min Scan# 1635
Delta R.T. 0.01 min
Lab File: VL034541.D
Acq: 31 Dec 2019 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
69	100		
41	153.4	124.0	186.0
100	28.8	23.1	34.7

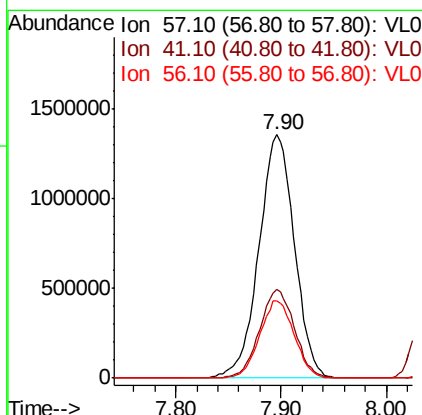
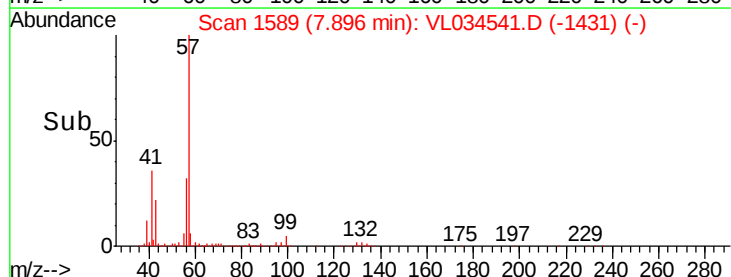
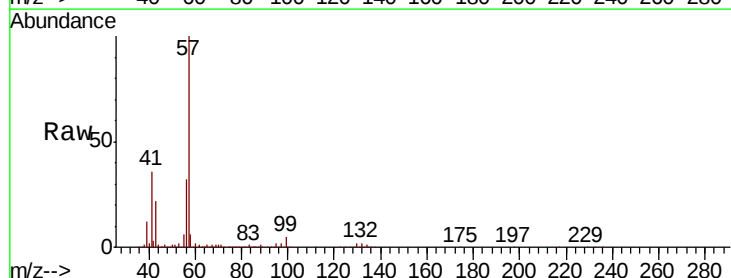
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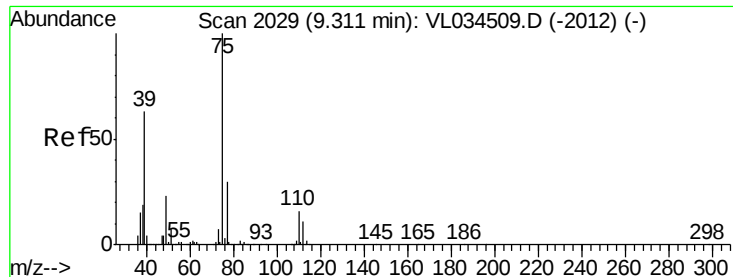
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#44
2,2,4-Trimethylpentane
Concen: 9.669 ppbv
RT: 7.90 min Scan# 1589
Delta R.T. 0.01 min
Lab File: VL034541.D
Acq: 31 Dec 2019 10:20

Tgt Ion	Ratio	Lower	Upper
57	100		
41	35.8	29.0	43.4
56	31.1	24.9	37.3





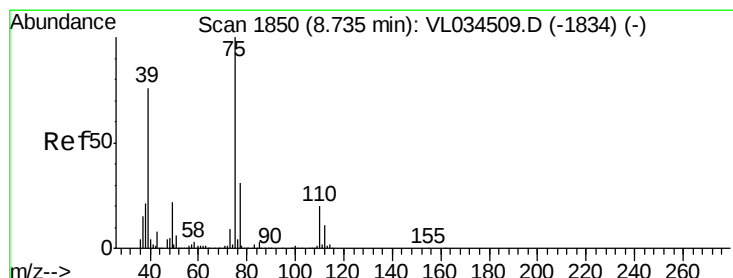
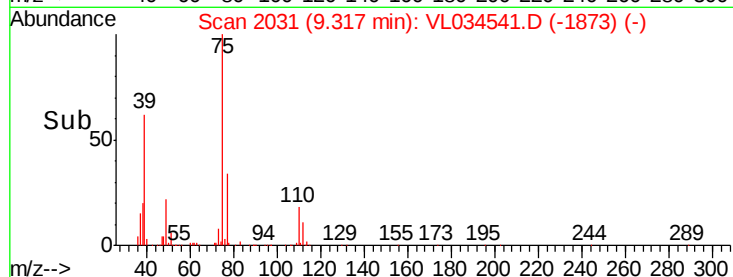
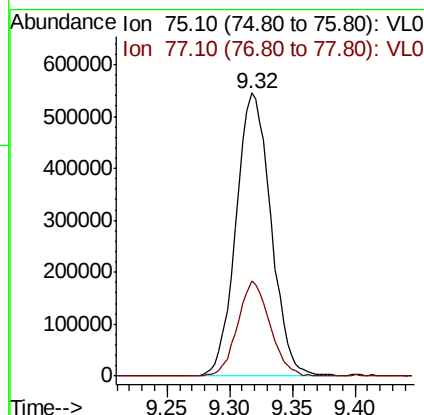
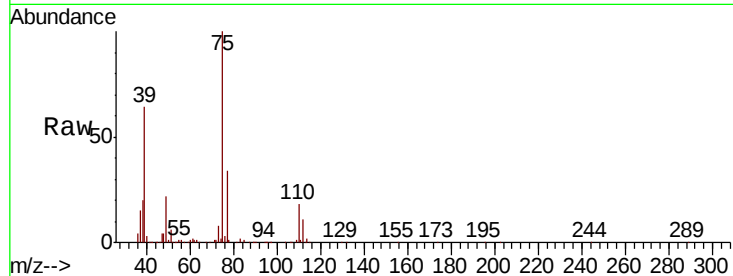
#45
 t-1,3-Dichloropropene
 Concen: 11.335 ppbv
 RT: 9.32 min Scan# 2031
 Delta R.T. 0.01 min
 Lab File: VL034541.D
 Acq: 31 Dec 2019 10:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 75 Resp: 1057107
 Ion Ratio Lower Upper
 75 100
 77 33.6 24.2 36.2

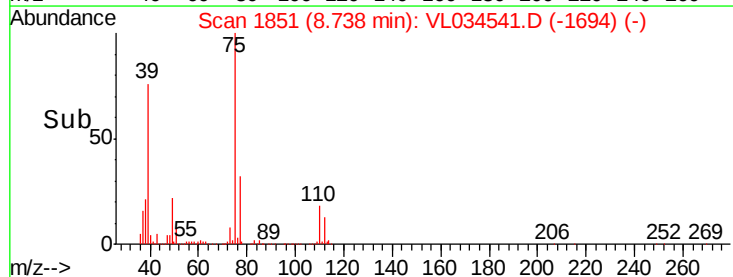
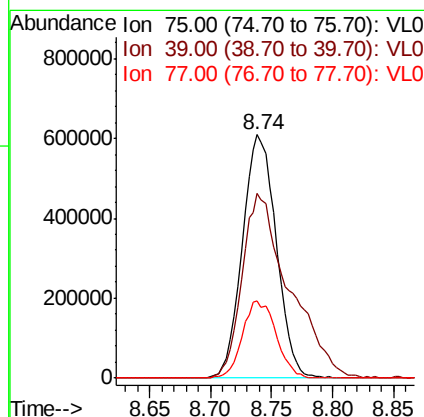
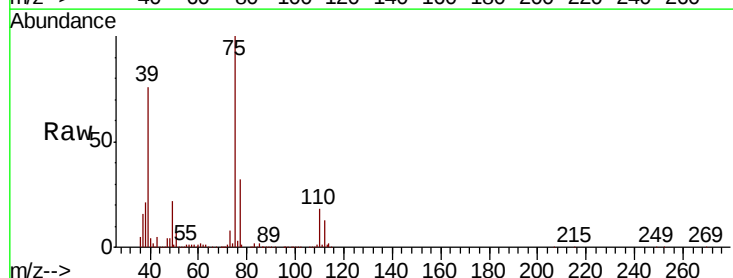
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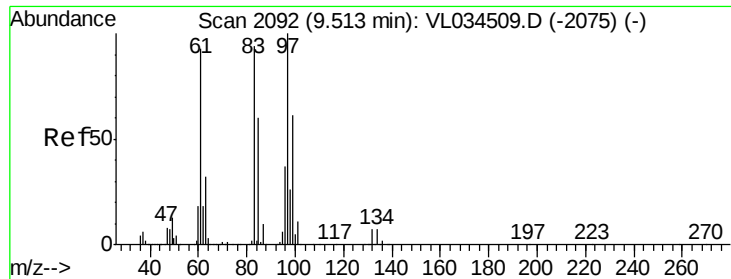
apatel
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#46
 cis-1,3-Dichloropropene
 Concen: 10.905 ppbv
 RT: 8.74 min Scan# 1851
 Delta R.T. 0.00 min
 Lab File: VL034541.D
 Acq: 31 Dec 2019 10:20

Tgt Ion: 75 Resp: 1162513
 Ion Ratio Lower Upper
 75 100
 39 75.8 60.5 90.7
 77 31.7 24.8 37.2





#47

1,1,2-Trichloroethane

Concen: 9.268 ppbv

RT: 9.52 min Scan# 2094

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

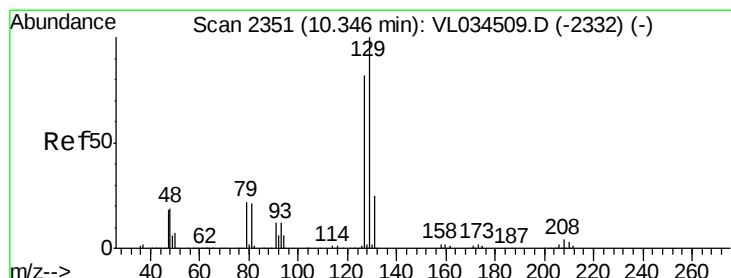
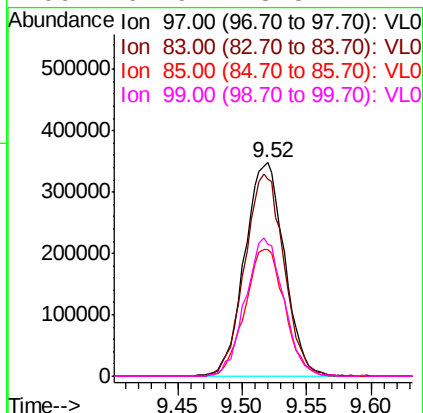
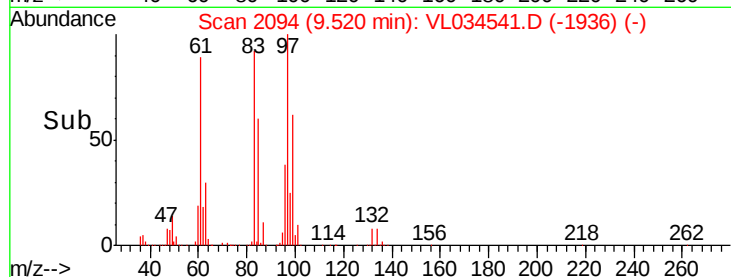
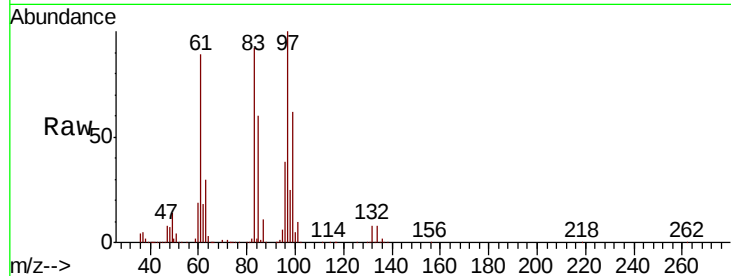
ClientSampleId :

VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	92.5	75.0	112.4	
85	59.6	48.2	72.4	
99	61.9	48.5	72.7	

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#48

Dibromochloromethane

Concen: 10.041 ppbv

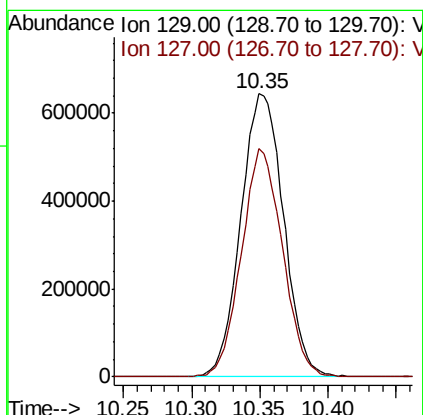
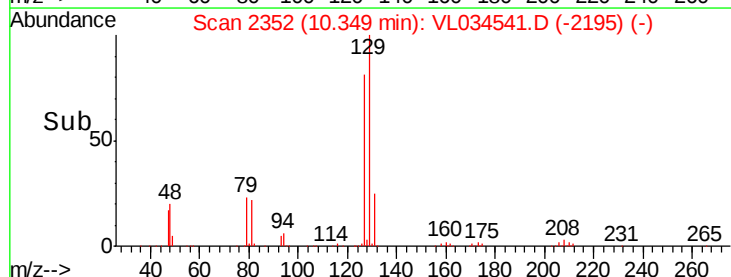
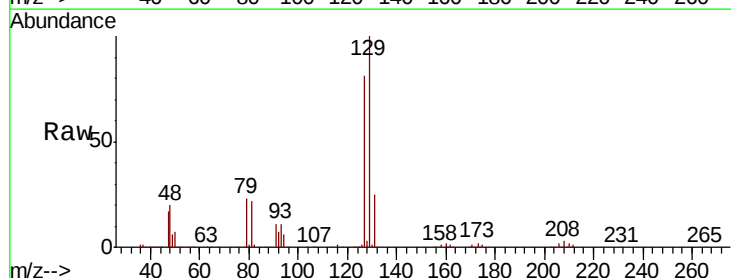
RT: 10.35 min Scan# 2352

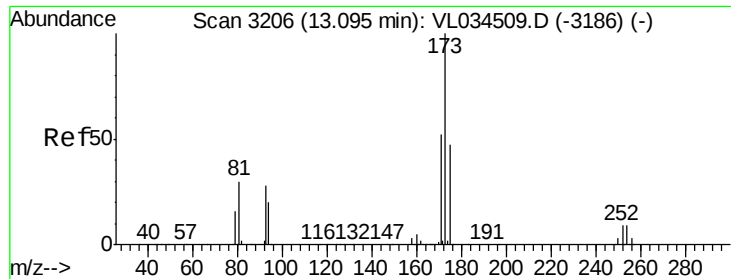
Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	77.8	39.4	118.2	





#49

Bromoform

Concen: 9.515 ppbv

RT: 13.10 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 173 Resp: 1201345

Ion Ratio Lower Upper

173 100

175 50.0 39.8 59.8

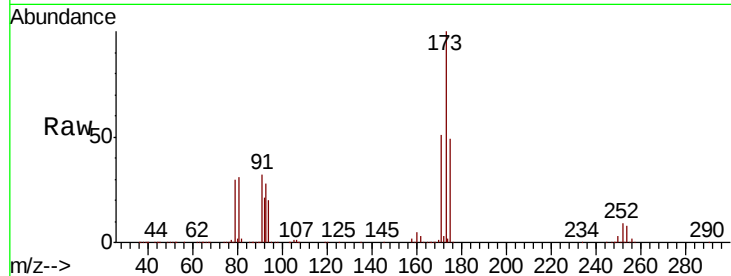
171 52.1 42.1 63.1

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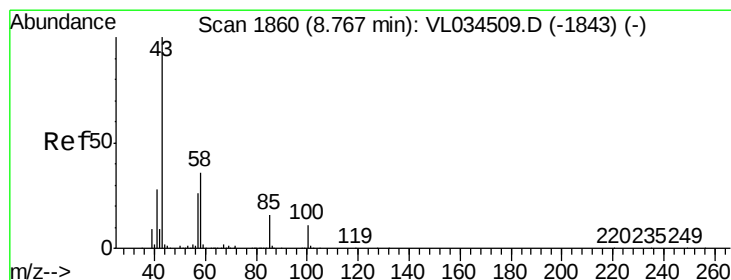
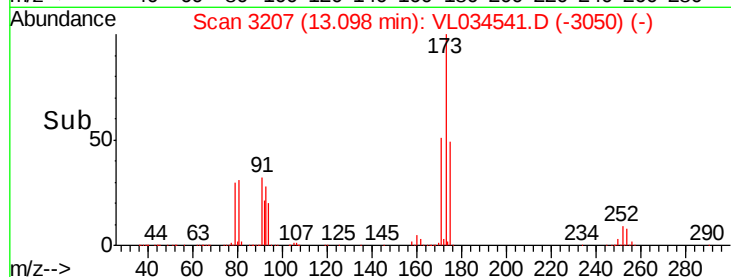
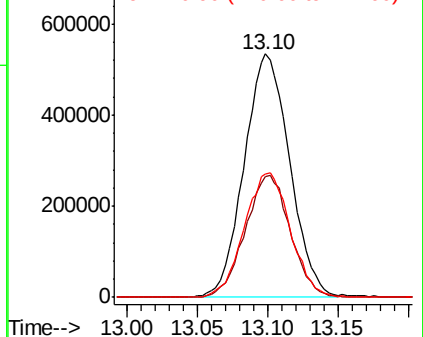
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.816 ppbv

RT: 8.77 min Scan# 1862

Delta R.T. 0.01 min

Lab File: VL034541.D

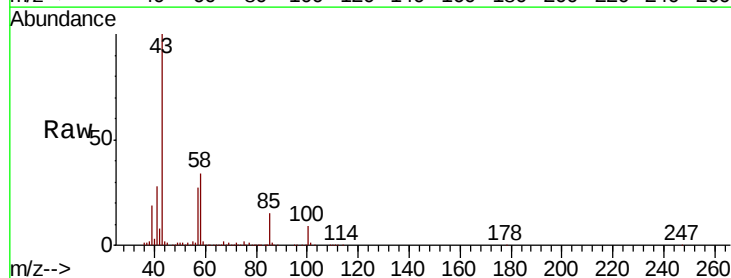
Acq: 31 Dec 2019 10:20

Tgt Ion: 43 Resp: 2073296

Ion Ratio Lower Upper

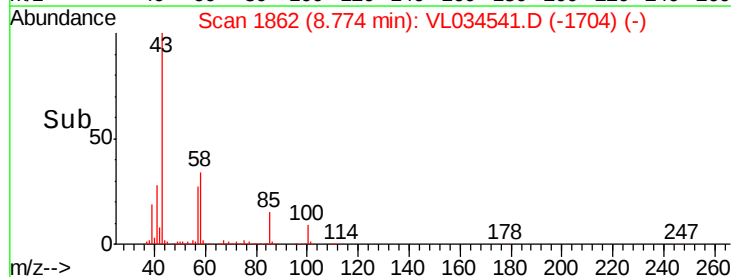
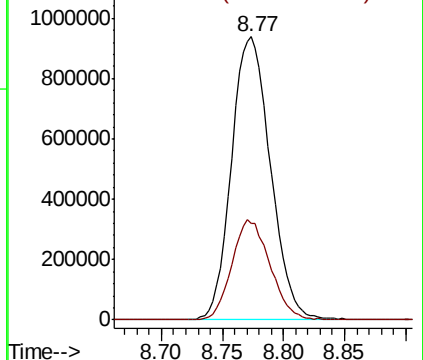
43 100

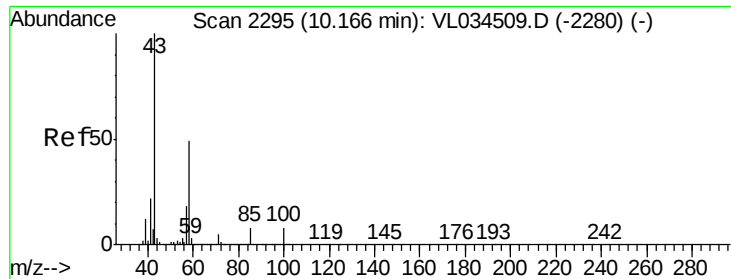
58 34.8 28.2 42.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





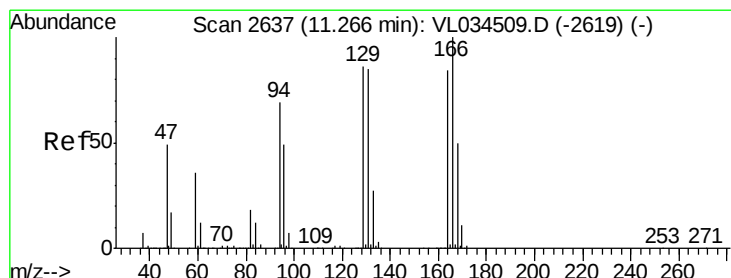
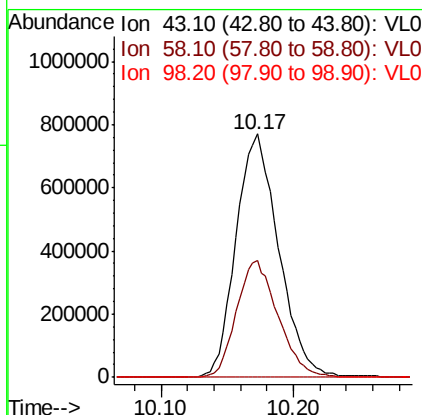
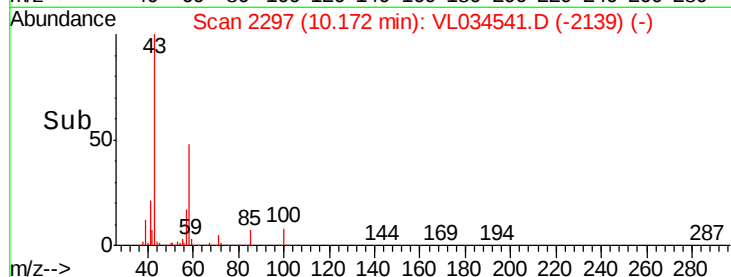
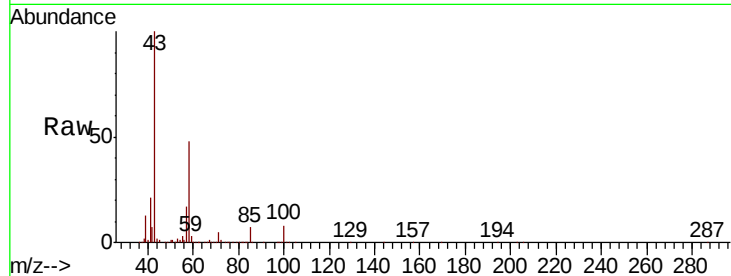
#51
2-Hexanone
Concen: 10.082 ppbv
RT: 10.17 min Scan# 2297
Delta R.T. 0.01 min
Lab File: VL034541.D
Acq: 31 Dec 2019 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1718951
Ion Ratio Lower Upper
43 100
58 47.0 37.4 56.0
98 0.2 0.2 0.2

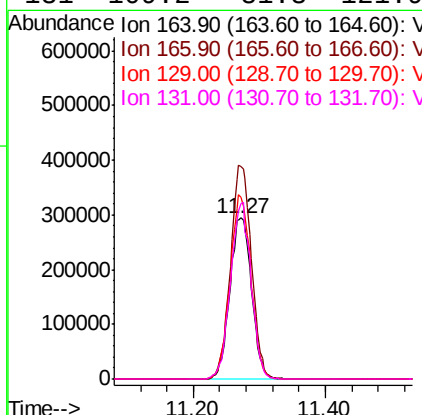
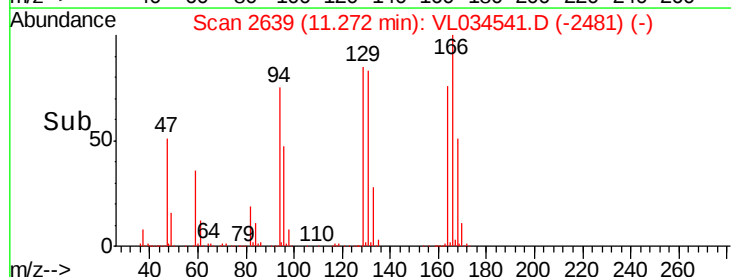
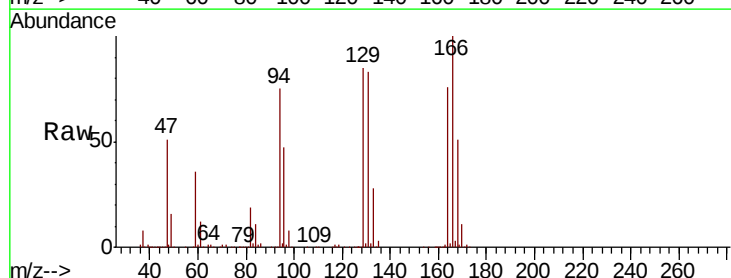
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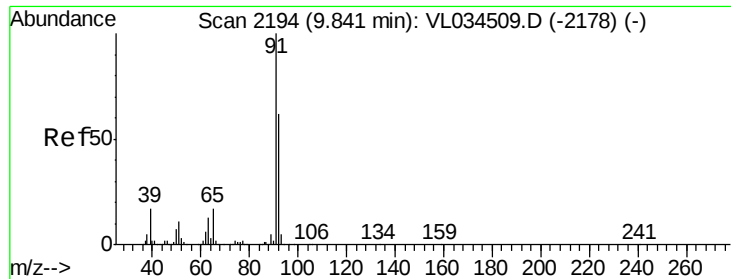
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#52
Tetrachloroethene
Concen: 9.646 ppbv m
RT: 11.27 min Scan# 2639
Delta R.T. 0.01 min
Lab File: VL034541.D
Acq: 31 Dec 2019 10:20

Tgt Ion:164 Resp: 668101
Ion Ratio Lower Upper
164 100
166 132.1 95.7 143.5
129 112.9 82.2 123.2
131 109.2 81.3 121.9





#53

Toluene

Concen: 10.377 ppbv

RT: 9.85 min Scan# 2196

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2023492

Ion Ratio Lower Upper

91 100

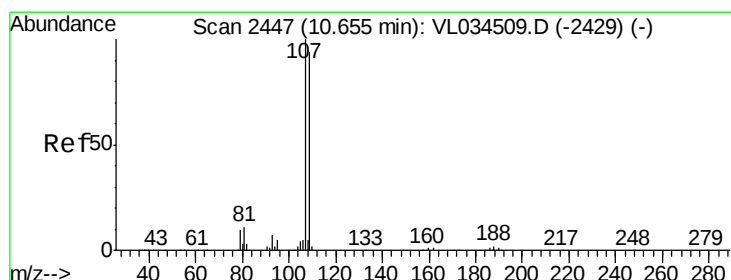
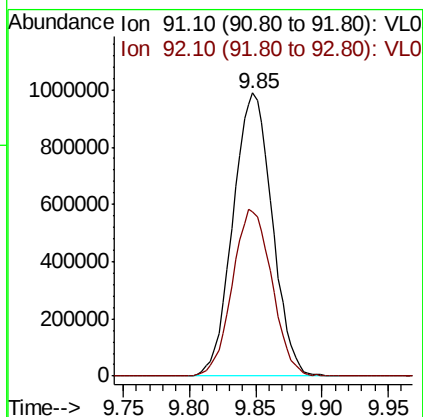
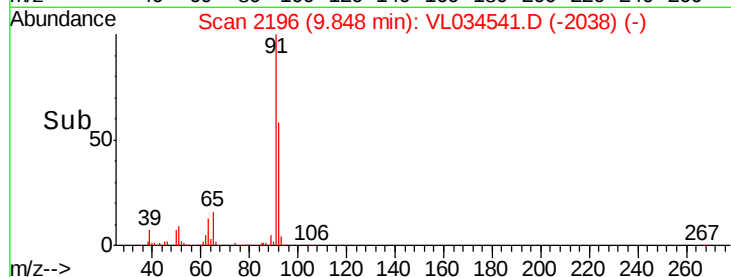
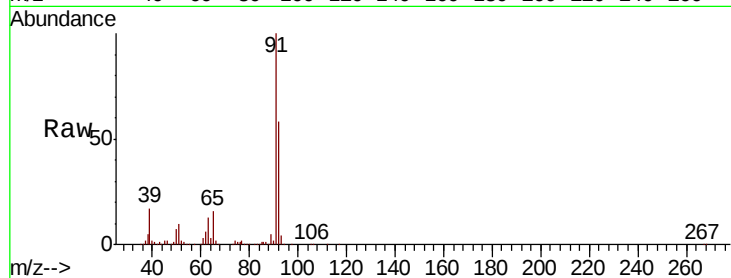
92 59.7 48.4 72.6

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#54

1,2-Dibromoethane

Concen: 9.613 ppbv

RT: 10.66 min Scan# 2448

Delta R.T. 0.00 min

Lab File: VL034541.D

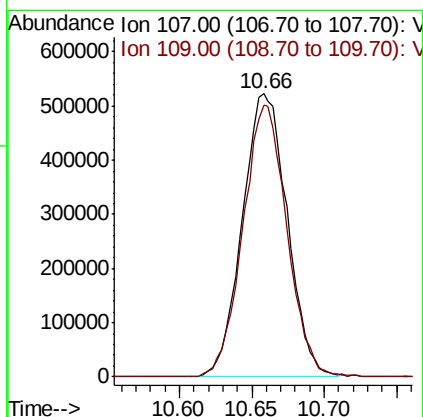
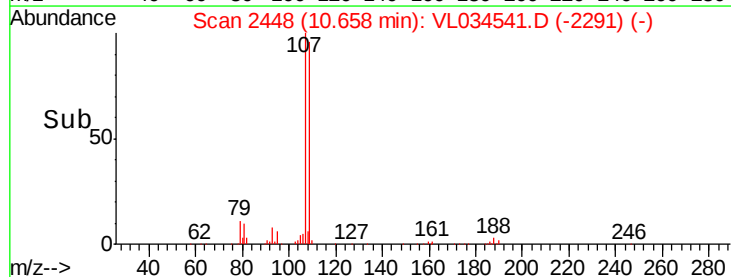
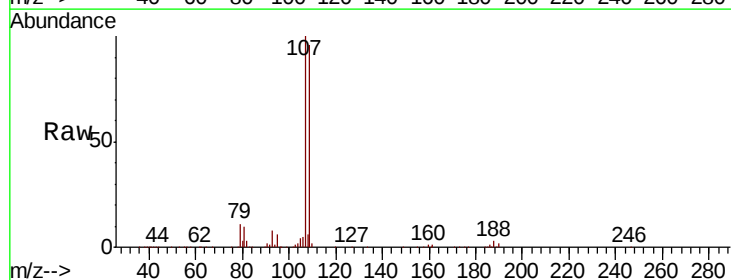
Acq: 31 Dec 2019 10:20

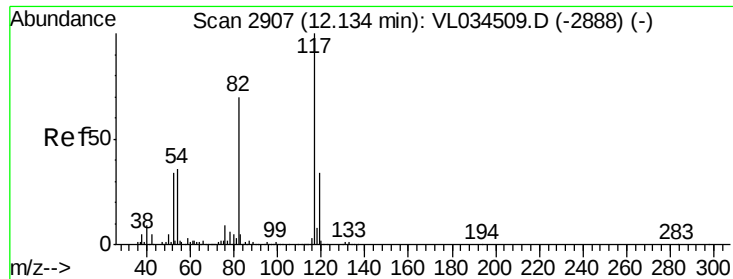
Tgt Ion: 107 Resp: 1125441

Ion Ratio Lower Upper

107 100

109 96.0 75.5 113.3





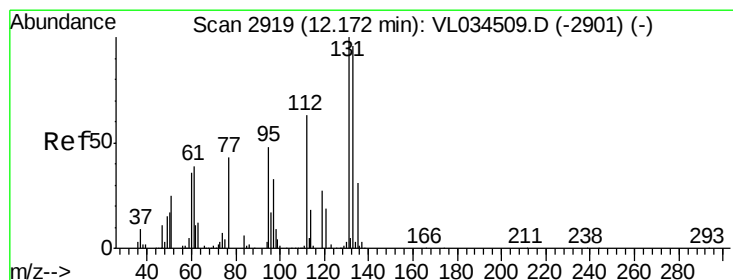
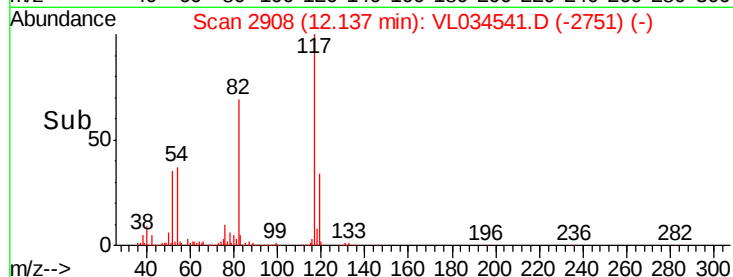
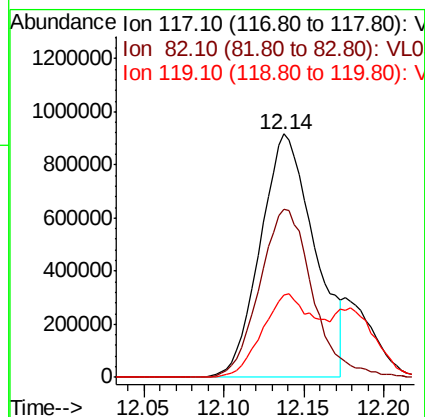
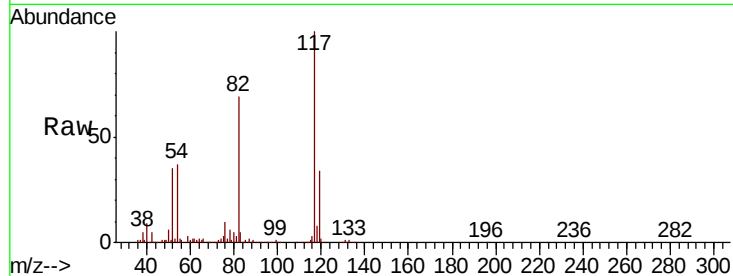
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.14 min Scan# 2908
Delta R.T. 0.00 min
Lab File: VL034541.D
Acq: 31 Dec 2019 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	67.9	56.2	84.4
119	35.2	27.1	40.7

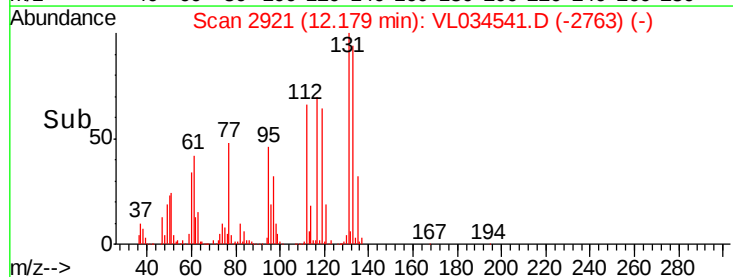
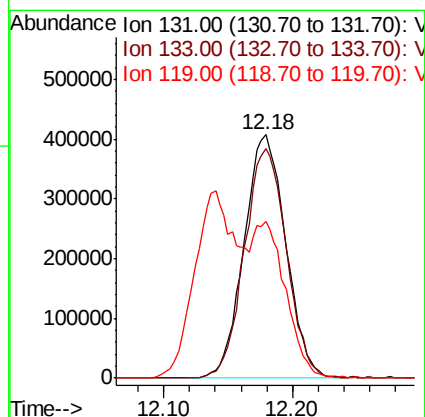
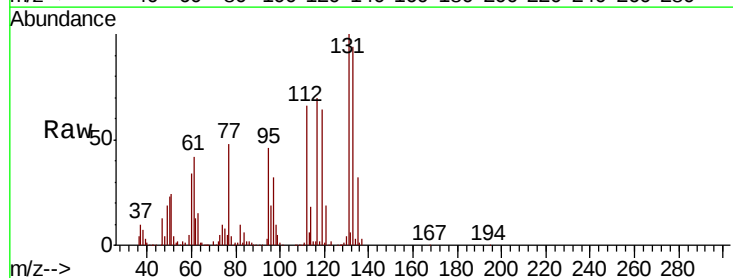
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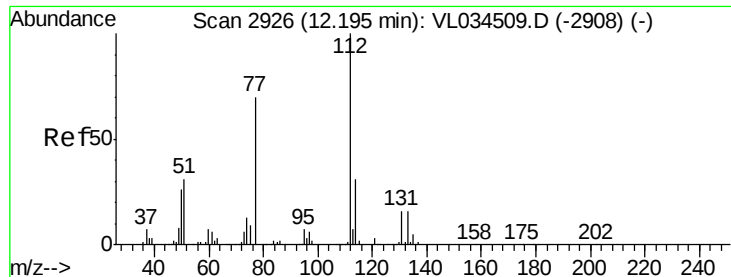
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.849 ppbv
RT: 12.18 min Scan# 2921
Delta R.T. 0.01 min
Lab File: VL034541.D
Acq: 31 Dec 2019 10:20

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.0	76.2	114.2
119	50.5	47.1	70.7





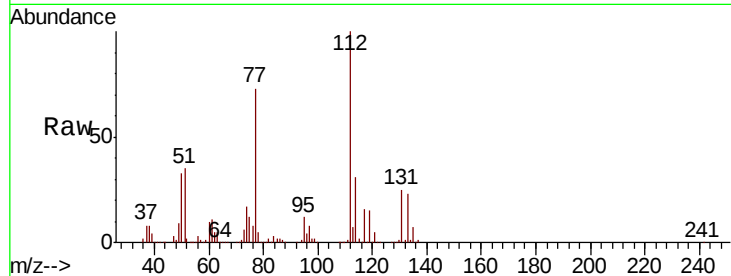
#57
Chlorobenzene
Concen: 8.785 ppbv
RT: 12.20 min Scan# 2927
Delta R.T. 0.00 min
Lab File: VL034541.D
Acq: 31 Dec 2019 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

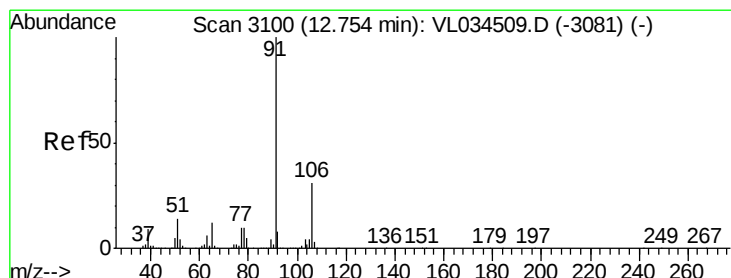
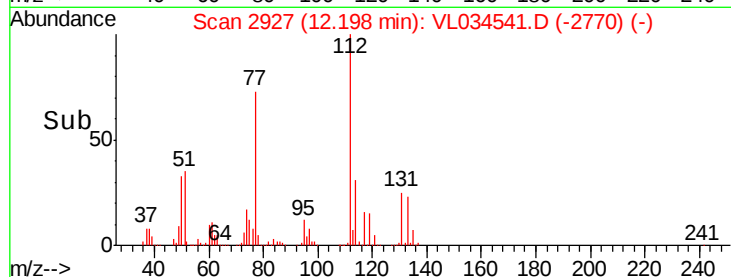
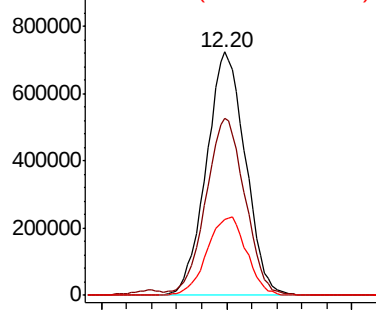
Tot Ion	Ratio	Lower	Upper
112	100		
77	72.3	57.4	86.0
114	31.1	28.4	34.8

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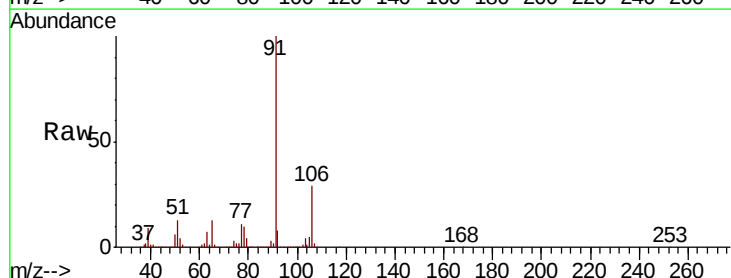


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

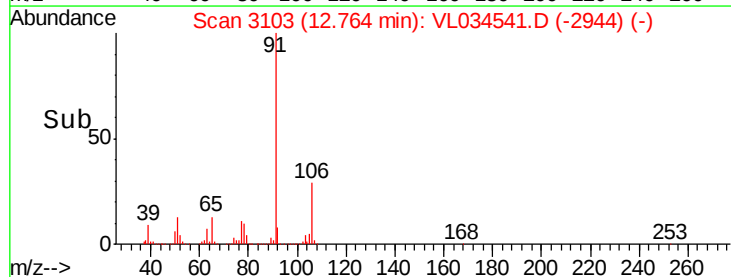
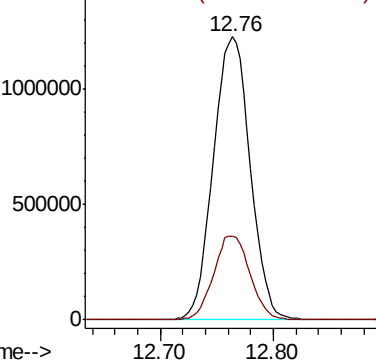


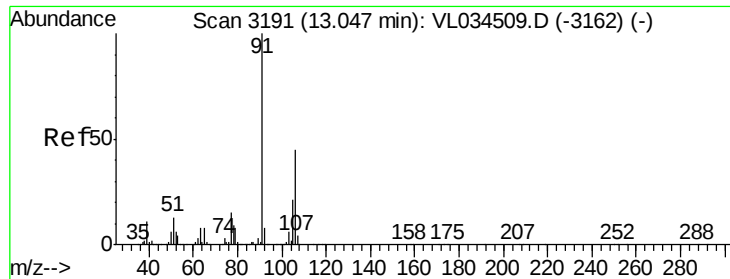
#58
Ethyl Benzene
Concen: 9.562 ppbv
RT: 12.76 min Scan# 3103
Delta R.T. 0.01 min
Lab File: VL034541.D
Acq: 31 Dec 2019 10:20

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.4	24.6	36.8



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





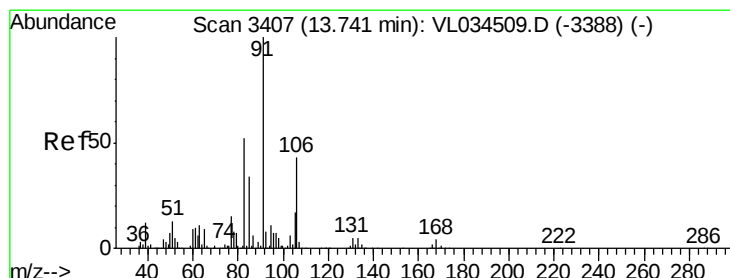
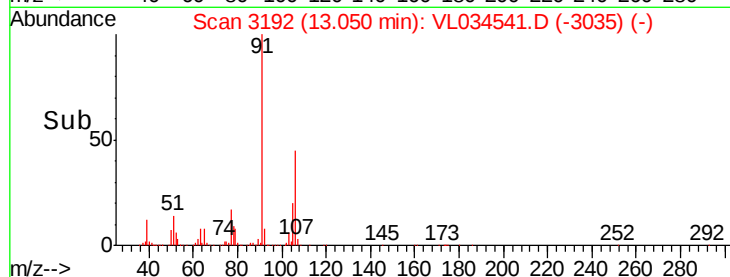
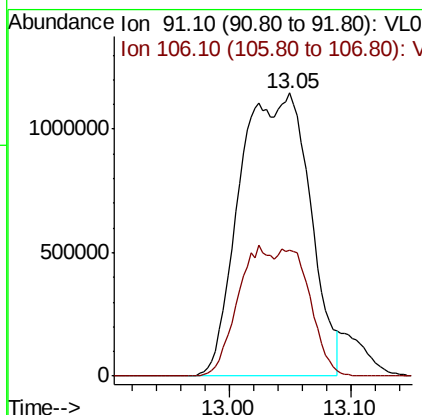
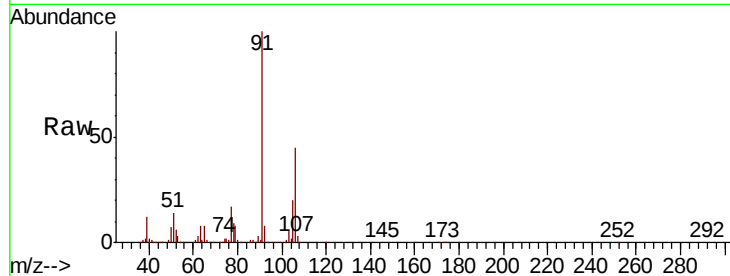
#59
m/p-Xylene
Concen: 18.052 ppbv m
RT: 13.05 min Scan# 3192
Delta R.T. 0.00 min
Lab File: VL034541.D
Acq: 31 Dec 2019 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 4583290
Ion Ratio Lower Upper
91 100
106 0.0 35.6 53.4#

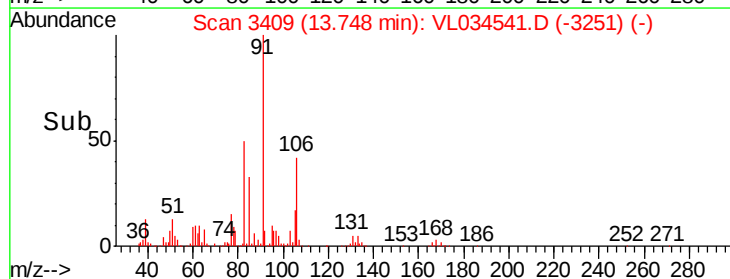
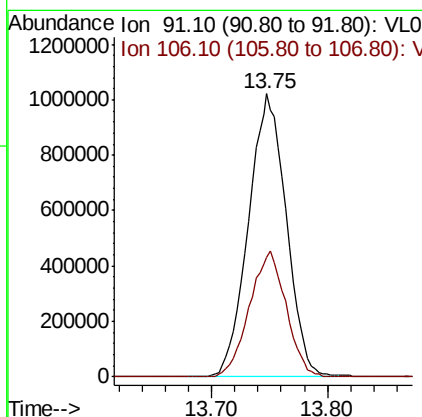
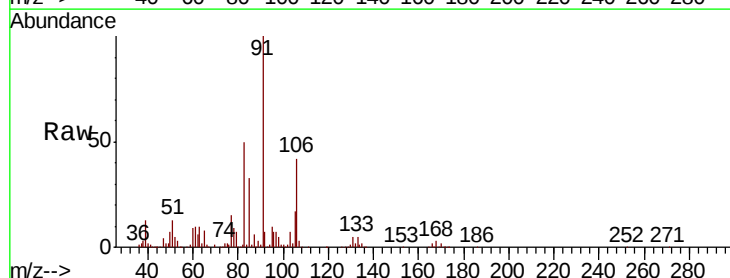
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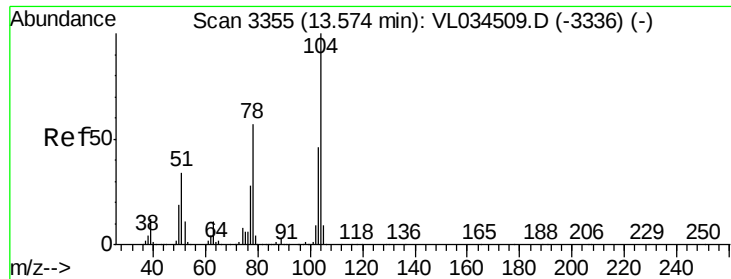
apatel
1/2/2020 10:50:25 AM



#60
o-Xylene
Concen: 9.066 ppbv
RT: 13.75 min Scan# 3409
Delta R.T. 0.01 min
Lab File: VL034541.D
Acq: 31 Dec 2019 10:20

Tgt Ion: 91 Resp: 2309734
Ion Ratio Lower Upper
91 100
106 43.3 21.4 64.3





#61

Stvrene

Concen: 9.599 ppbv

RT: 13.58 min Scan# 3358

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:104 Resp: 1671989

Ion Ratio Lower Upper

104 100

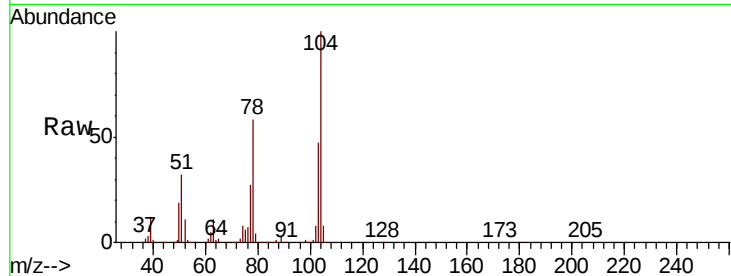
78 60.3 47.7 71.5

103 48.2 38.6 58.0

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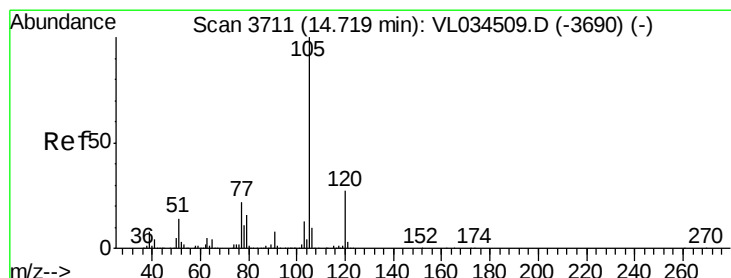
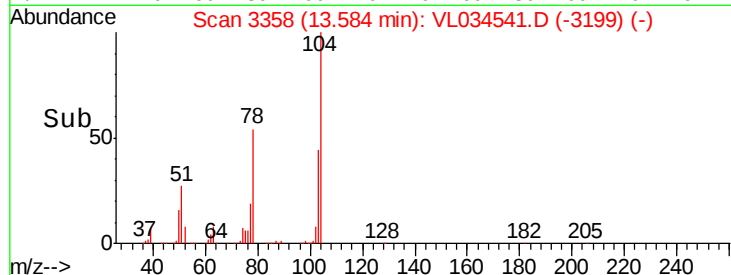
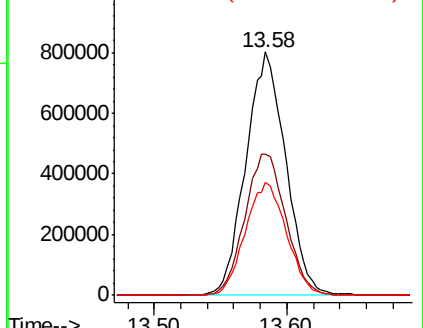
1/2/2020 10:50:25 AM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 8.995 ppbv

RT: 14.73 min Scan# 3713

Delta R.T. 0.01 min

Lab File: VL034541.D

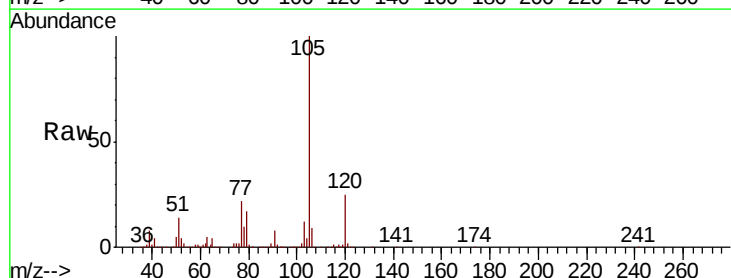
Acq: 31 Dec 2019 10:20

Tgt Ion:105 Resp: 2997788

Ion Ratio Lower Upper

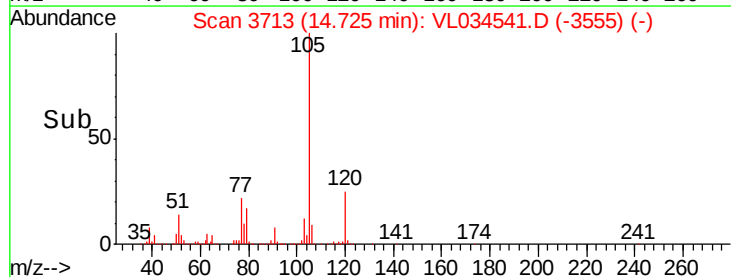
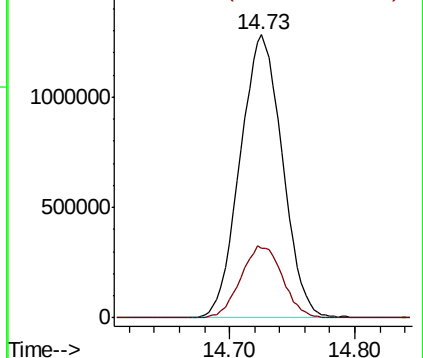
105 100

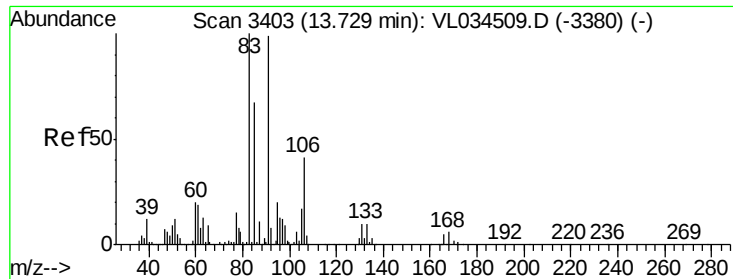
120 25.2 20.6 30.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 7.825 ppbv

RT: 13.74 min Scan# 3405

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 1599265

Ion Ratio Lower Upper

83 100

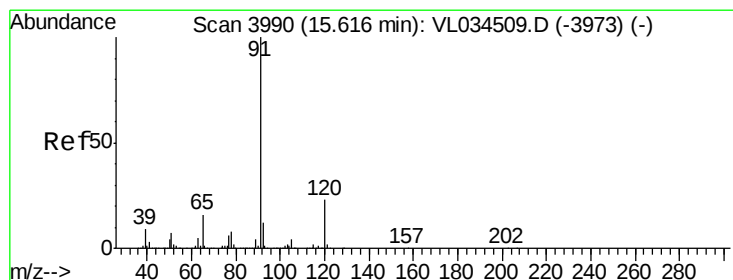
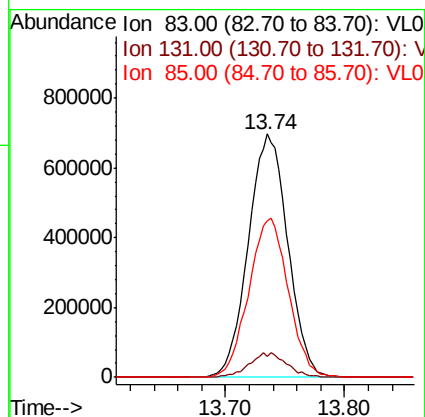
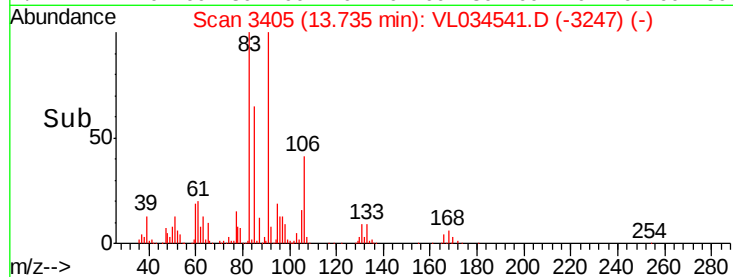
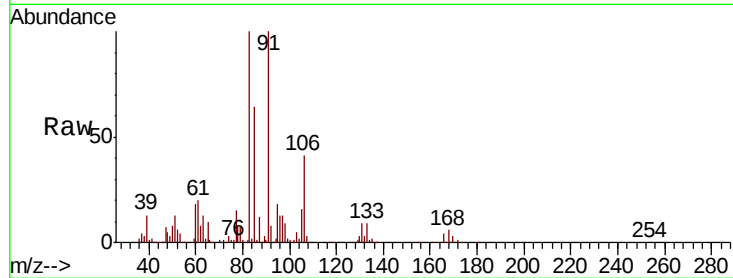
131 9.6 4.8 14.4

85 65.8 32.5 97.4

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#64

n-propylbenzene

Concen: 9.123 ppbv

RT: 15.62 min Scan# 3992

Delta R.T. 0.01 min

Lab File: VL034541.D

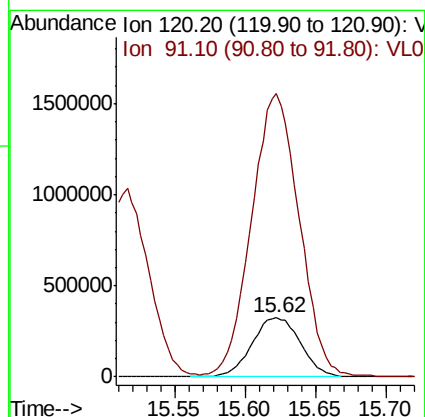
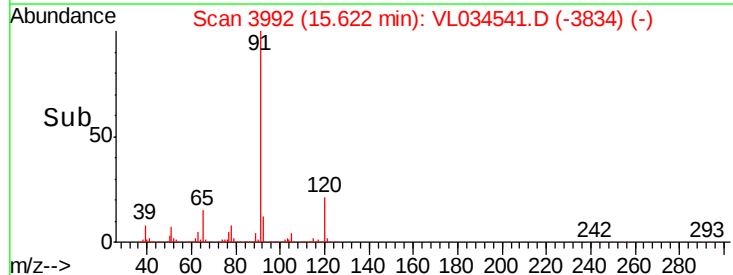
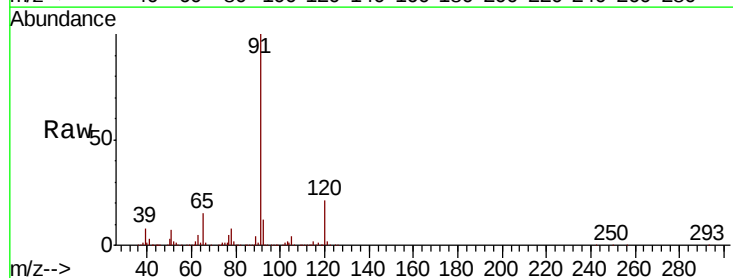
Acq: 31 Dec 2019 10:20

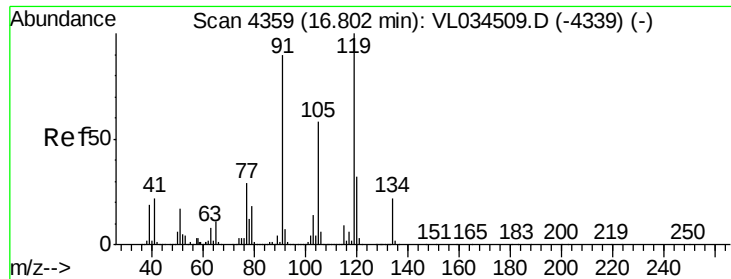
Tgt Ion: 120 Resp: 776299

Ion Ratio Lower Upper

120 100

91 475.4 375.6 563.4





#65

tert-Butylbenzene

Concen: 9.128 ppbv

RT: 16.81 min Scan# 4362

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 119 Resp: 2748166

Ion Ratio Lower Upper

119 100

91 90.1 72.0 108.0

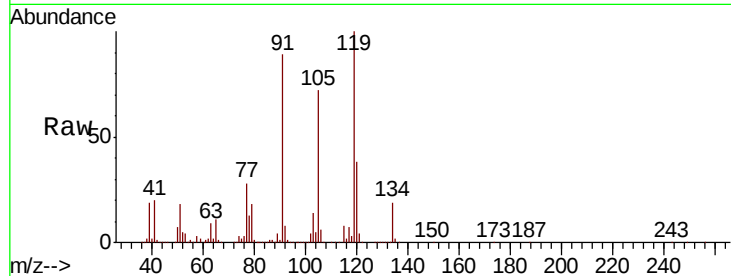
134 19.6 16.1 24.1

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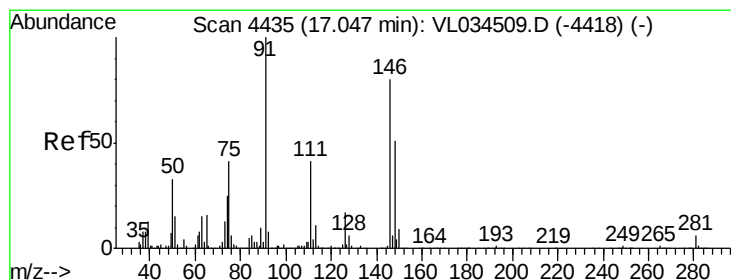
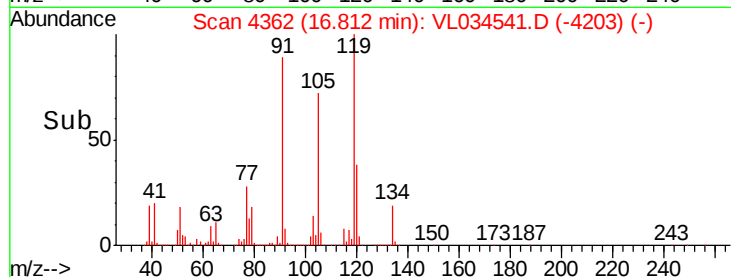
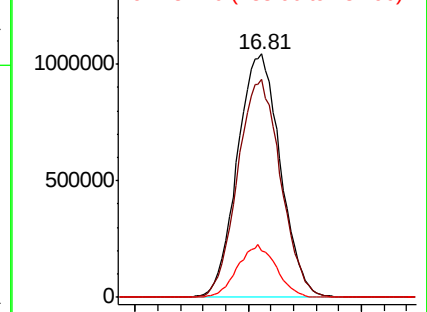
1/2/2020 10:50:25 AM



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: 9.860 ppbv

RT: 17.05 min Scan# 4437

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

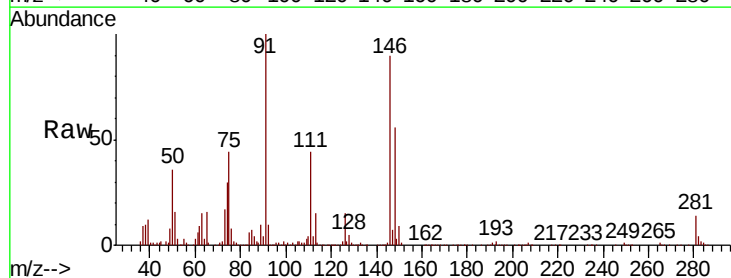
Tgt Ion: 91 Resp: 1301053

Ion Ratio Lower Upper

91 100

126 16.2 13.1 19.7

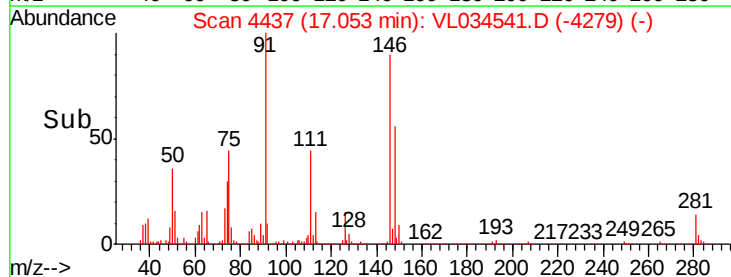
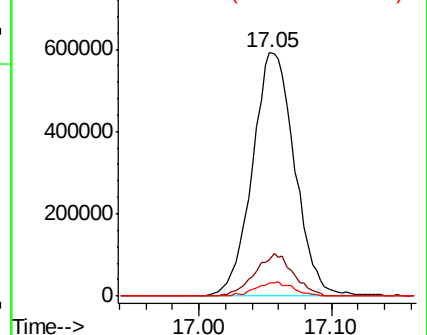
128 5.3 4.2 6.4

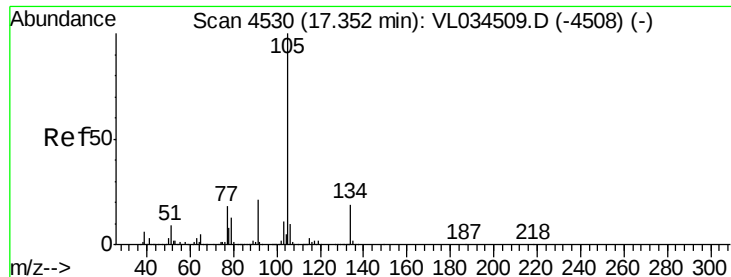


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





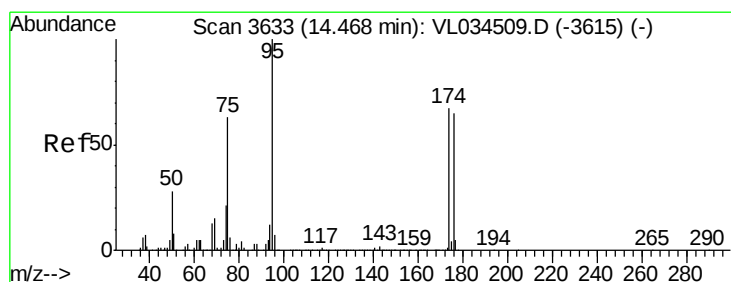
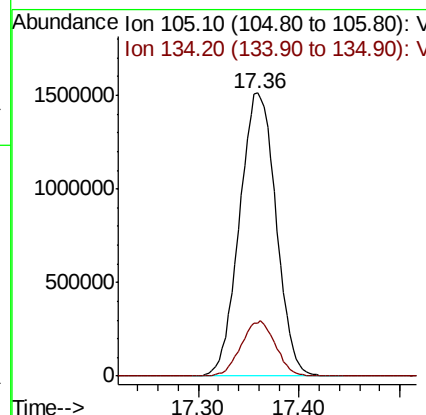
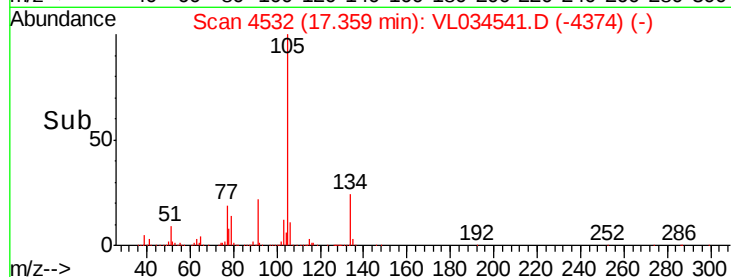
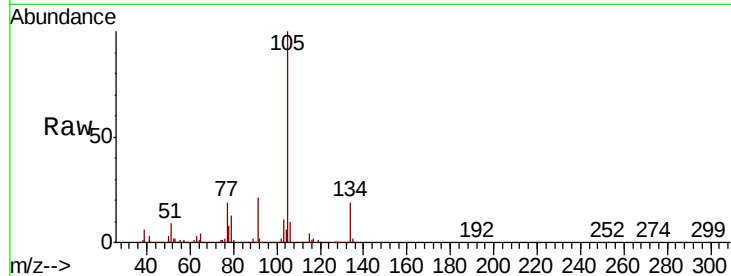
#67
 sec-Butylbenzene
 Concen: 8.966 ppbv
 RT: 17.36 min Scan# 4532
 Delta R.T. 0.01 min
 Lab File: VL034541.D
 Acq: 31 Dec 2019 10:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 105 Resp: 3790917
 Ion Ratio Lower Upper
 105 100
 134 18.5 15.1 22.7

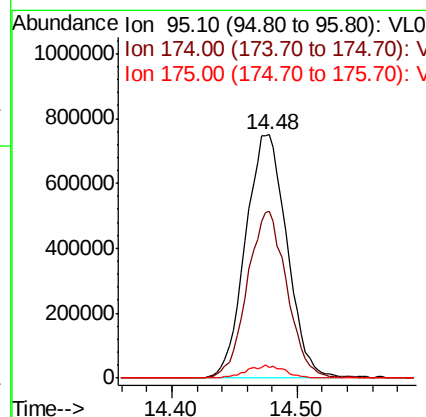
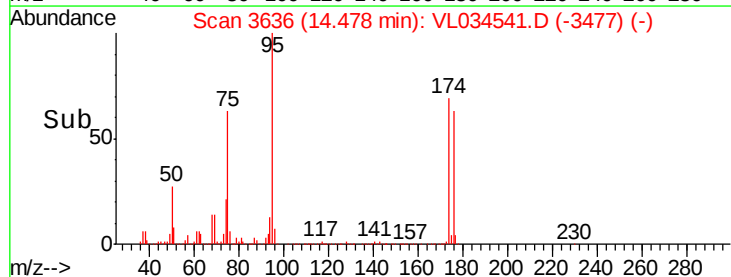
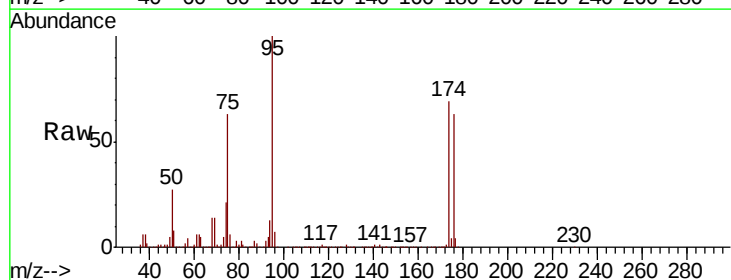
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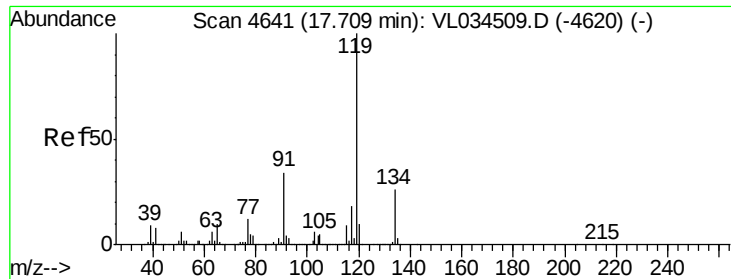
apatel
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.565 ppbv
 RT: 14.48 min Scan# 3636
 Delta R.T. 0.01 min
 Lab File: VL034541.D
 Acq: 31 Dec 2019 10:20

Tgt Ion: 95 Resp: 1718287
 Ion Ratio Lower Upper
 95 100
 174 66.0 52.4 78.6
 175 4.9 3.9 5.9





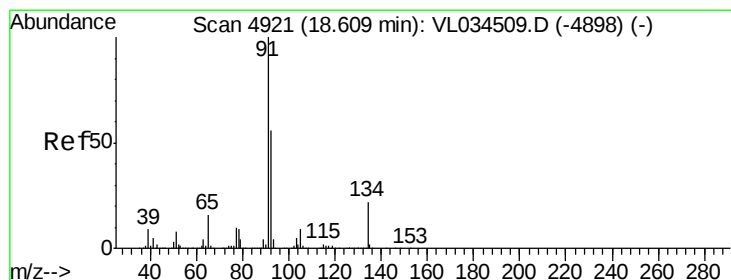
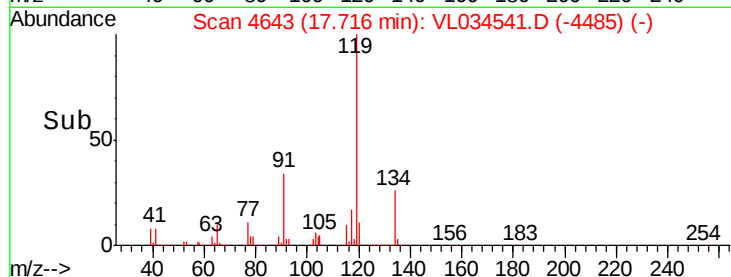
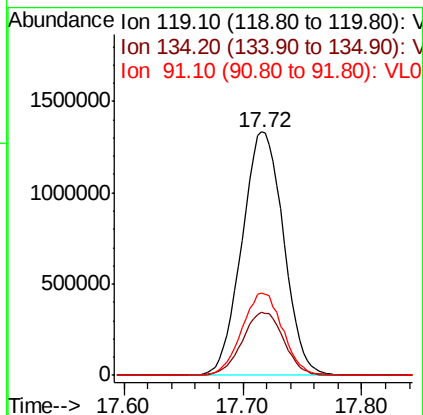
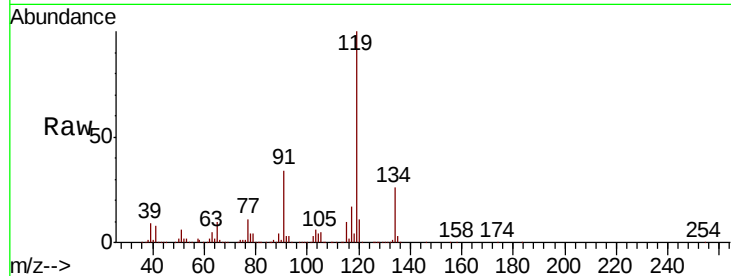
#69
 p-Isopropyltoluene
 Concen: 9.411 ppbv
 RT: 17.72 min Scan# 4643
 Delta R.T. 0.01 min
 Lab File: VL034541.D
 Acq: 31 Dec 2019 10:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.7	20.7	31.1
91	33.2	26.6	39.8

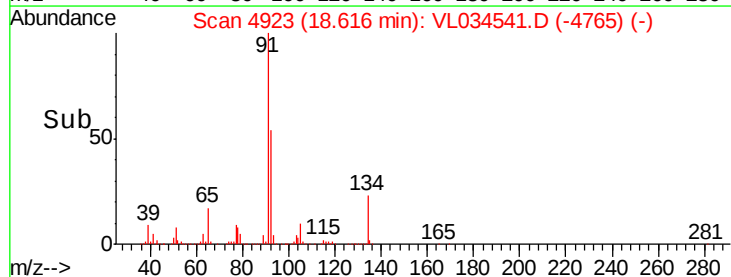
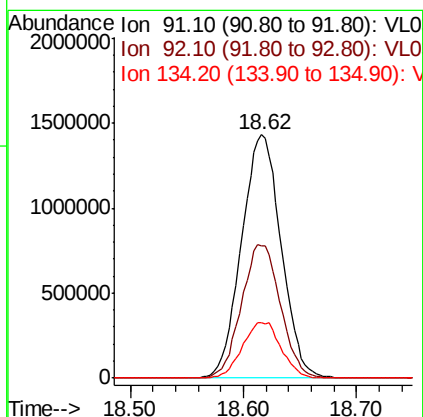
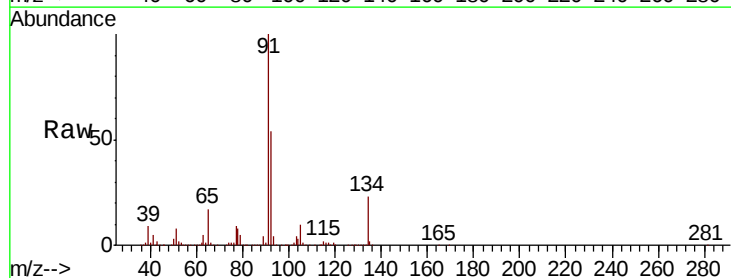
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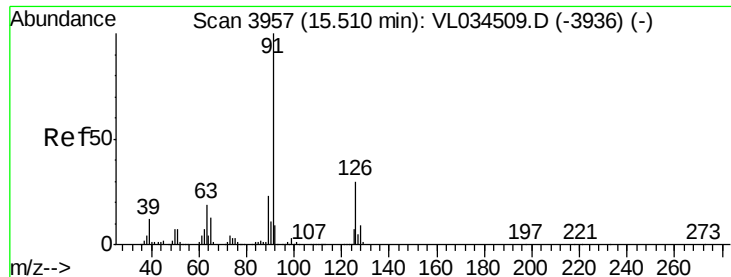
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#70
 n-Butylbenzene
 Concen: 9.392 ppbv
 RT: 18.62 min Scan# 4923
 Delta R.T. 0.01 min
 Lab File: VL034541.D
 Acq: 31 Dec 2019 10:20

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.1	43.8	65.6
134	22.4	18.0	27.0





#71

2-Chlorotoluene

Concen: 9.076 ppbv

RT: 15.52 min Scan# 3959

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2348664

Ion Ratio Lower Upper

91 100

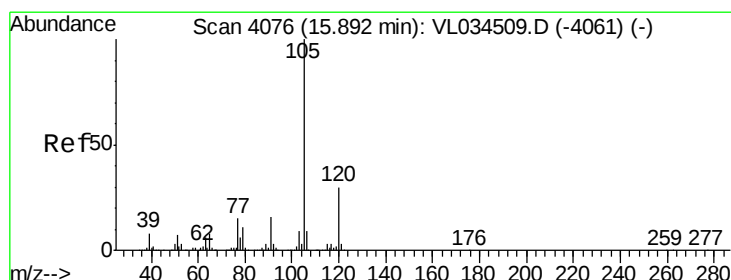
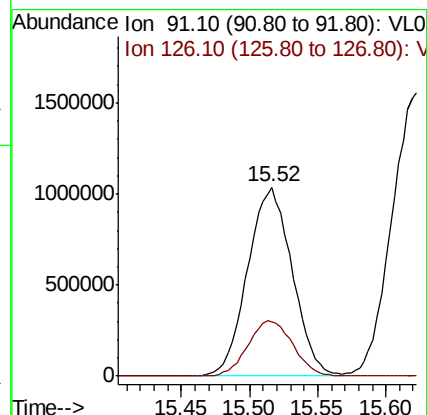
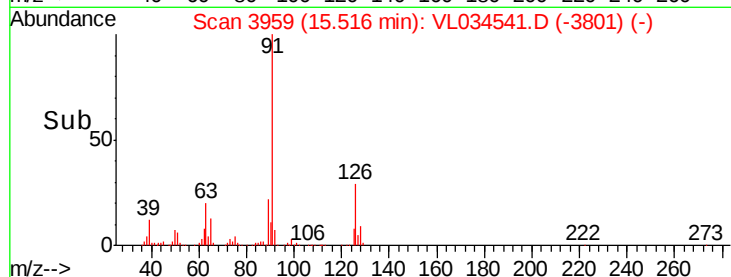
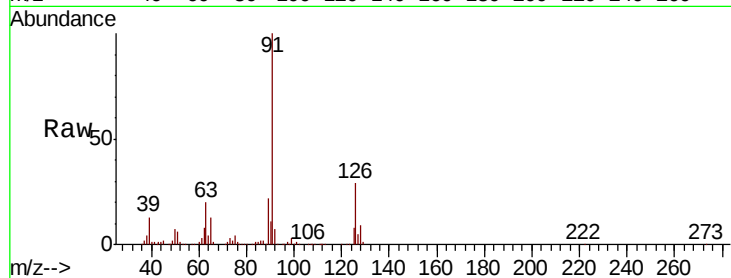
126 29.8 12.0 47.8

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#72

4-Ethyltoluene

Concen: 9.247 ppbv

RT: 15.90 min Scan# 4078

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Tgt Ion:105 Resp: 2636214

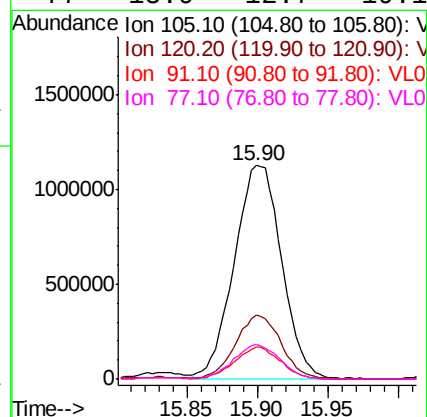
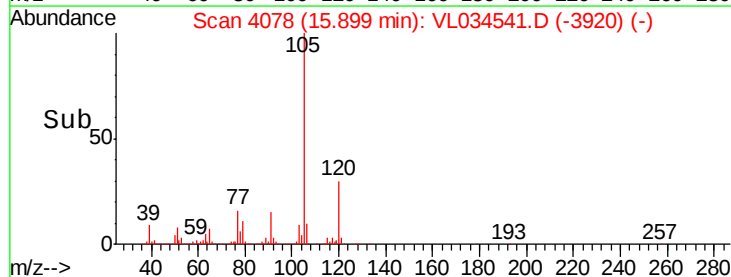
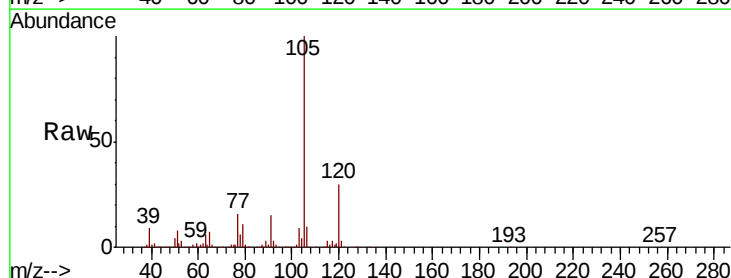
Ion Ratio Lower Upper

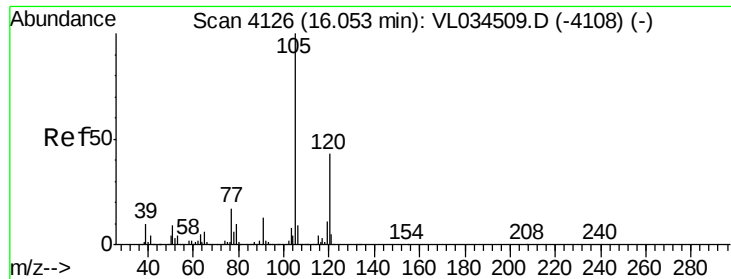
105 100

120 29.1 23.7 35.5

91 14.3 11.5 17.3

77 15.9 12.7 19.1





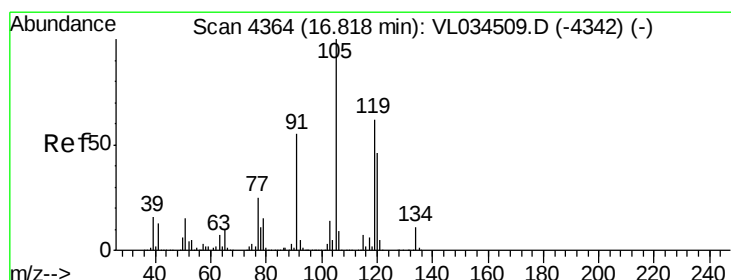
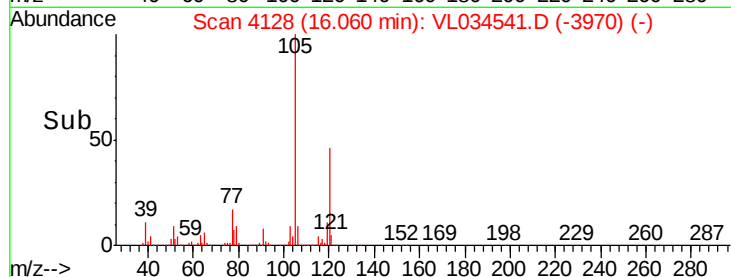
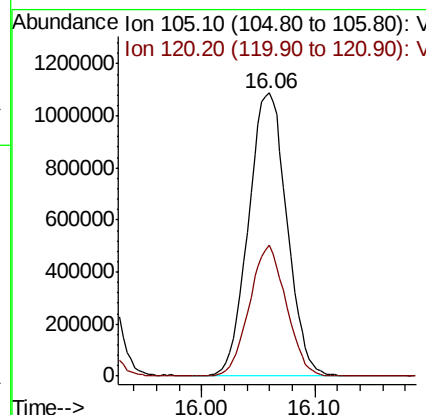
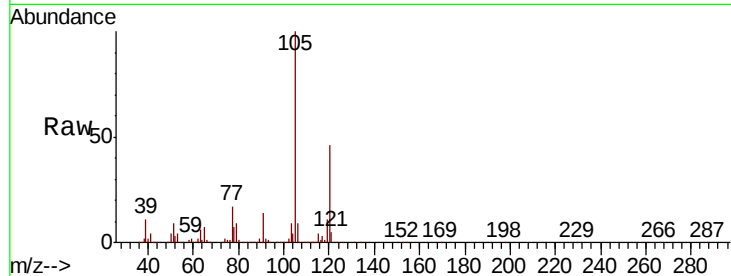
#73
 1,3,5-Trimethylbenzene
 Concen: 9.147 ppbv
 RT: 16.06 min Scan# 4128
 Delta R.T. 0.01 min
 Lab File: VL034541.D
 Acq: 31 Dec 2019 10:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:105 Resp: 2558353
 Ion Ratio Lower Upper
 105 100
 120 46.5 34.6 52.0

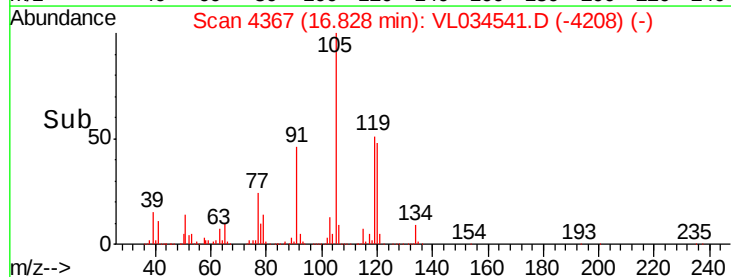
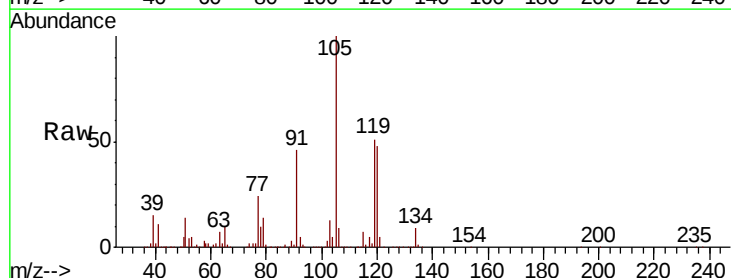
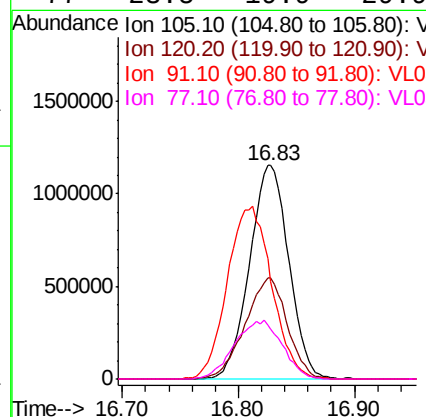
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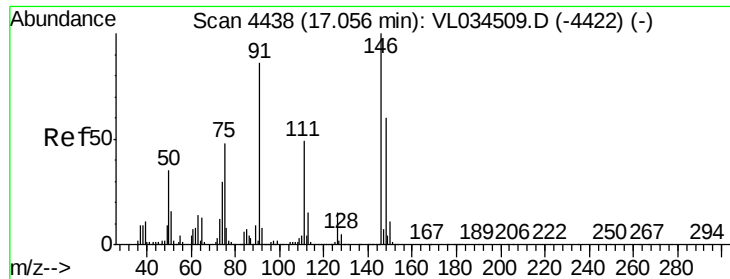
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#74
 1,2,4-Trimethylbenzene
 Concen: 9.058 ppbv
 RT: 16.83 min Scan# 4367
 Delta R.T. 0.01 min
 Lab File: VL034541.D
 Acq: 31 Dec 2019 10:20

Tgt Ion:105 Resp: 2710205
 Ion Ratio Lower Upper
 105 100
 120 47.5 36.7 55.1
 91 45.7 44.0 66.0
 77 23.5 19.9 29.9





#75

1,3-Dichlorobenzene

Concen: 8.743 ppbv

RT: 17.06 min Scan# 4440

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 1566783

Ion Ratio Lower Upper

146 100

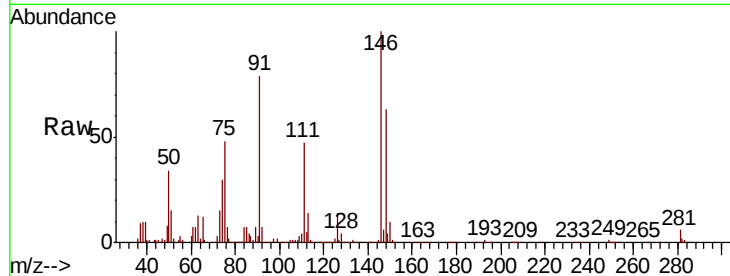
111 49.4 25.1 75.3

148 64.0 33.0 99.0

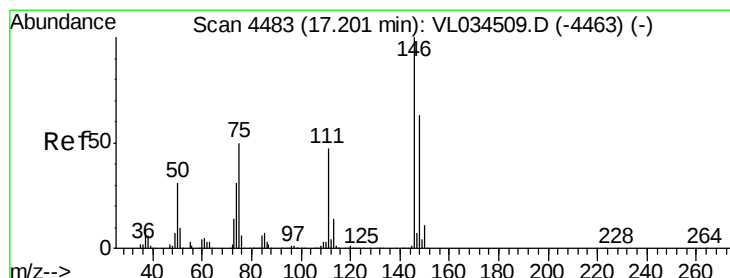
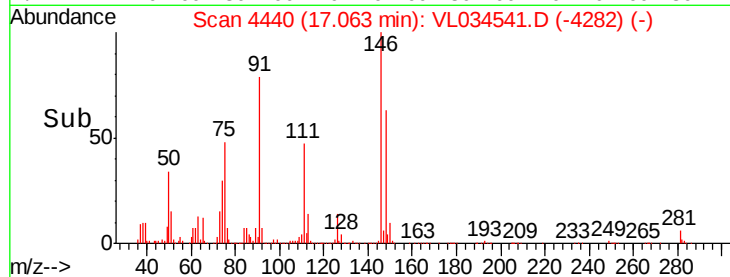
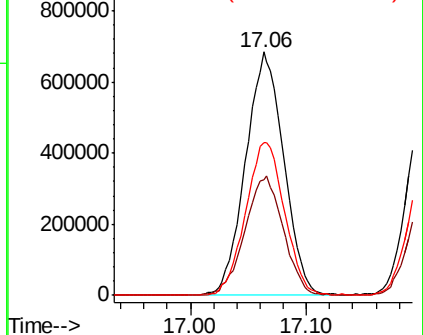
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 9.013 ppbv

RT: 17.21 min Scan# 4485

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

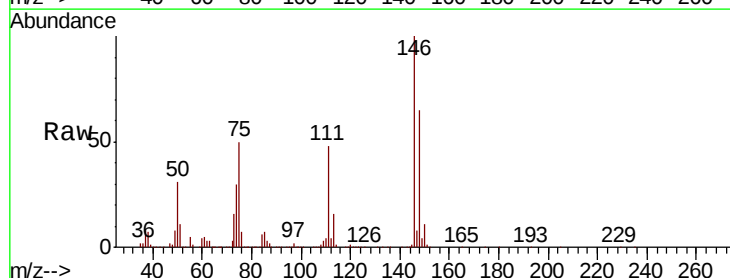
Tgt Ion:146 Resp: 1555074

Ion Ratio Lower Upper

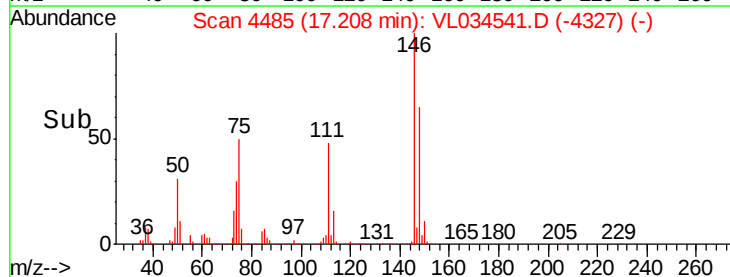
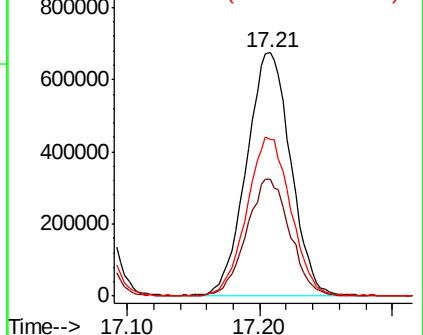
146 100

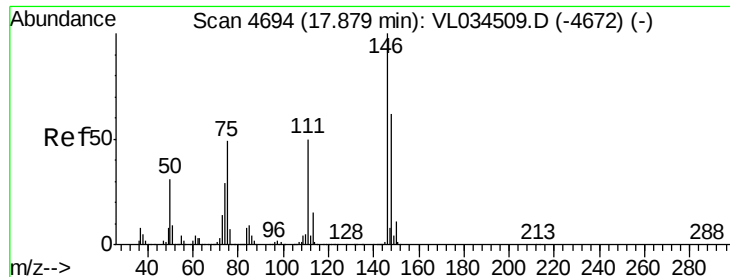
111 47.7 23.5 70.6

148 65.2 32.1 96.3



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





#77

1,2-Dichlorobenzene

Concen: 9.183 ppbv m

RT: 17.89 min Scan# 4697

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampled :

VSTDCCC010EC

Tot Ion:146 Resp: 1546563

Ion Ratio Lower Upper

146 100

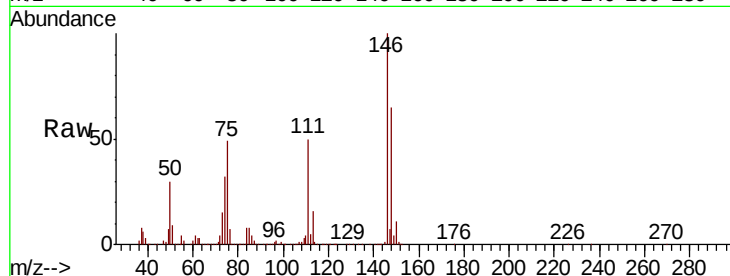
111 0.0 25.3 75.8#

148 0.0 32.1 96.3#

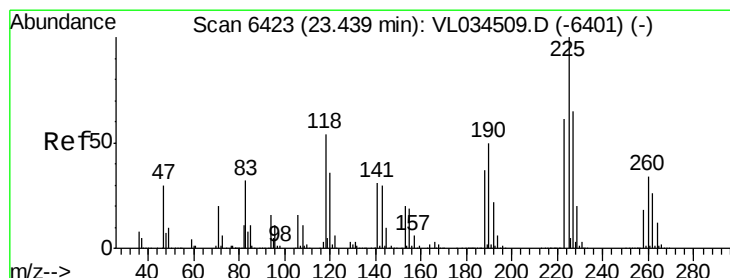
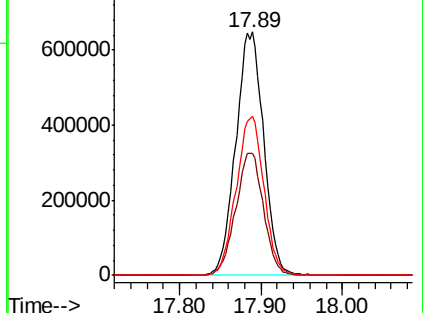
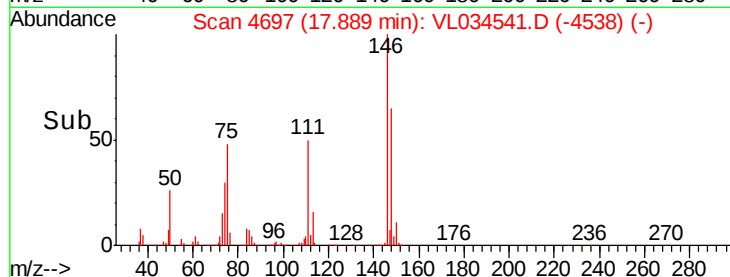
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 9.618 ppbv

RT: 23.45 min Scan# 6426

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

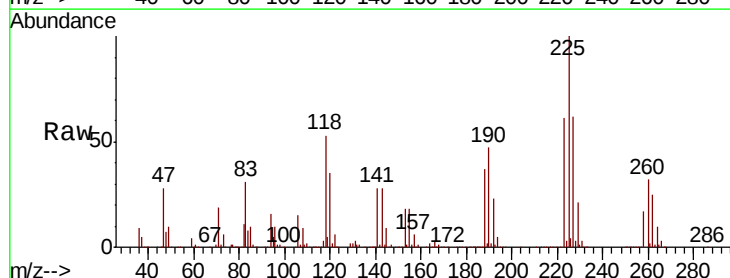
Tgt Ion:225 Resp: 1537608

Ion Ratio Lower Upper

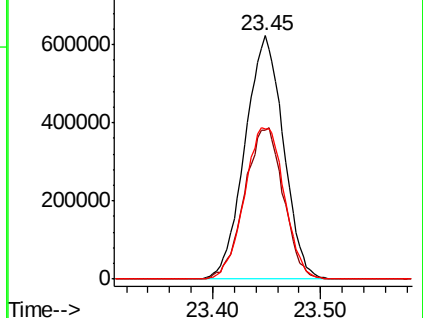
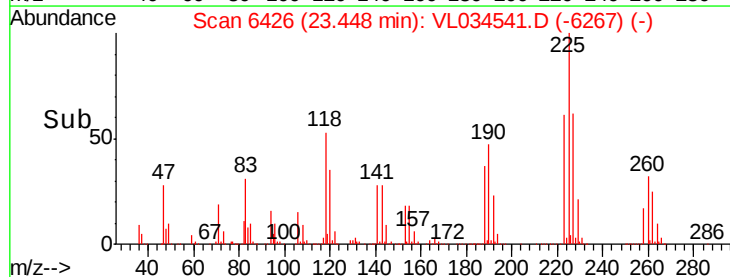
225 100

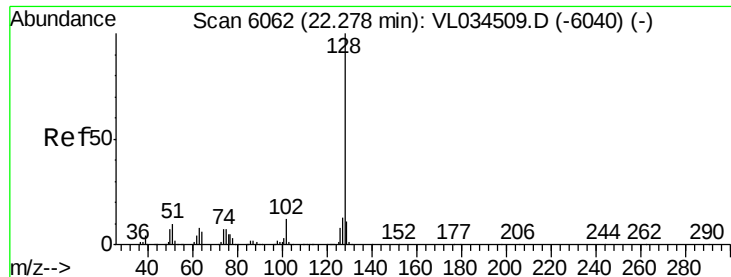
223 63.0 51.0 76.6

227 64.8 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





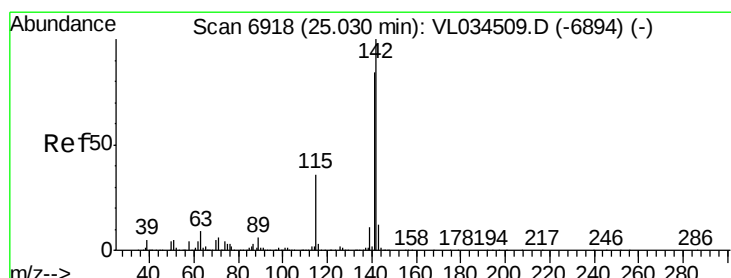
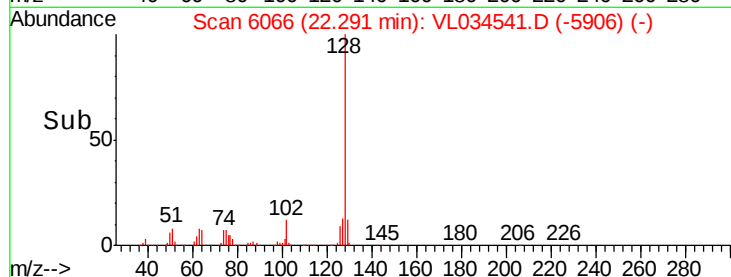
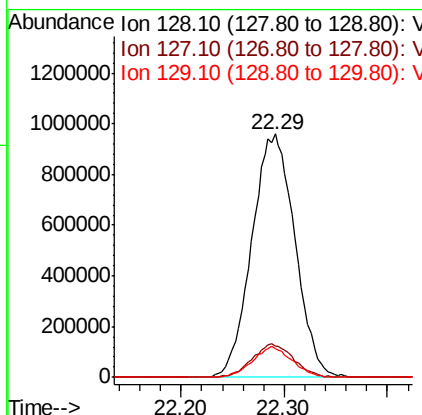
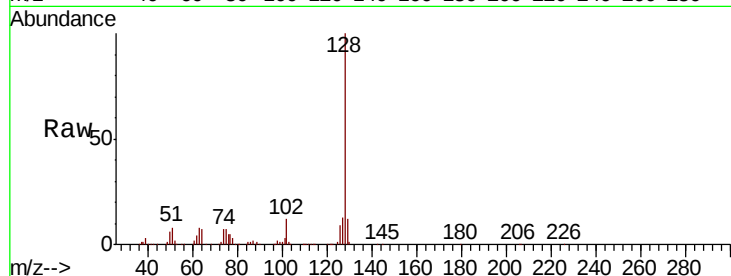
#79
Naphthalene
Concen: 12.338 ppbv
RT: 22.29 min Scan# 6066
Delta R.T. 0.01 min
Lab File: VL034541.D
Acq: 31 Dec 2019 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.6	15.8
129	11.8	8.7	13.1

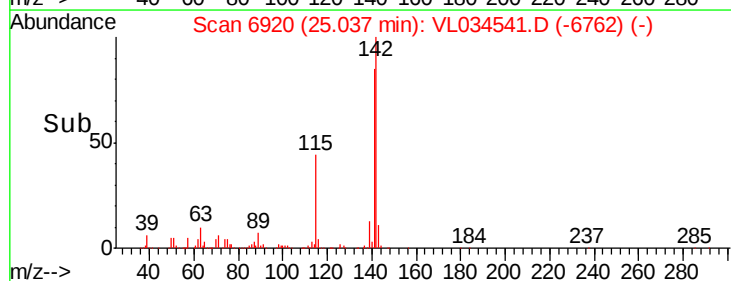
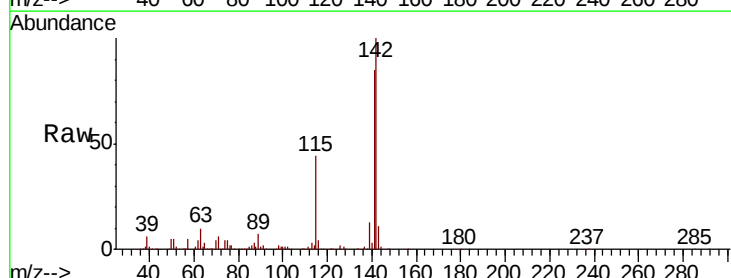
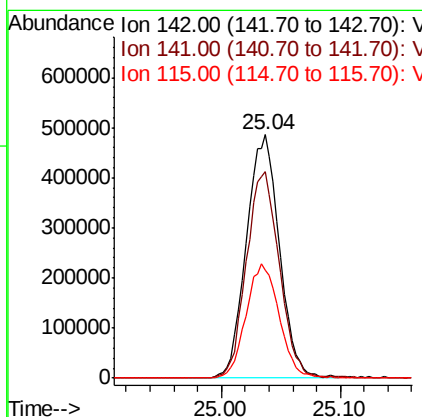
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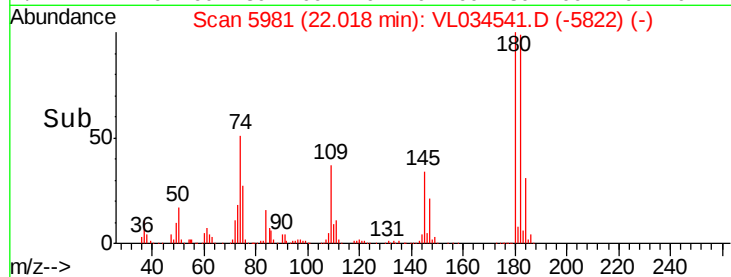
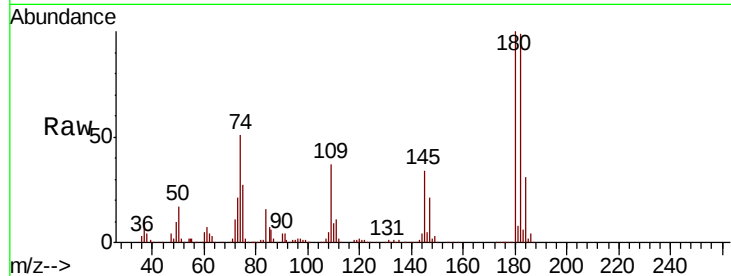
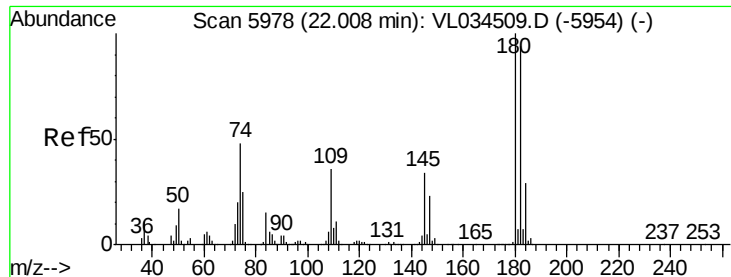
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#80
Naphthalene, 2-methyl-
Concen: 14.915 ppbv
RT: 25.04 min Scan# 6920
Delta R.T. 0.01 min
Lab File: VL034541.D
Acq: 31 Dec 2019 10:20

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.0	65.8	98.8
115	47.2	30.4	45.6





#81
 1,2,4-Trichlorobenzene
 Concen: 11.252 ppbv
 RT: 22.02 min Scan# 5981
 Delta R.T. 0.01 min
 Lab File: VL034541.D
 Acq: 31 Dec 2019 10:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.9	77.8	116.8
184	31.0	25.2	37.8

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