

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120219\
 Data File : VL034451.D
 Acq On : 3 Dec 2019 7:06
 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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Quant Time: Dec 03 07:59:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 19 14:15:35 2019
 QLast Update : Tue Nov 19 14:15:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	744762	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	1499168	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.15	117	1644285	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.49	95	1286063	9.30	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	1781245	13.220	ppbv 98
3) Chlorodifluoromethane	2.97	51	1114409	11.993	ppbv 98
4) Chloromethane	3.12	50	586913	10.708	ppbv 96
5) Vinyl Chloride	3.24	62	561243	10.929	ppbv 95
6) Bromomethane	3.46	94	324576	12.562	ppbv 90
7) Chloroethane	3.55	64	209954	11.264	ppbv 91
8) Dichlorotetrafluoroethane	3.17	85	1364402	11.277	ppbv 100
9) Propene	2.99	41	445958	10.810	ppbv 100
10) Heptane	8.16	43	1197461	11.247	ppbv 99
11) Trichlorofluoromethane	3.94	101	1538085	11.471	ppbv 93
12) 1,1,2-Trichlorotrifluoroet	4.49	101	1021083	11.467	ppbv 100
13) Ethanol	3.59	45	101387	8.822	ppbv 96
14) Bromoethene	3.73	108	409301	11.304	ppbv 99
15) Acetone	3.84	43	1105377	10.365	ppbv 99
16) 1,3-Butadiene	3.31	39	532145	11.455	ppbv 99
17) tert-Butyl alcohol	4.29	59	820212	9.150	ppbv 100
18) 1,1-Dichloroethene	4.29	96	449965	11.552	ppbv 93
19) Isopropyl Alcohol	3.97	45	669031	9.787	ppbv 99
20) Methylene Chloride	4.35	84	391049	10.341	ppbv 92
21) Allyl Chloride	4.41	41	761927	11.923	ppbv 99
22) trans-1,2-Dichloroethene	4.90	96	456120	11.616	ppbv 97
23) Vinyl Acetate	5.09	43	1688818	12.122	ppbv 99
24) 1,1-Dichloroethane	5.02	63	1213976	11.344	ppbv 99
25) Ethyl Acetate	5.69	43	2064588	10.849	ppbv 100
26) Hexane	5.71	57	891501	10.902	ppbv 99
27) Carbon Disulfide	4.55	76	1111465	12.479	ppbv 99
28) Methyl tert-Butyl Ether	5.04	73	1571134	11.587	ppbv 99
29) Chloroform	5.78	83	1475856	11.145	ppbv 95
30) Cyclohexane	7.17	84	708219	11.456	ppbv 99
31) cis-1,2-Dichloroethene	5.57	61	967874	11.454	ppbv 97
32) 1,1,1-Trichloroethane	6.55	97	1527664	12.304	ppbv 99
34) 2-Butanone	5.26	43	1373646	11.132	ppbv 98
35) Carbon Tetrachloride	7.05	117	1573458	12.207	ppbv 97
36) Benzene	6.93	78	1682995	11.230	ppbv 97
37) 1,2-Dichloroethane	6.34	62	1294574	11.628	ppbv 100
38) Trichloroethene	7.88	130	669116	10.880	ppbv 97
39) 1,2-Dichloropropane	7.65	63	712829	12.346	ppbv 99
40) 1,4-Dioxane	7.87	88	242718	9.624	ppbv # 98
41) Tetrahydrofuran	6.07	42	774117	11.184	ppbv 99
42) Bromodichloromethane	7.84	83	1654266	11.881	ppbv 99
43) Methyl Methacrylate	8.06	69	722173	11.618	ppbv 98

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 VSTDCCC010EC

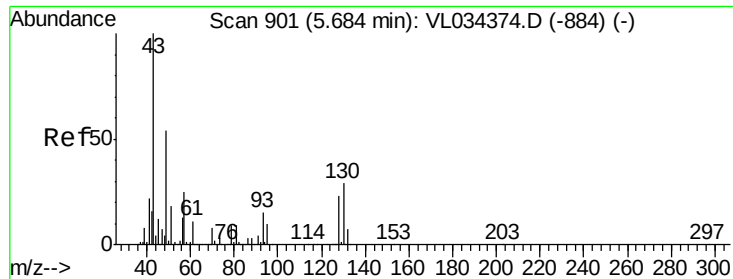
Manual Integrations
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Quant Time: Dec 03 07:59:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.91	57	3071193	11.214	ppbv	99
45) t-1,3-Dichloropropene	9.33	75	957979	12.018	ppbv	97
46) cis-1,3-Dichloropropene	8.75	75	1061835	11.859	ppbv	96
47) 1,1,2-Trichloroethane	9.53	97	723112	11.259	ppbv	93
48) Dibromochloromethane	10.37	129	1364037	12.370	ppbv	100
49) Bromoform	13.11	173	1211909	12.311	ppbv	99
50) 4-Methyl-2-Pentanone	8.78	43	2073047	11.611	ppbv	100
51) 2-Hexanone	10.18	43	1735487	11.605	ppbv #	97
52) Tetrachloroethene	11.28	164	637423	9.830	ppbv	96
53) Toluene	9.86	91	1948723	11.448	ppbv	100
54) 1,2-Dibromoethane	10.67	107	1150915	11.689	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.19	131	929187	11.553	ppbv	99
57) Chlorobenzene	12.21	112	1502594	10.109	ppbv	98
58) Ethyl Benzene	12.78	91	2728526	10.693	ppbv	96
59) m/p-Xylene	13.04	91	4600488m	20.857	ppbv	
60) o-Xylene	13.76	91	2332849	10.697	ppbv	98
61) Styrene	13.60	104	1632658	10.381	ppbv	100
62) Isopropylbenzene	14.74	105	3066899	10.633	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.75	83	1659186	10.121	ppbv	100
64) n-propylbenzene	15.64	120	798813	10.665	ppbv	98
65) tert-Butylbenzene	16.82	119	2761156	10.657	ppbv	99
66) Benzyl Chloride	17.07	91	1269850	12.740	ppbv	99
67) sec-Butylbenzene	17.37	105	3870811	10.681	ppbv	99
69) p-Isopropyltoluene	17.73	119	3197268	10.630	ppbv	100
70) n-Butylbenzene	18.63	91	3425689	10.585	ppbv	99
71) 2-Chlorotoluene	15.53	91	2407072	10.466	ppbv	100
72) 4-Ethyltoluene	15.91	105	2659476	10.554	ppbv	99
73) 1,3,5-Trimethylbenzene	16.08	105	2584985	10.480	ppbv	95
74) 1,2,4-Trimethylbenzene	16.84	105	2655827	10.136	ppbv	98
75) 1,3-Dichlorobenzene	17.08	146	1477560	9.811	ppbv	99
76) 1,4-Dichlorobenzene	17.22	146	1482312	10.136	ppbv	100
77) 1,2-Dichlorobenzene	17.90	146	1475768	10.145	ppbv	100
78) Hexachloro-1,3-Butadiene	23.46	225	1270502	10.166	ppbv	99
79) Naphthalene	22.30	128	2243307	9.876	ppbv	99
80) Naphthalene, 2-methyl-	25.04	142	579630	5.651	ppbv	99
81) 1,2,4-Trichlorobenzene	22.03	180	1270421	9.104	ppbv	100

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



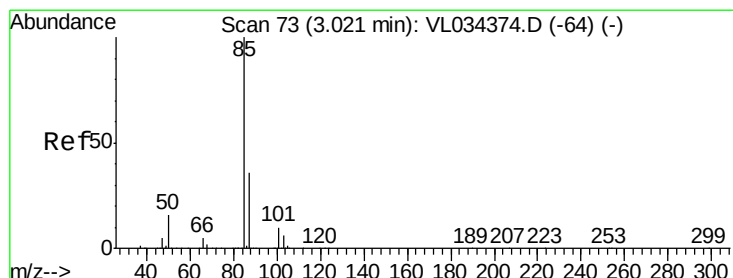
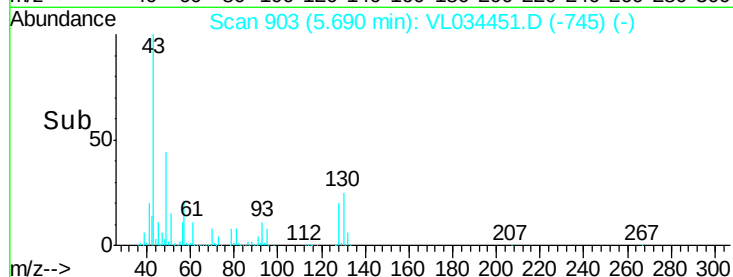
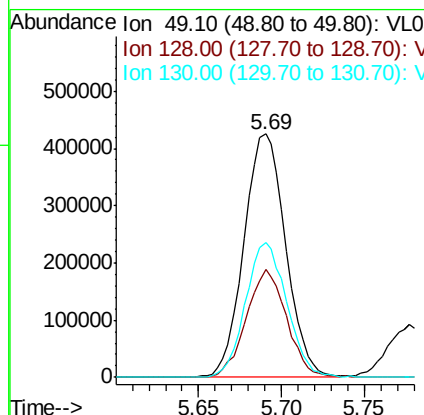
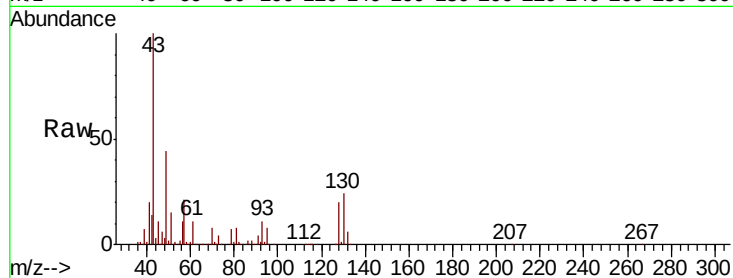
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Bromochloromethane
Concen: 10.000 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL034451.D
Acq: 3 Dec 2019 7:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
49	100		
128	42.8	21.8	65.3
130	54.8	28.0	84.0

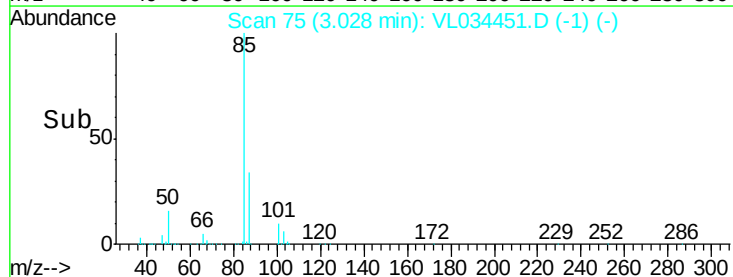
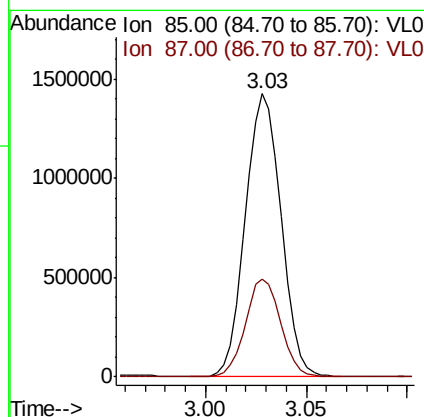
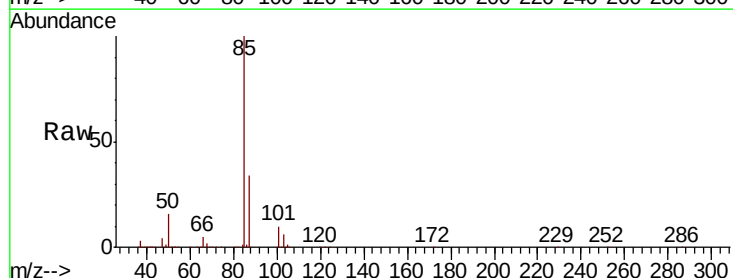
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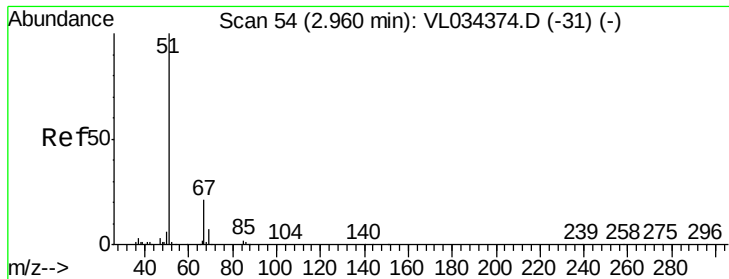
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#2
Dichlorodifluoromethane
Concen: 13.220 ppbv
RT: 3.03 min Scan# 75
Delta R.T. 0.01 min
Lab File: VL034451.D
Acq: 3 Dec 2019 7:06

Tgt Ion	Ratio	Lower	Upper
85	100		
87	34.4	28.5	42.7





#3

Chlorodifluoromethane

Concen: 11.993 ppbv

RT: 2.97 min Scan# 56

Delta R.T. 0.01 min

Lab File: VL034451.D

Acq: 3 Dec 2019 7:06

Tot Ion: 51 Resp: 1114409

Ion Ratio Lower Upper

51 100

67 21.3 16.2 24.2

Instrument :

MSVOA_L

ClientSampleId :

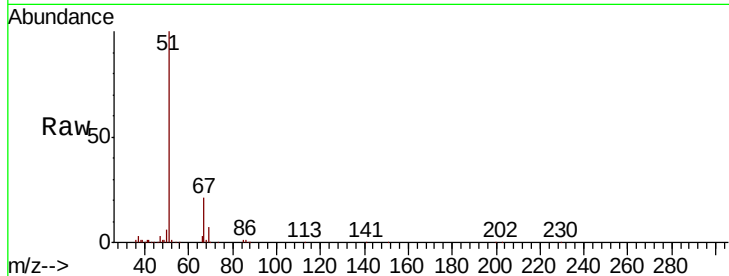
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Manual Integrations

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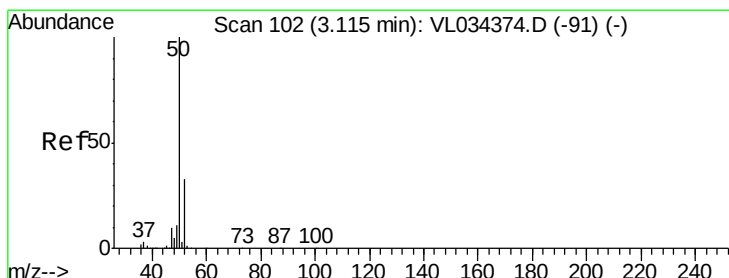
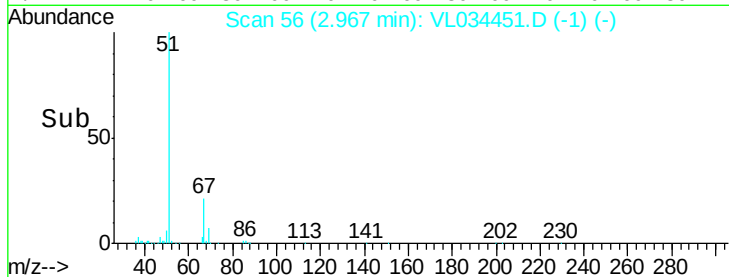
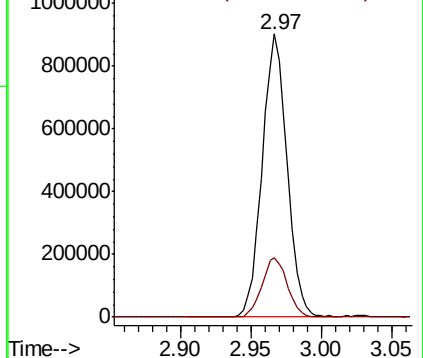
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 10.708 ppbv

RT: 3.12 min Scan# 104

Delta R.T. 0.01 min

Lab File: VL034451.D

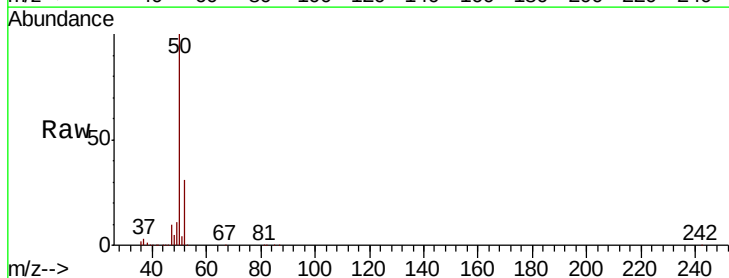
Acq: 3 Dec 2019 7:06

Tgt Ion: 50 Resp: 586913

Ion Ratio Lower Upper

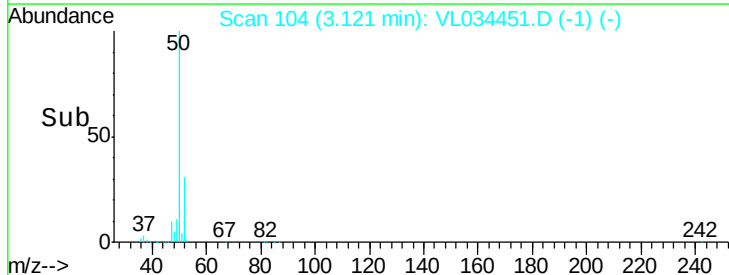
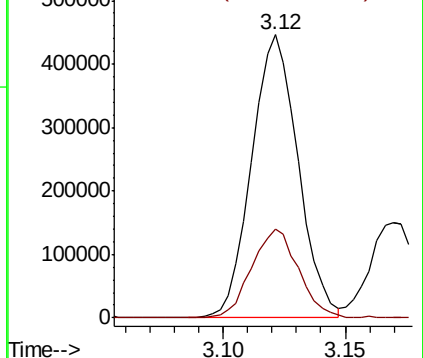
50 100

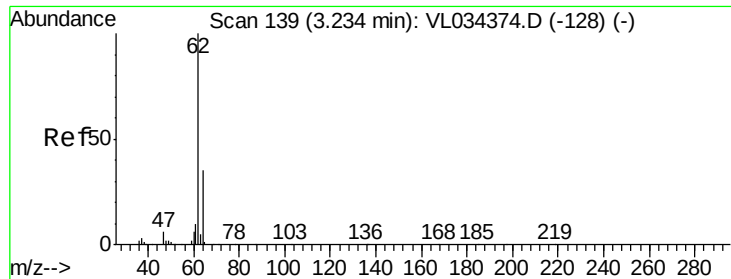
52 31.4 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 10.929 ppbv

RT: 3.24 min Scan# 141

Delta R.T. 0.01 min

Lab File: VL034451.D

Acq: 3 Dec 2019 7:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 561243

Ion Ratio Lower Upper

62 100

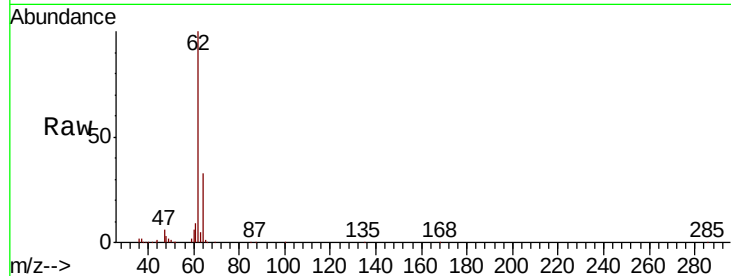
64 32.6 28.4 42.6

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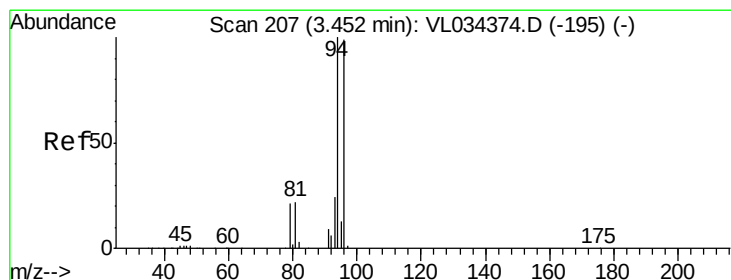
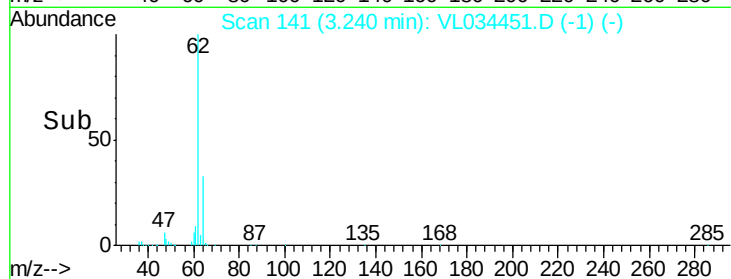
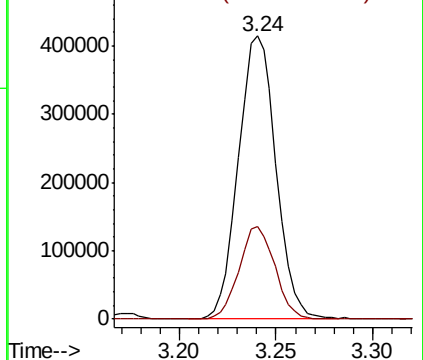
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 12.562 ppbv

RT: 3.46 min Scan# 210

Delta R.T. 0.01 min

Lab File: VL034451.D

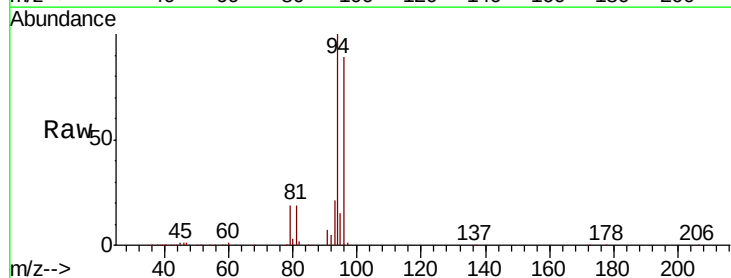
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Tgt Ion: 94 Resp: 324576

Ion Ratio Lower Upper

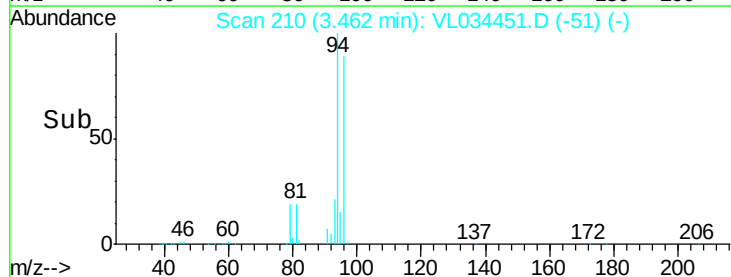
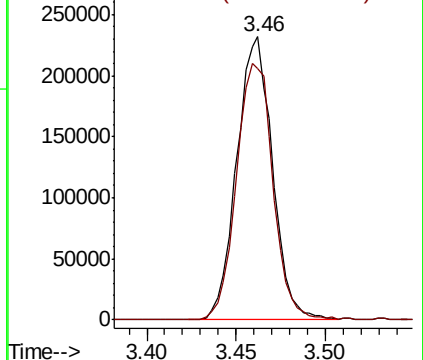
94 100

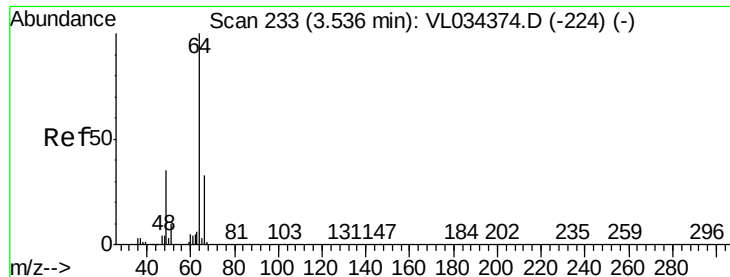
96 89.0 79.5 119.3



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 11.264 ppbv

RT: 3.55 min Scan# 237

Delta R.T. 0.01 min

Lab File: VL034451.D

Acq: 3 Dec 2019 7:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 209954

Ion Ratio Lower Upper

64 100

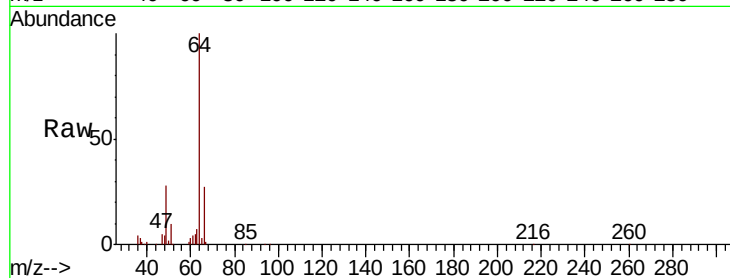
66 27.4 26.0 39.0

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.55

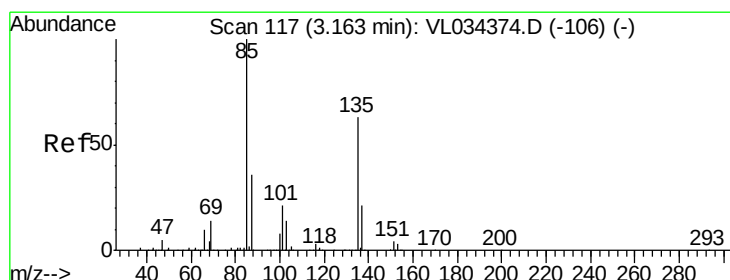
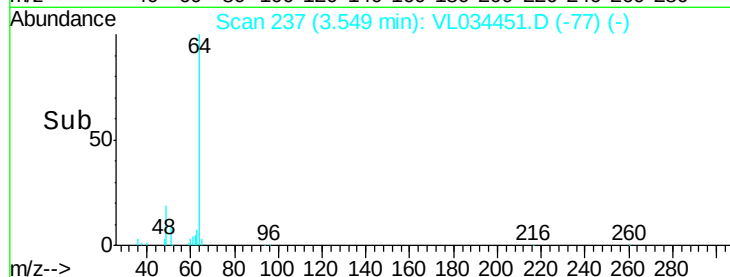
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 11.277 ppbv

RT: 3.17 min Scan# 119

Delta R.T. 0.01 min

Lab File: VL034451.D

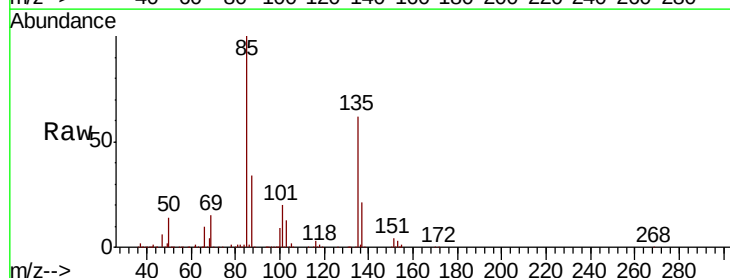
Acq: 3 Dec 2019 7:06

Tgt Ion: 85 Resp: 1364402

Ion Ratio Lower Upper

85 100

135 63.7 51.1 76.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.17

1200000

1000000

800000

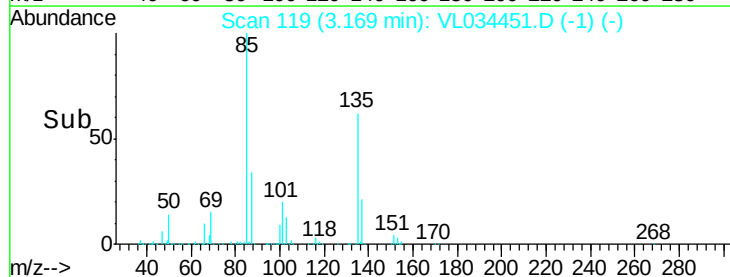
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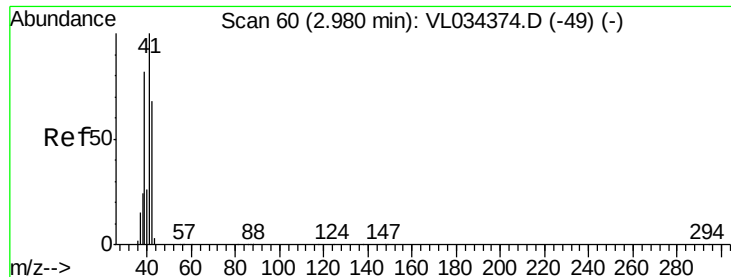
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Time-->





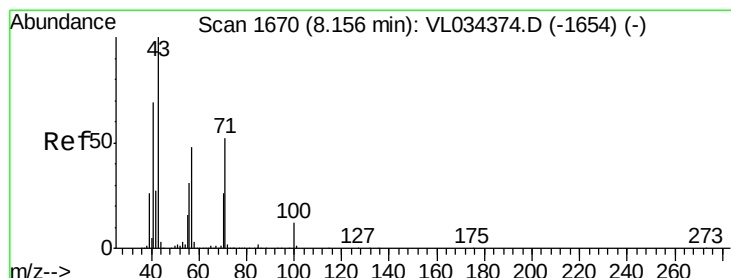
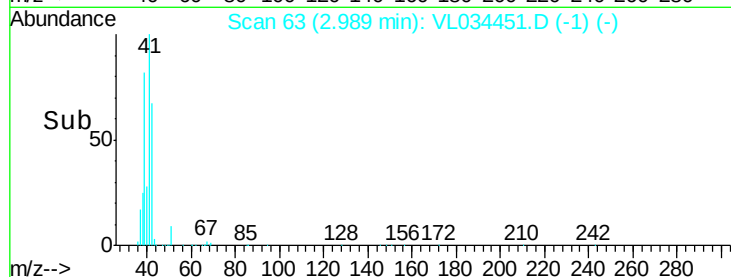
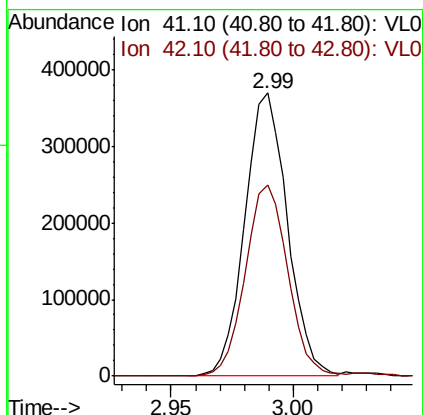
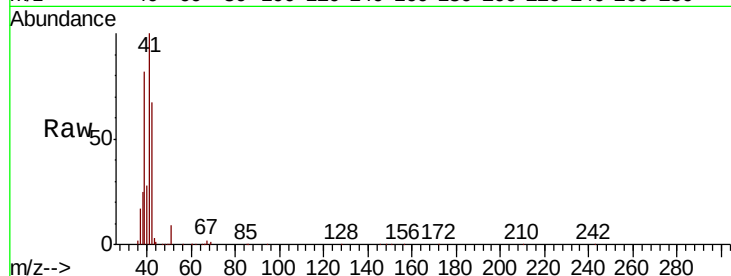
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 Propene
 Concen: 10.810 ppbv
 RT: 2.99 min Scan# 63
 Delta R.T. 0.01 min
 Lab File: VL034451.D
 Acq: 3 Dec 2019 7:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 41 Resp: 445958
 Ion Ratio Lower Upper
 41 100
 42 68.5 54.6 82.0

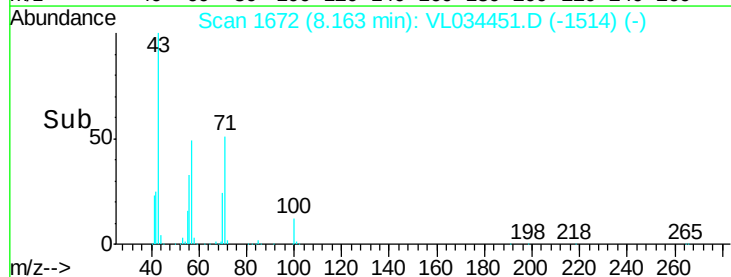
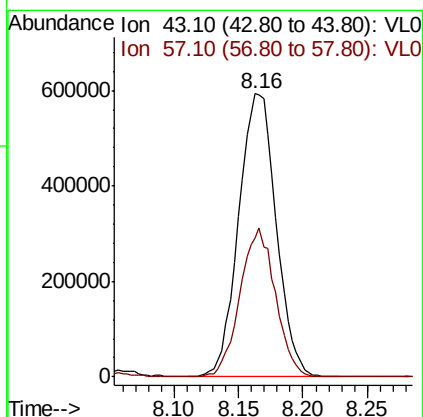
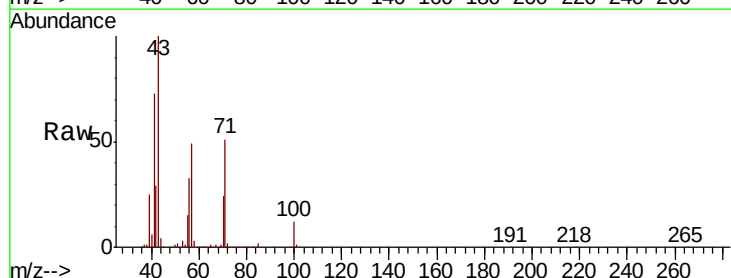
Manual Integrations
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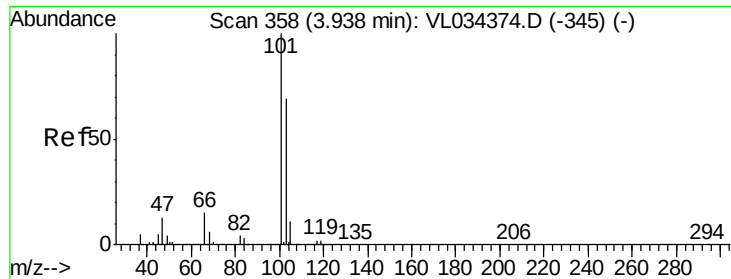
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#10
 Heptane
 Concen: 11.247 ppbv
 RT: 8.16 min Scan# 1672
 Delta R.T. 0.01 min
 Lab File: VL034451.D
 Acq: 3 Dec 2019 7:06

Tgt Ion: 43 Resp: 1197461
 Ion Ratio Lower Upper
 43 100
 57 49.6 40.2 60.2





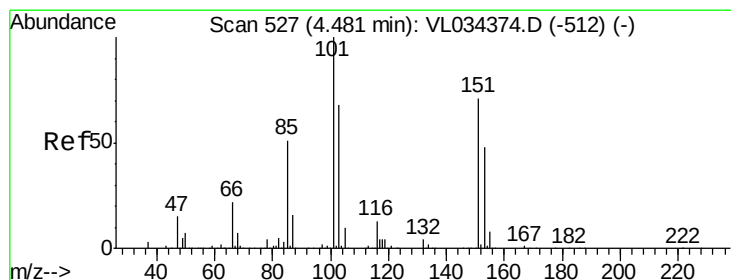
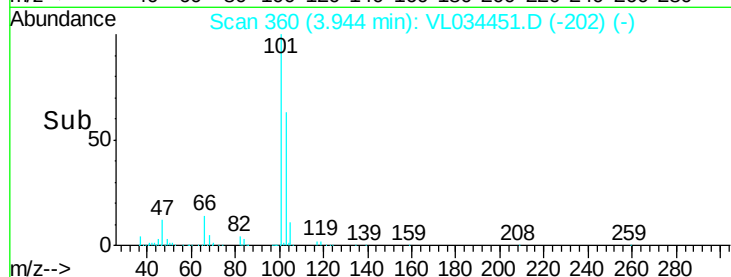
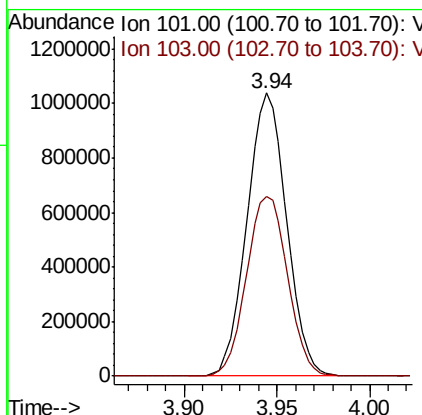
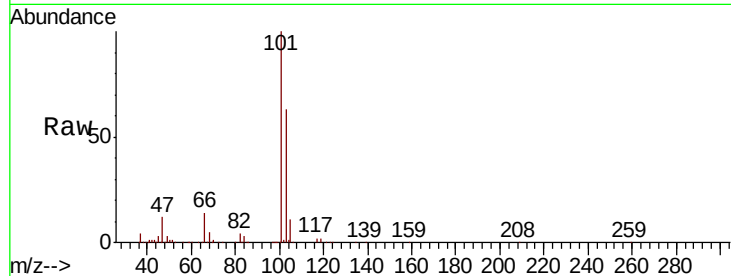
#11
 Trichlorofluoromethane
 Concen: 11.471 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. 0.01 min
 Lab File: VL034451.D
 Acq: 3 Dec 2019 7:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 1538085
 Ion Ratio Lower Upper
 101 100
 103 63.3 55.4 83.0

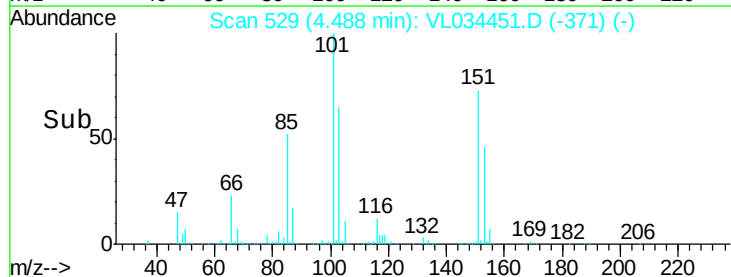
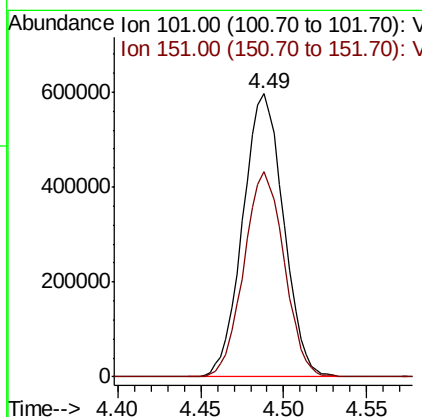
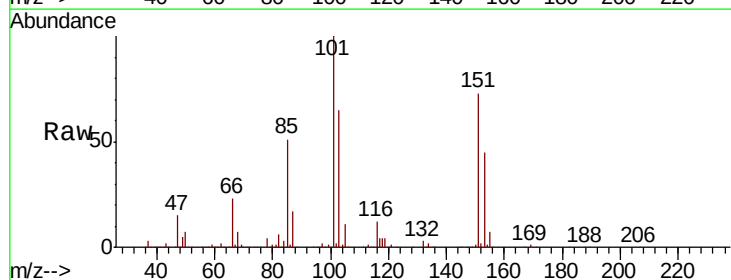
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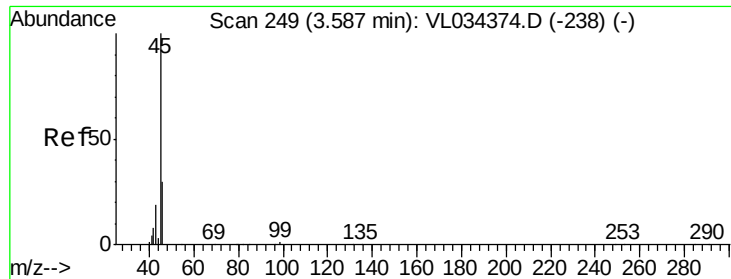
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 11.467 ppbv
 RT: 4.49 min Scan# 529
 Delta R.T. 0.01 min
 Lab File: VL034451.D
 Acq: 3 Dec 2019 7:06

Tgt Ion:101 Resp: 1021083
 Ion Ratio Lower Upper
 101 100
 151 71.7 57.4 86.2





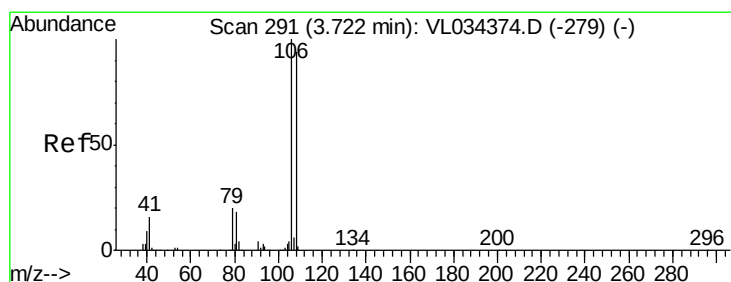
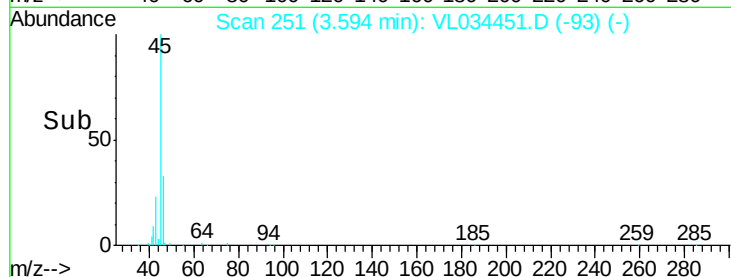
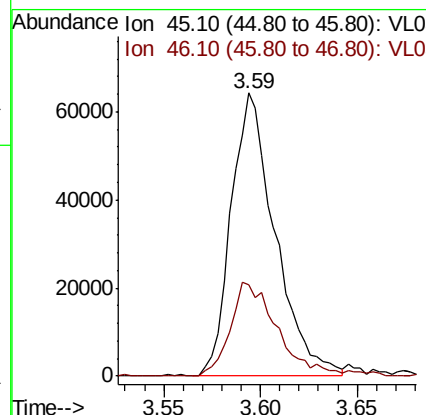
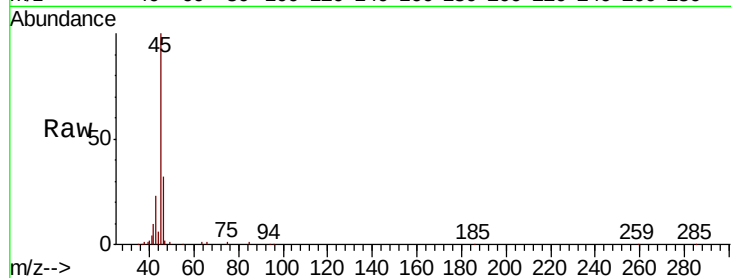
#13
Ethanol
Concen: 8.822 ppbv
RT: 3.59 min Scan# 251
Delta R.T. 0.01 min
Lab File: VL034451.D
Acq: 3 Dec 2019 7:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	45	46	Ratio	Lower	Upper
101387	100	36.7		13.8	55.4

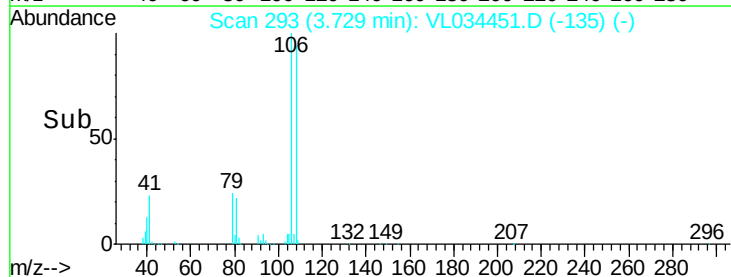
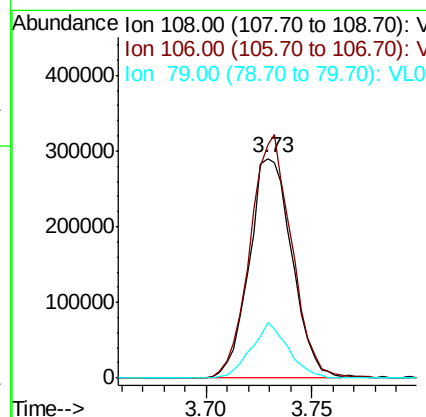
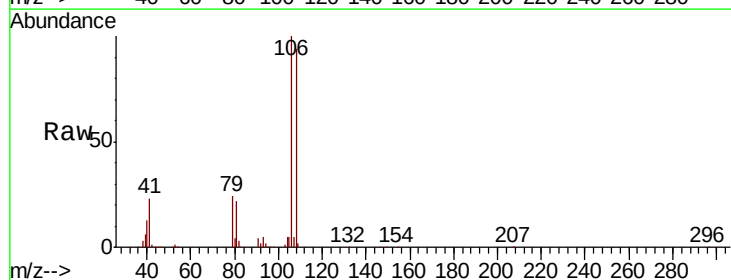
Manual Integrations
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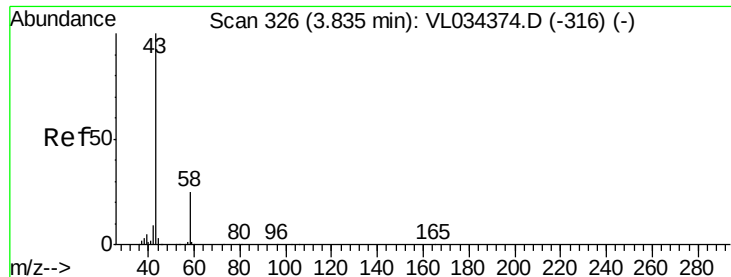
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#14
Bromoethene
Concen: 11.304 ppbv
RT: 3.73 min Scan# 293
Delta R.T. 0.01 min
Lab File: VL034451.D
Acq: 3 Dec 2019 7:06

Tgt Ion	108	106	79	Ratio	Lower	Upper
409301	100	108.1	22.1		85.7	128.5
					17.2	25.8





#15

Acetone

Concen: 10.365 ppbv

RT: 3.84 min Scan# 329

Delta R.T. 0.01 min

Lab File: VL034451.D

Acq: 3 Dec 2019 7:06

Tot Ion: 43 Resp: 1105377

Ion Ratio Lower Upper

43 100

58 24.9 20.2 30.4

Instrument :

MSVOA_L

ClientSampleId :

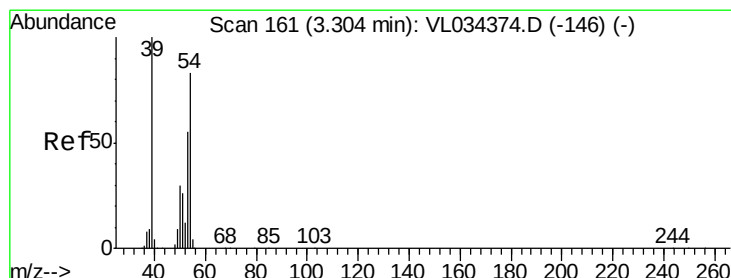
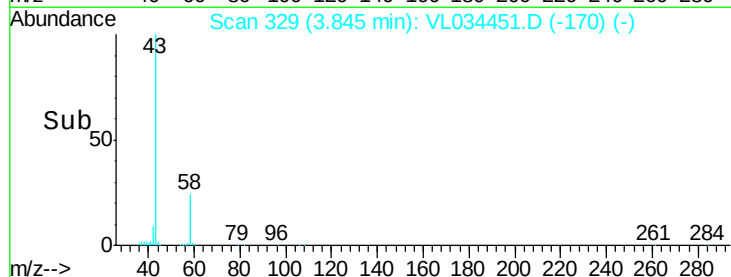
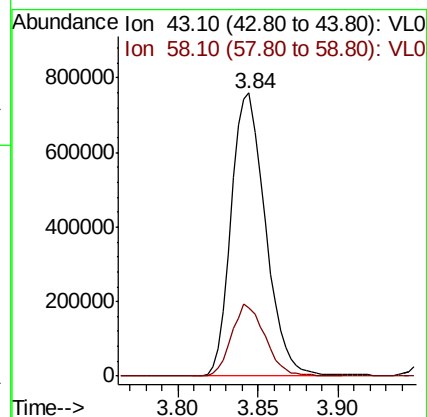
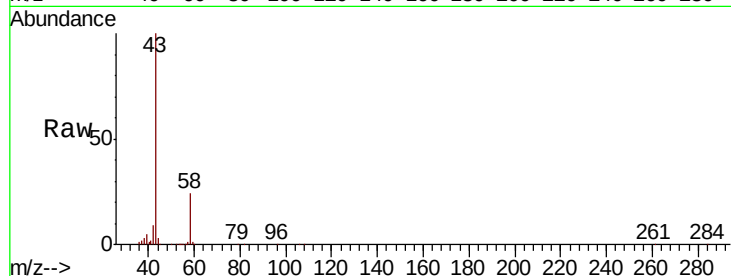
VSTDCCC010EC

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#16

1,3-Butadiene

Concen: 11.455 ppbv

RT: 3.31 min Scan# 163

Delta R.T. 0.01 min

Lab File: VL034451.D

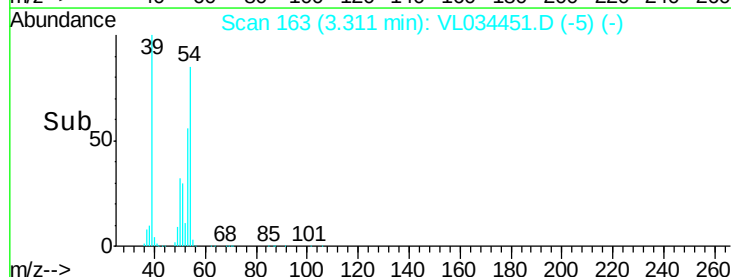
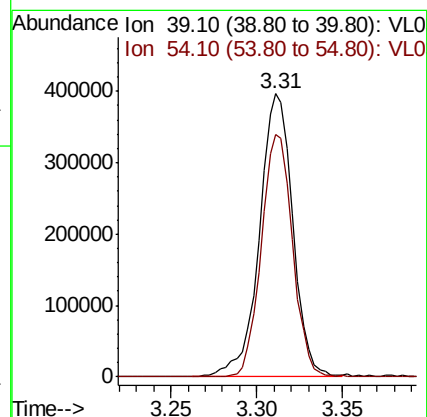
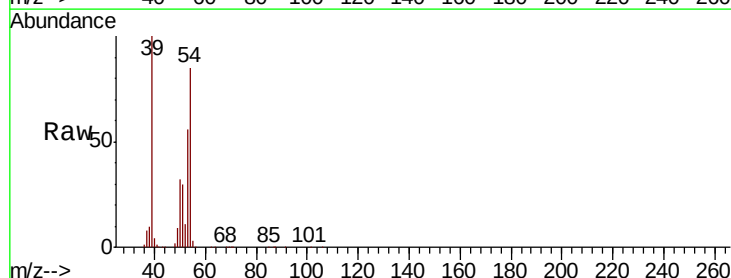
Acq: 3 Dec 2019 7:06

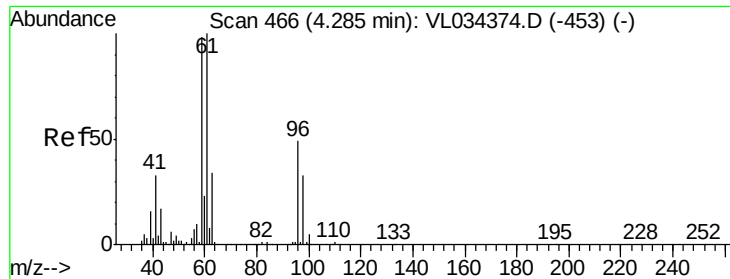
Tgt Ion: 39 Resp: 532145

Ion Ratio Lower Upper

39 100

54 80.4 64.7 97.1





#17

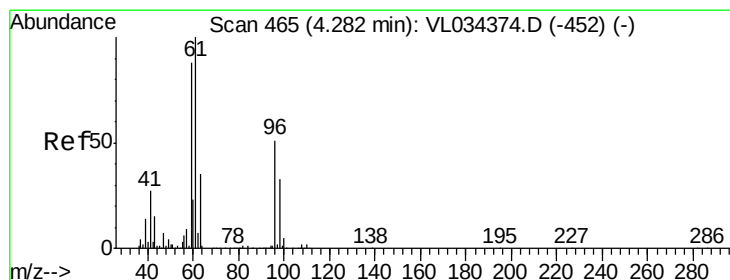
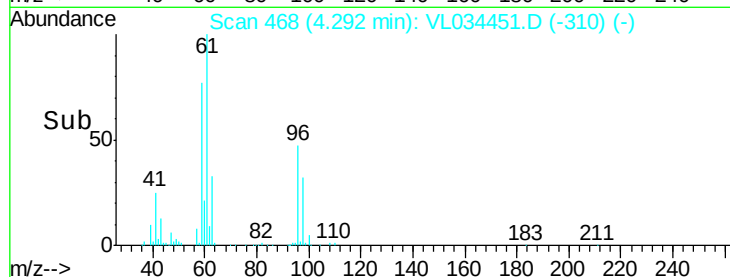
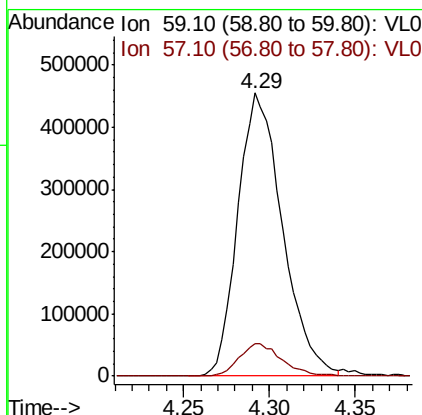
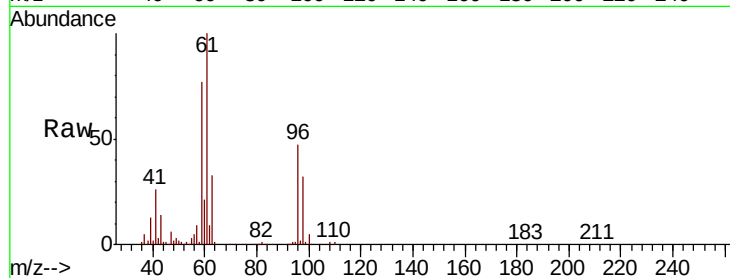
tert-Butyl alcohol
Concen: 9.150 ppbv
RT: 4.29 min Scan# 468
Delta R.T. 0.01 min
Lab File: VL034451.D
Acq: 3 Dec 2019 7:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	59	Ratio	59	Resp	820212
Ion	59	100		Lower	Upper
	57	11.1		8.8	13.2

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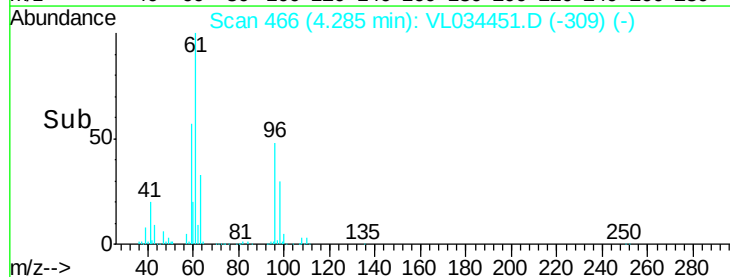
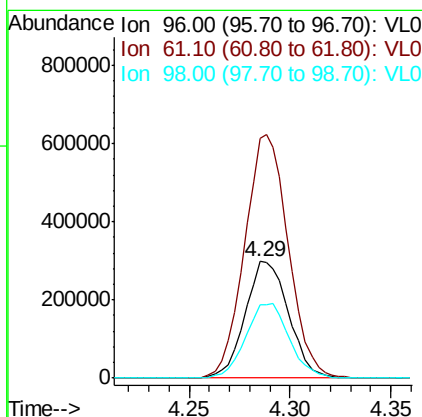
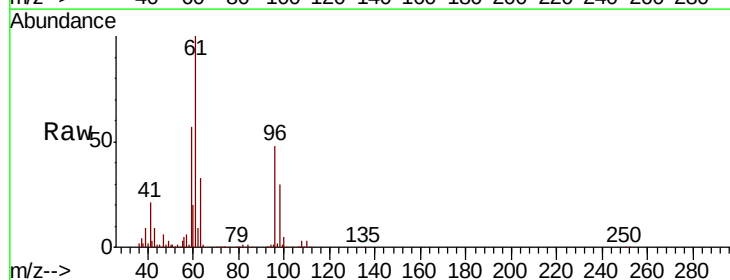
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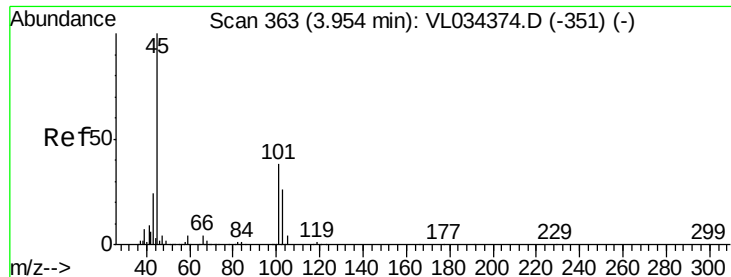


#18

1,1-Dichloroethene
Concen: 11.552 ppbv
RT: 4.29 min Scan# 466
Delta R.T. 0.00 min
Lab File: VL034451.D
Acq: 3 Dec 2019 7:06

Tgt Ion	96	Ratio	96	Resp	449965
Ion	96	100		Lower	Upper
	61	206.2		155.6	233.4
	98	62.7		51.6	77.4





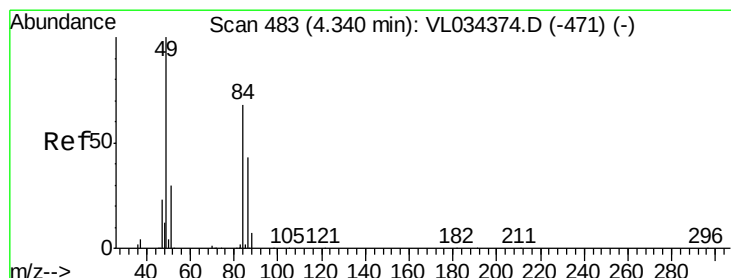
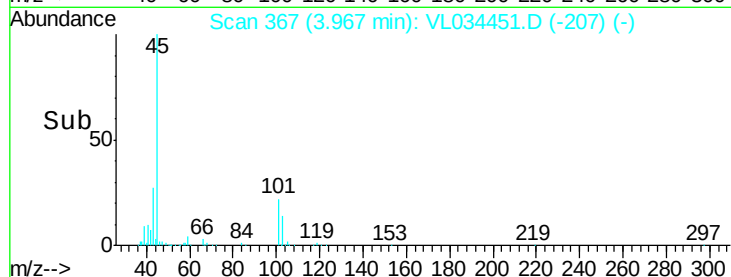
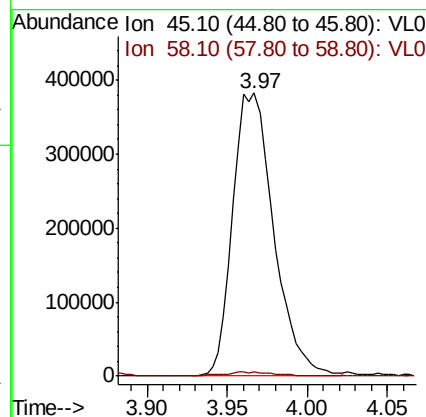
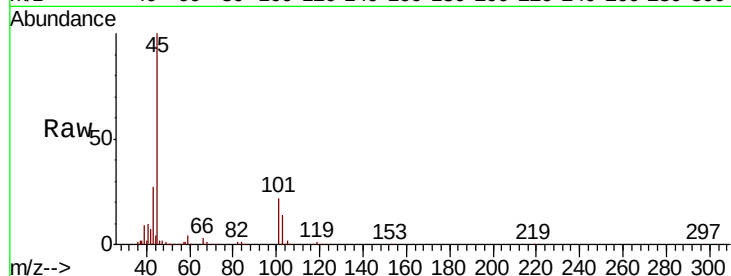
#19
Isopropyl Alcohol
Concen: 9.787 ppbv
RT: 3.97 min Scan# 367
Delta R.T. 0.01 min
Lab File: VL034451.D
Acq: 3 Dec 2019 7:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
45	100		
58	1.8	1.3	1.9

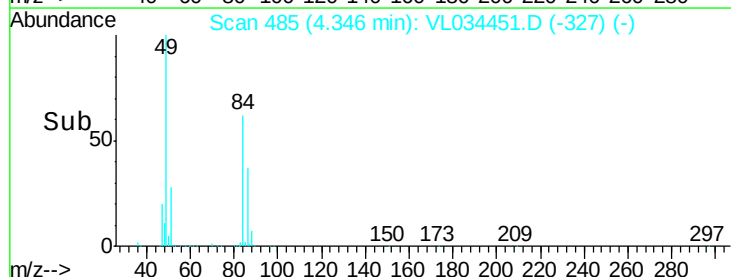
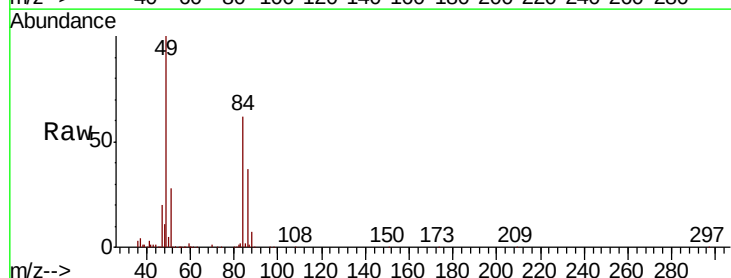
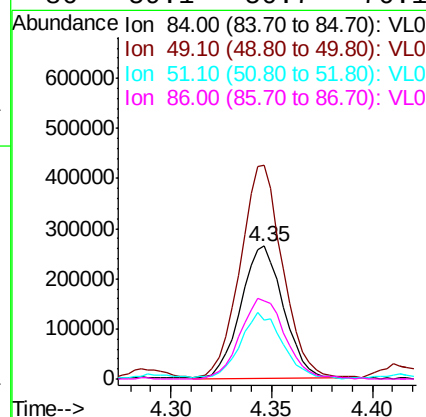
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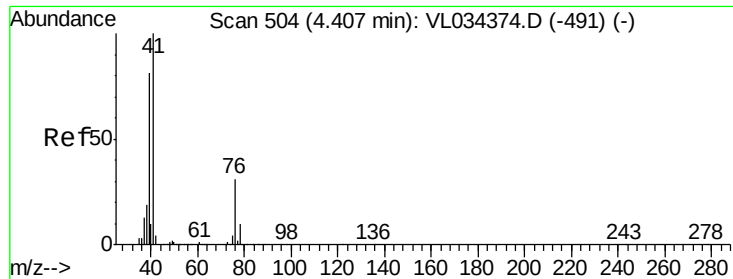
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#20
Methylene Chloride
Concen: 10.341 ppbv
RT: 4.35 min Scan# 485
Delta R.T. 0.01 min
Lab File: VL034451.D
Acq: 3 Dec 2019 7:06

Tgt Ion	Ratio	Lower	Upper
84	100		
49	160.7	116.8	175.2
51	44.1	35.6	53.4
86	59.1	50.7	76.1





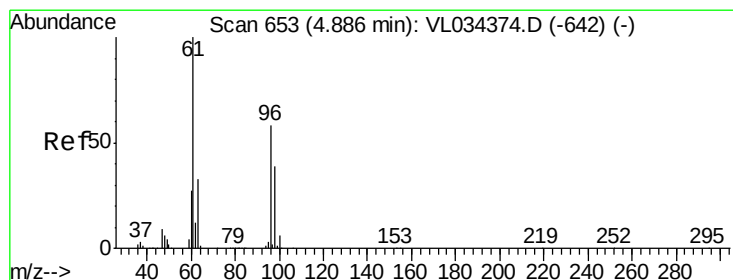
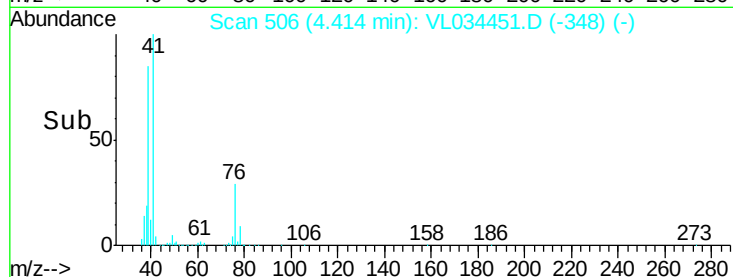
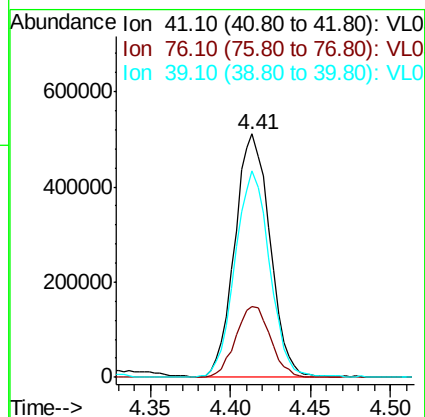
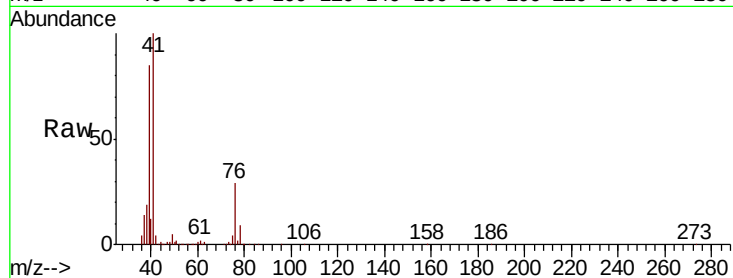
#21
Allvl Chloride
Concen: 11.923 ppbv
RT: 4.41 min Scan# 506
Delta R.T. 0.01 min
Lab File: VL034451.D
Acq: 3 Dec 2019 7:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	29.0	24.2	36.2
39	83.4	66.9	100.3

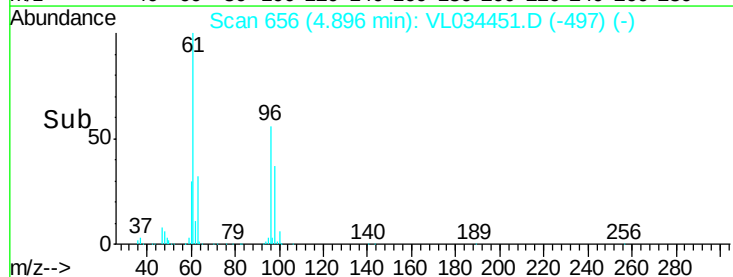
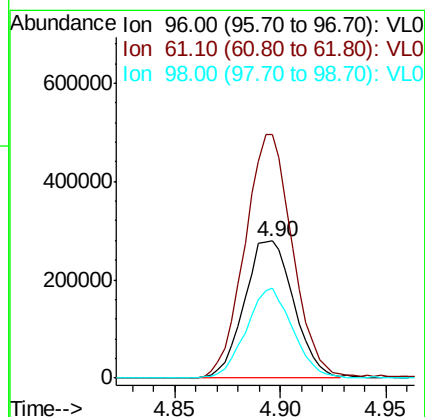
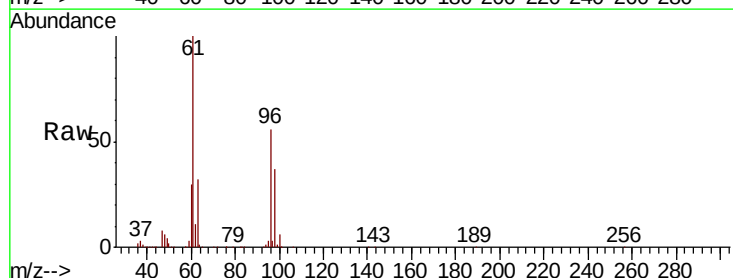
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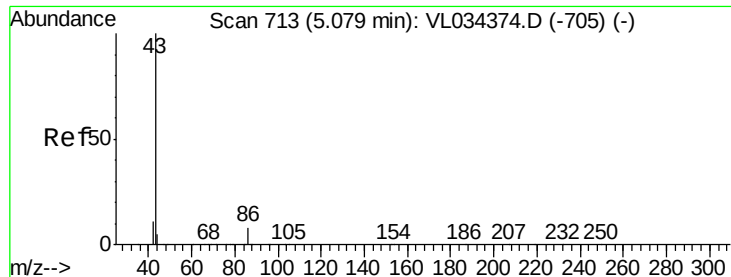
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#22
trans-1,2-Dichloroethene
Concen: 11.616 ppbv
RT: 4.90 min Scan# 656
Delta R.T. 0.01 min
Lab File: VL034451.D
Acq: 3 Dec 2019 7:06

Tgt Ion	Ratio	Lower	Upper
96	100		
61	177.9	137.9	206.9
98	65.9	53.5	80.3





#23

Vinyl Acetate

Concen: 12.122 ppbv

RT: 5.09 min Scan# 715

Delta R.T. 0.01 min

Lab File: VL034451.D

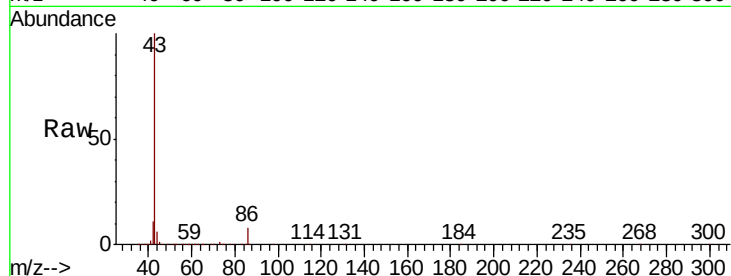
Acq: 3 Dec 2019 7:06

Tot Ion:	43	Resp:	1688818
Ion	Ratio	Lower	Upper
43	100		
86	8.0	5.8	8.6
42	11.2	8.9	13.3
44	5.7	4.0	6.0

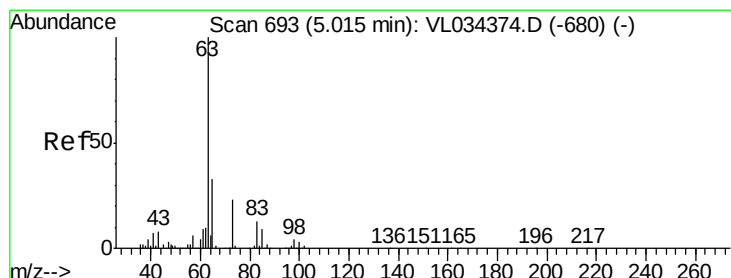
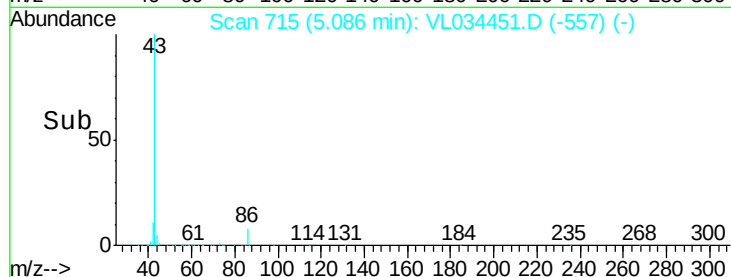
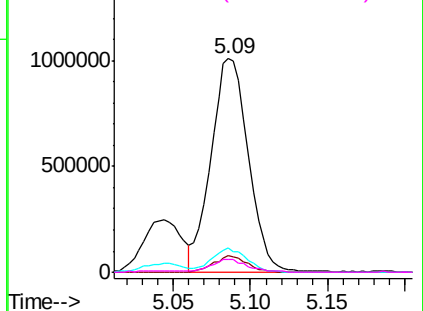
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

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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: 11.344 ppbv

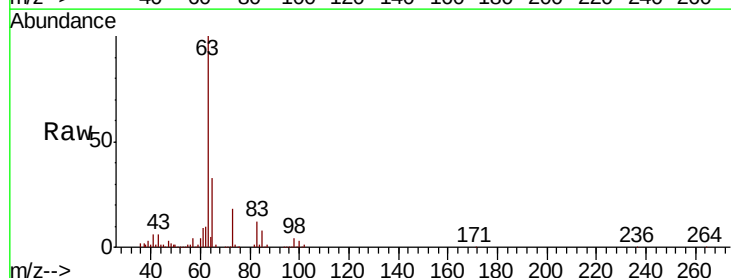
RT: 5.02 min Scan# 695

Delta R.T. 0.01 min

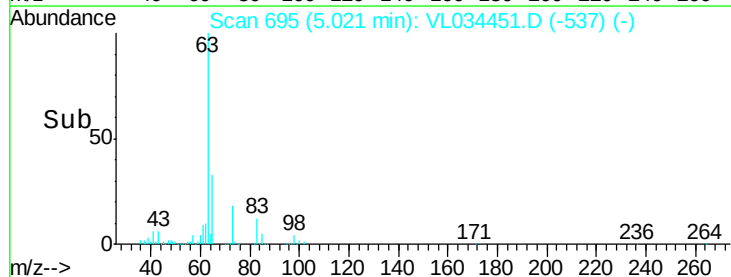
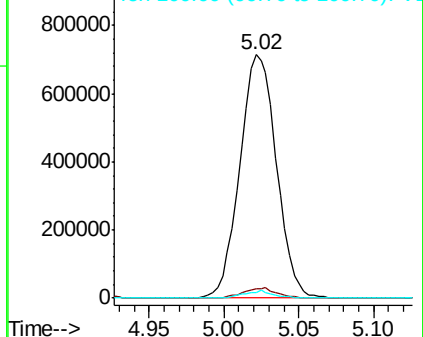
Lab File: VL034451.D

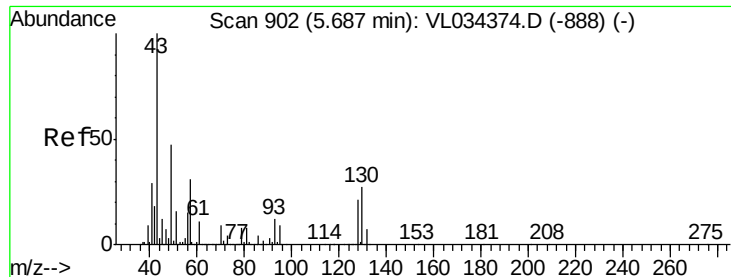
Acq: 3 Dec 2019 7:06

Tgt Ion:	63	Resp:	1213976
Ion	Ratio	Lower	Upper
63	100		
98	4.0	1.9	5.7
100	2.5	1.4	4.0



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





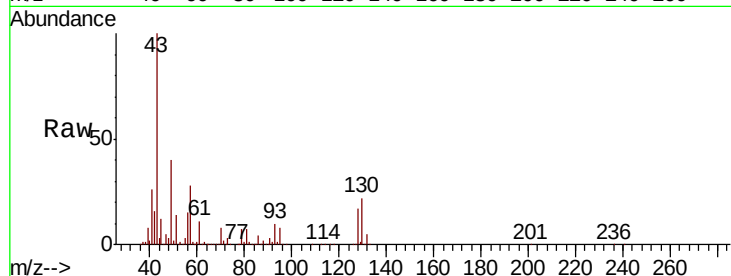
#25
Ethyl Acetate
Concen: 10.849 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.01 min
Lab File: VL034451.D
Acq: 3 Dec 2019 7:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	43	Resp	2064588
Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.2	12.4
61	9.3	7.5	11.3
70	6.9	5.7	8.5

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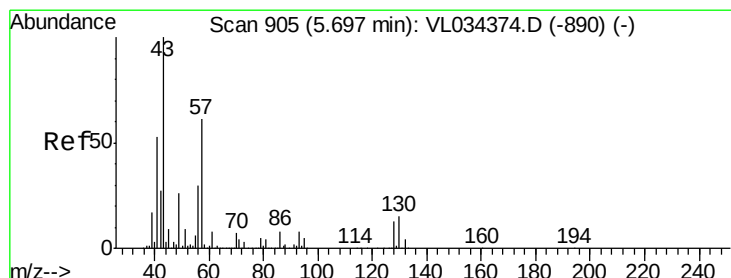
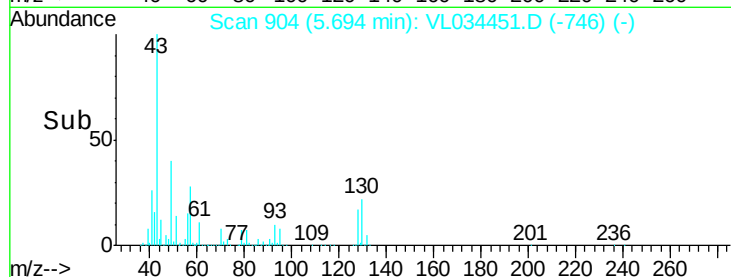
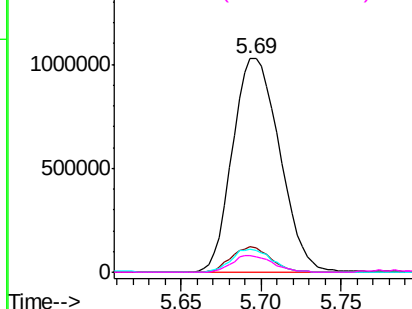
Abundance

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: 10.902 ppbv
RT: 5.71 min Scan# 908
Delta R.T. 0.01 min
Lab File: VL034451.D
Acq: 3 Dec 2019 7:06

Tgt Ion	57	Resp	891501
Ion	Ratio	Lower	Upper
57	100		
41	95.8	75.0	112.4
43	233.1	186.6	279.8
56	53.6	41.5	62.3

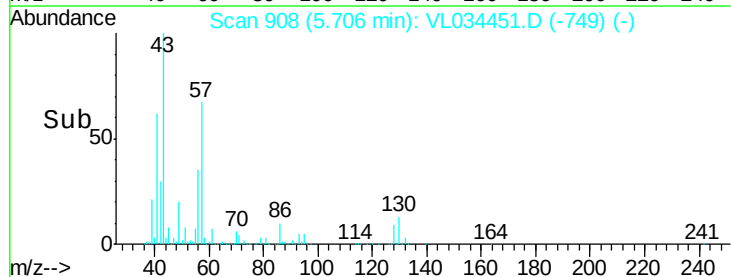
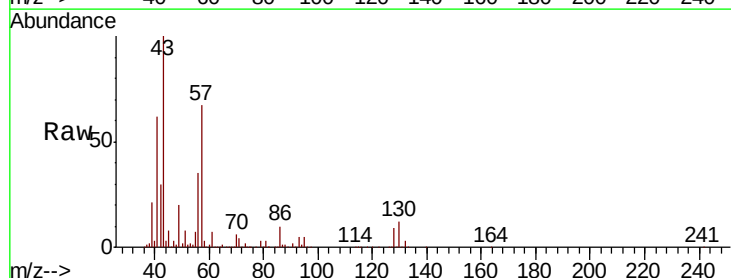
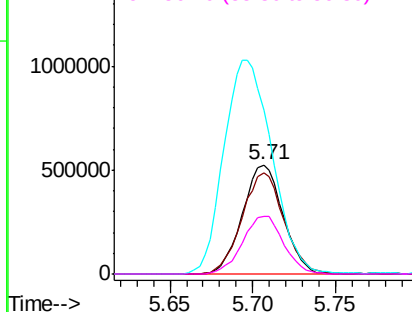
Abundance

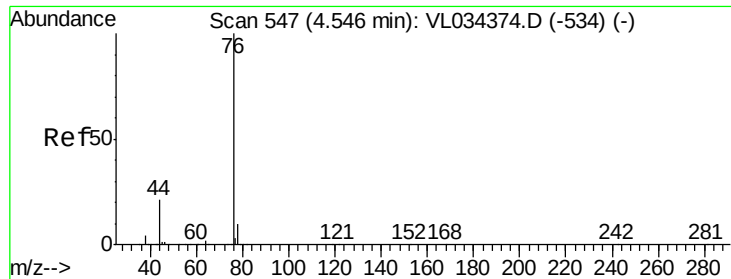
Ion 57.10 (56.80 to 57.80): VL0

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: 12.479 ppbv

RT: 4.55 min Scan# 549

Delta R.T. 0.01 min

Lab File: VL034451.D

Acq: 3 Dec 2019 7:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1111465

Ion Ratio Lower Upper

76 100

44 20.6 17.0 25.4

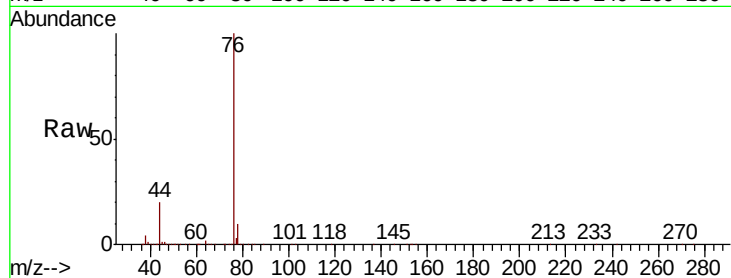
78 9.2 7.6 11.4

Manual Integrations

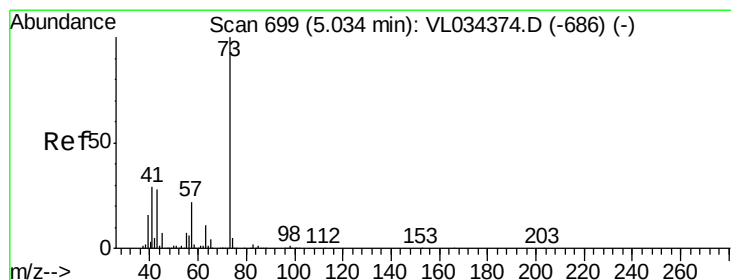
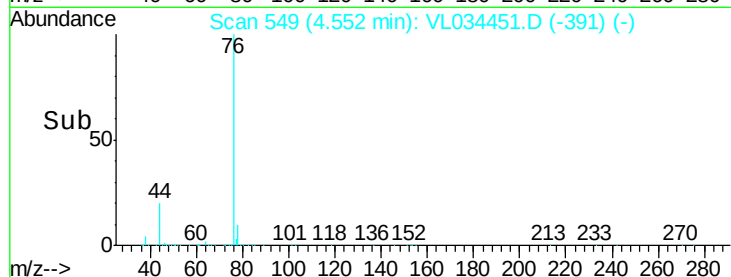
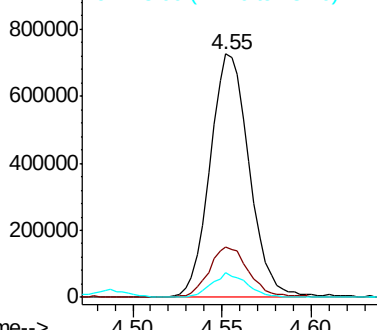
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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 11.587 ppbv

RT: 5.04 min Scan# 702

Delta R.T. 0.01 min

Lab File: VL034451.D

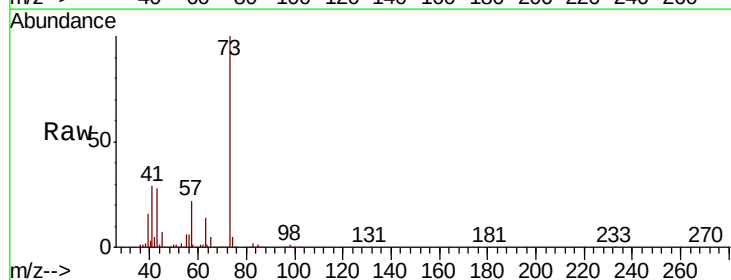
Acq: 3 Dec 2019 7:06

Tgt Ion: 73 Resp: 1571134

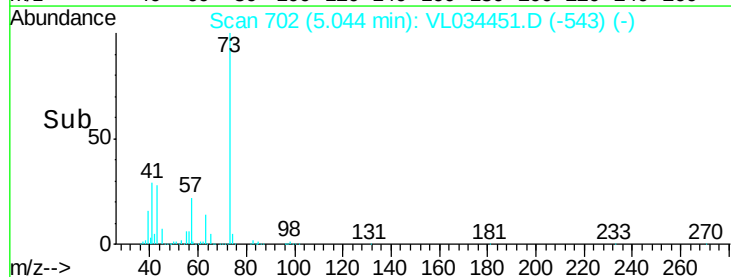
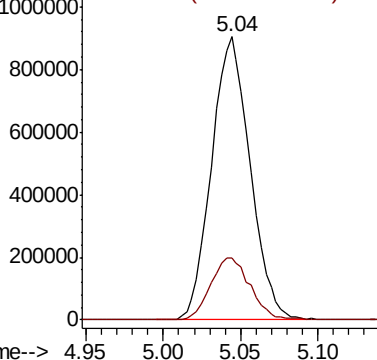
Ion Ratio Lower Upper

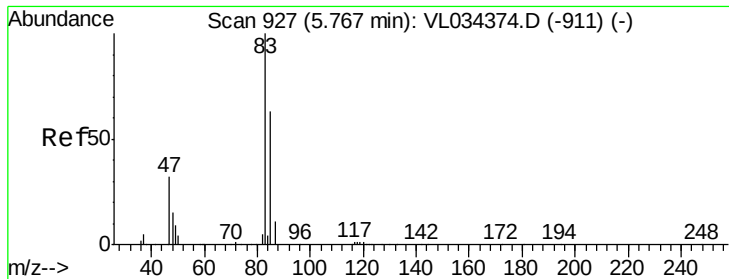
73 100

57 22.6 18.4 27.6



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





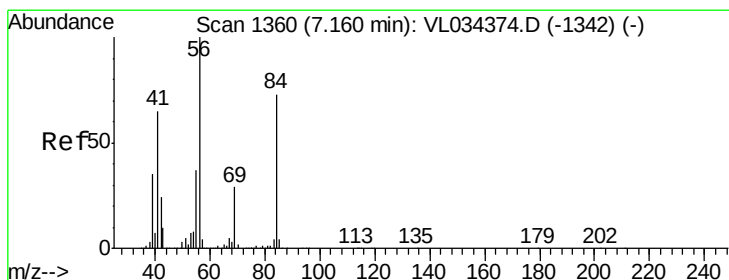
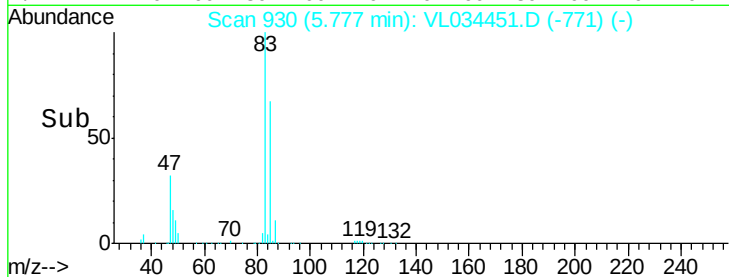
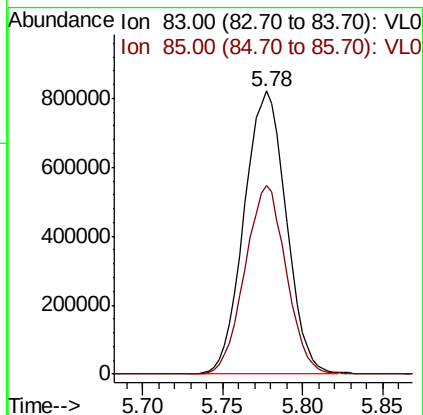
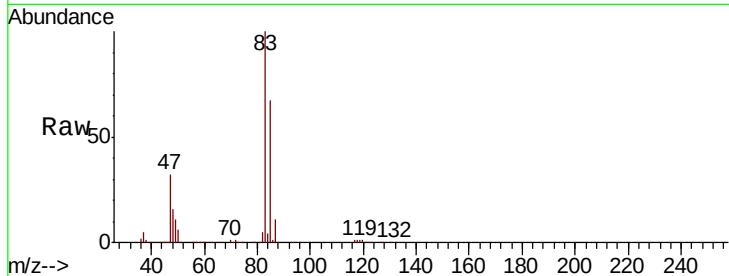
#29
Chloroform
Concen: 11.145 ppbv
RT: 5.78 min Scan# 930
Delta R.T. 0.01 min
Lab File: VL034451.D
Acq: 3 Dec 2019 7:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 1475856
Ion Ratio Lower Upper
83 100
85 66.6 50.4 75.6

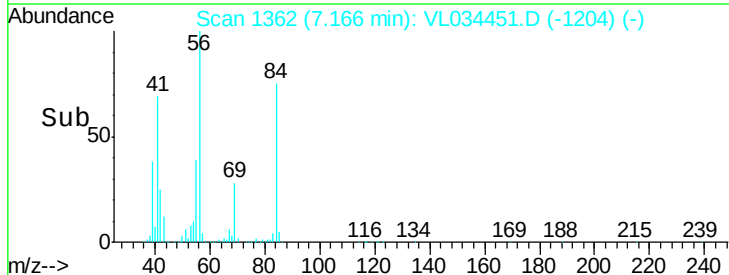
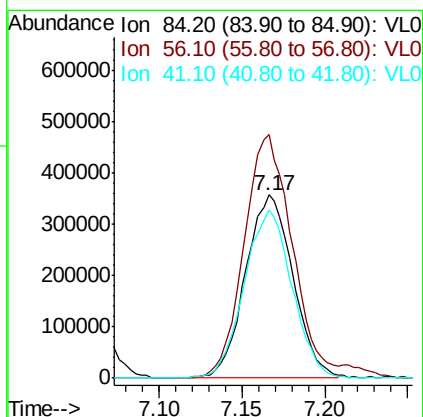
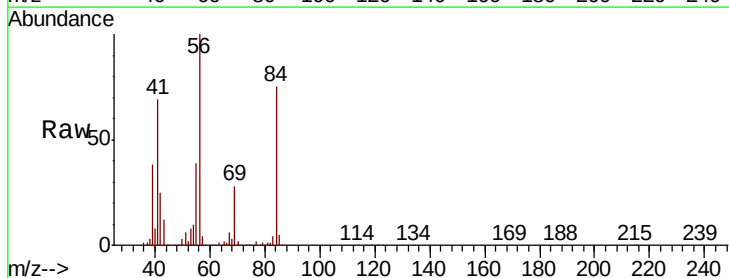
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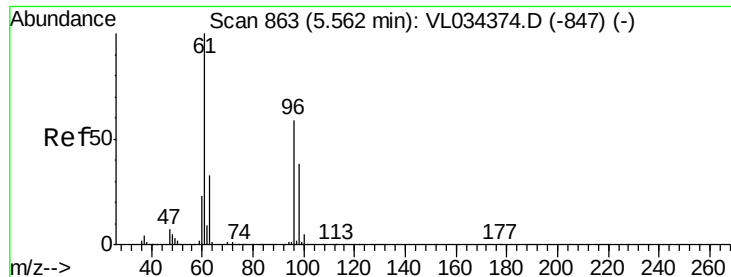
apatel
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#30
Cyclohexane
Concen: 11.456 ppbv
RT: 7.17 min Scan# 1362
Delta R.T. 0.01 min
Lab File: VL034451.D
Acq: 3 Dec 2019 7:06

Tgt Ion: 84 Resp: 708219
Ion Ratio Lower Upper
84 100
56 139.6 112.6 169.0
41 92.8 73.4 110.2





#31

cis-1,2-Dichloroethene

Concen: 11.454 ppbv

RT: 5.57 min Scan# 865

Delta R.T. 0.01 min

Lab File: VL034451.D

Acq: 3 Dec 2019 7:06

Instrument :

MSVOA_L

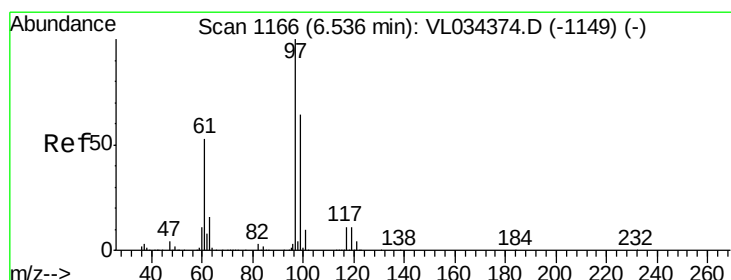
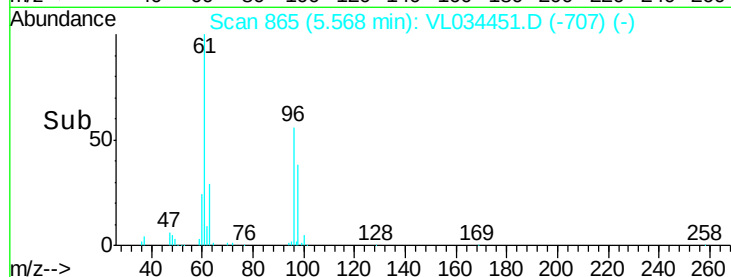
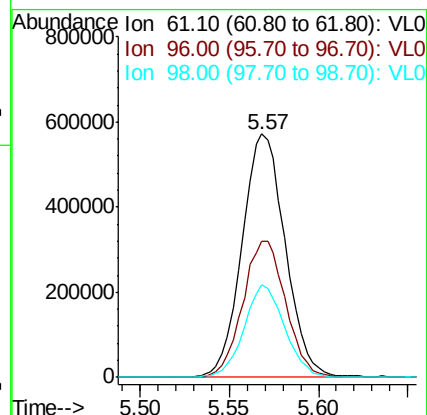
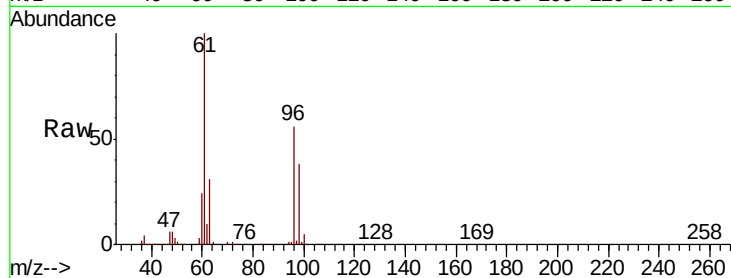
ClientSampleId :

VSTDCCC010EC

Tot Ion:	61	Resp:	967874
Ion	Ratio	Lower	Upper
61	100		
96	56.0	47.4	71.2
98	37.8	30.6	45.8

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#32

1,1,1-Trichloroethane

Concen: 12.304 ppbv

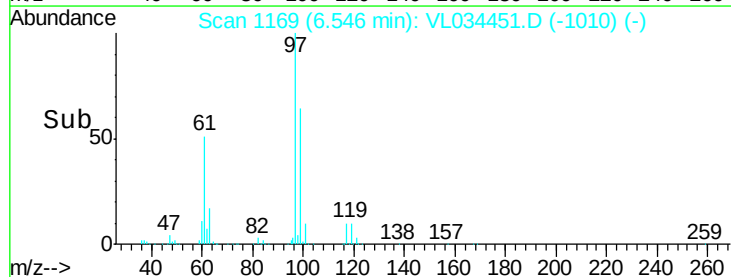
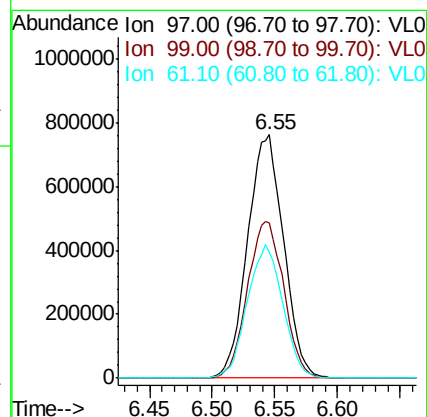
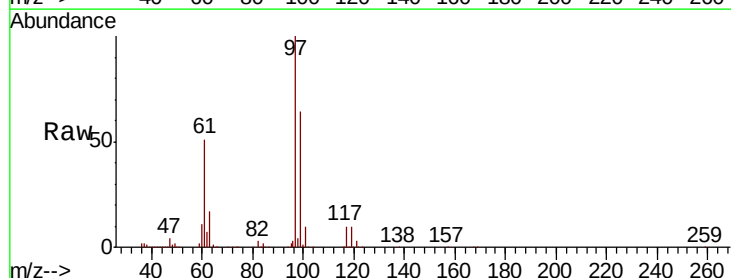
RT: 6.55 min Scan# 1169

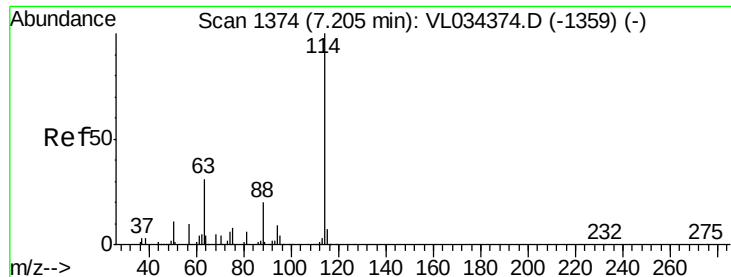
Delta R.T. 0.01 min

Lab File: VL034451.D

Acq: 3 Dec 2019 7:06

Tgt Ion:	97	Resp:	1527664
Ion	Ratio	Lower	Upper
97	100		
99	64.9	52.3	78.5
61	54.0	43.7	65.5





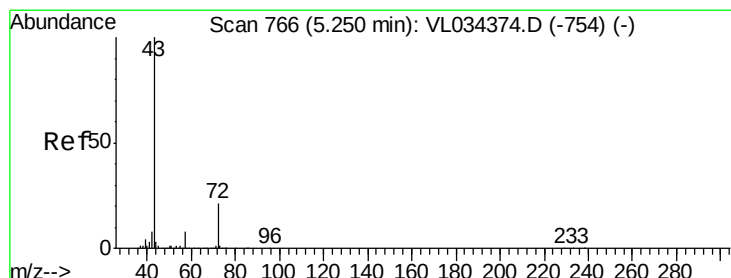
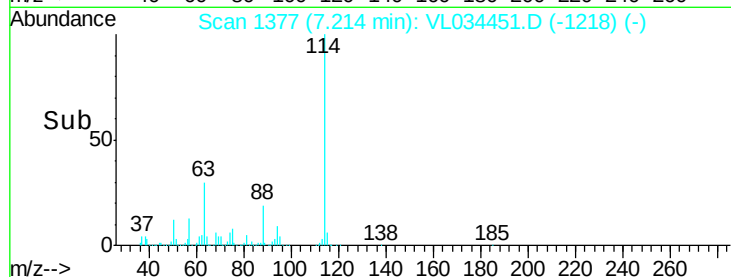
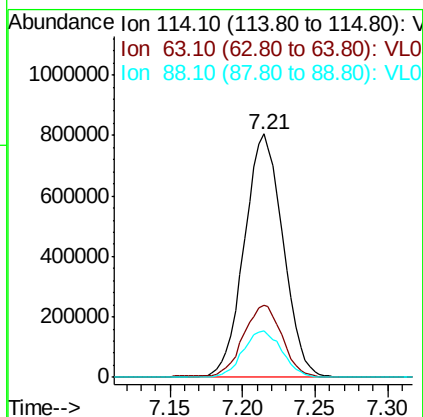
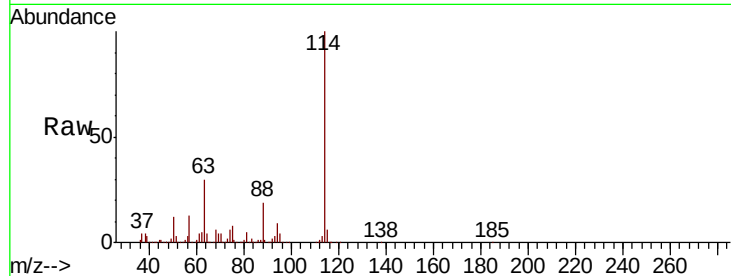
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1377
 Delta R.T. 0.01 min
 Lab File: VL034451.D
 Acq: 3 Dec 2019 7:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	30.4	24.2	36.4
88	19.2	15.9	23.9

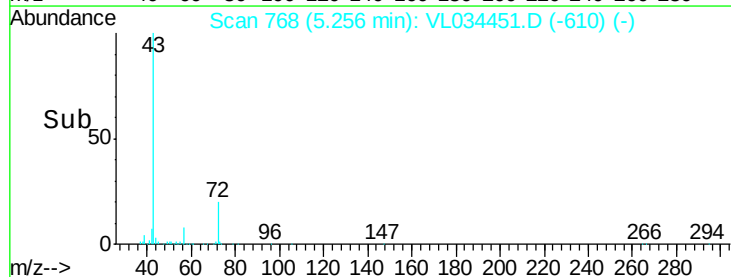
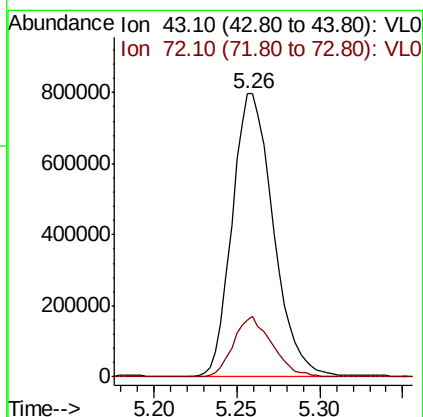
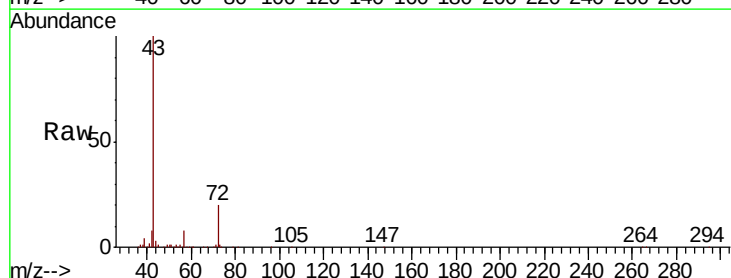
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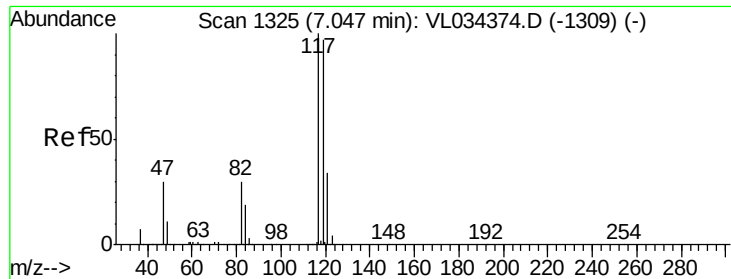
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#34
 2-Butanone
 Concen: 11.132 ppbv
 RT: 5.26 min Scan# 768
 Delta R.T. 0.01 min
 Lab File: VL034451.D
 Acq: 3 Dec 2019 7:06

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.3	17.0	25.6





#35

Carbon Tetrachloride

Concen: 12.207 ppbv

RT: 7.05 min Scan# 1327

Delta R.T. 0.01 min

Lab File: VL034451.D

Acq: 3 Dec 2019 7:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 1573458

Ion Ratio Lower Upper

117 100

119 94.2 77.3 115.9

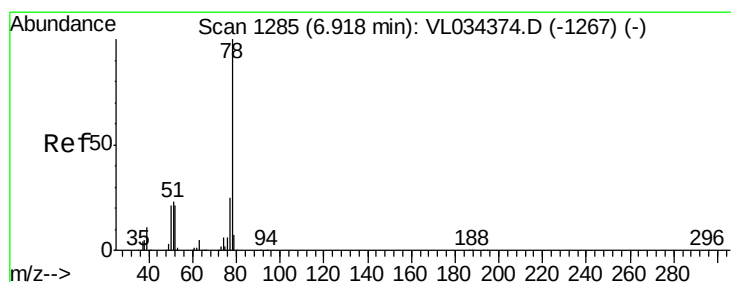
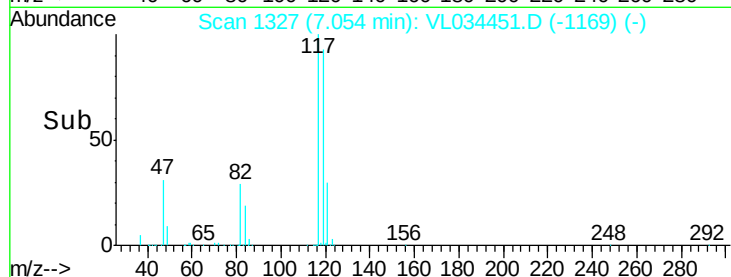
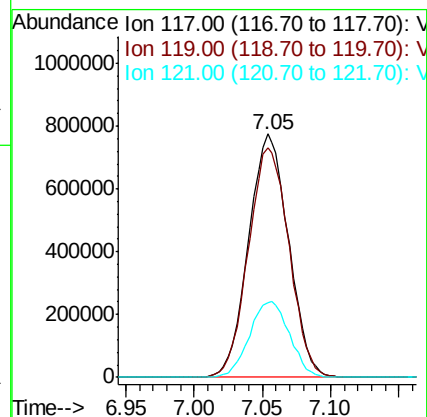
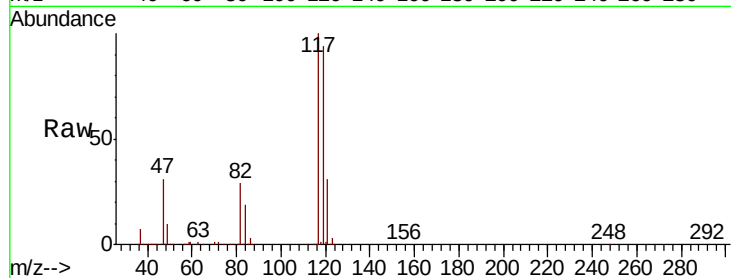
121 30.6 27.4 41.2

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#36

Benzene

Concen: 11.230 ppbv

RT: 6.93 min Scan# 1288

Delta R.T. 0.01 min

Lab File: VL034451.D

Acq: 3 Dec 2019 7:06

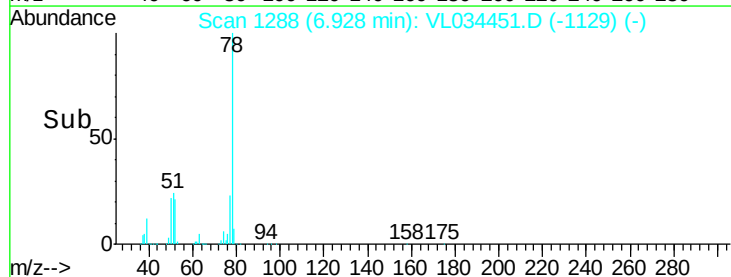
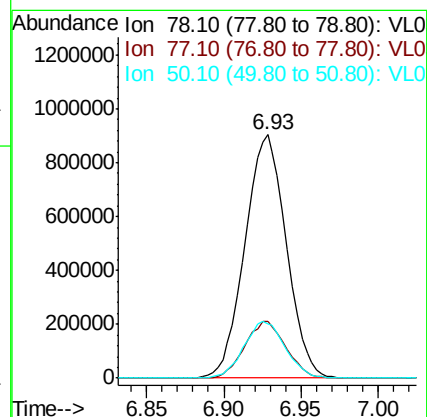
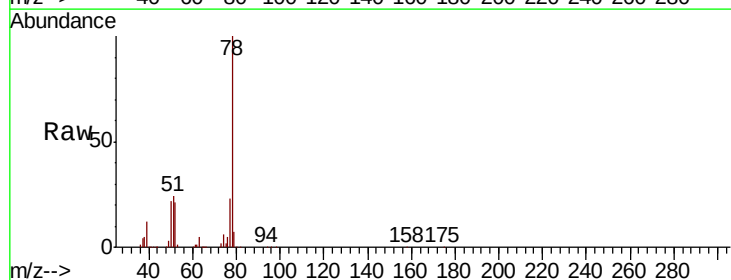
Tgt Ion: 78 Resp: 1682995

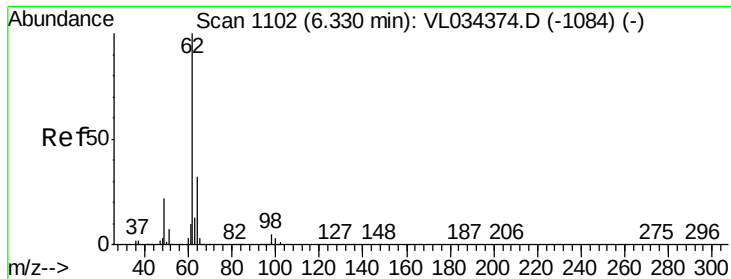
Ion Ratio Lower Upper

78 100

77 23.0 20.2 30.4

50 22.5 17.1 25.7





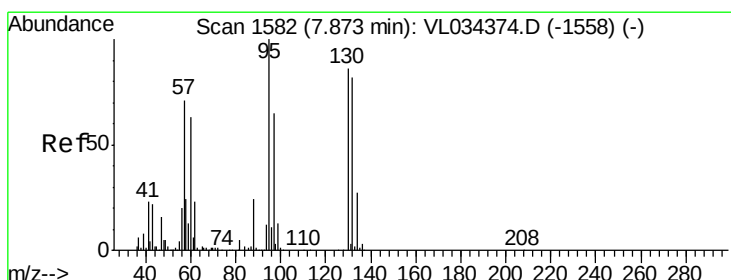
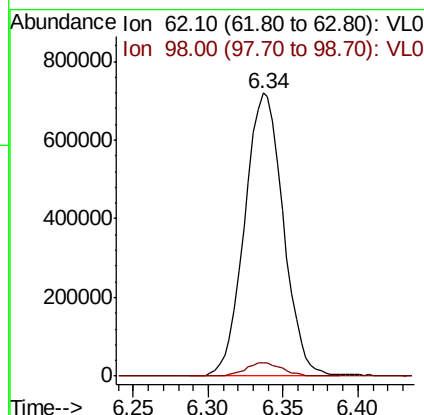
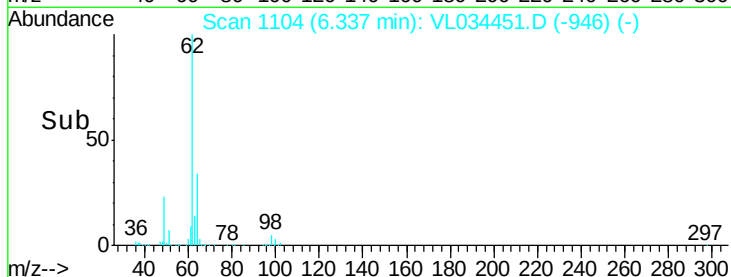
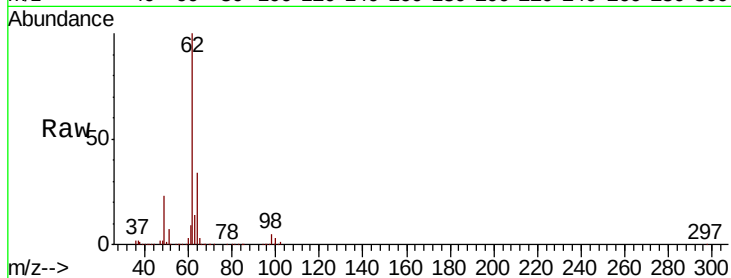
#37
1,2-Dichloroethane
Concen: 11.628 ppbv
RT: 6.34 min Scan# 1104
Delta R.T. 0.01 min
Lab File: VL034451.D
Acq: 3 Dec 2019 7:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 62 Resp: 1294574
Ion Ratio Lower Upper
62 100
98 4.7 3.8 5.8

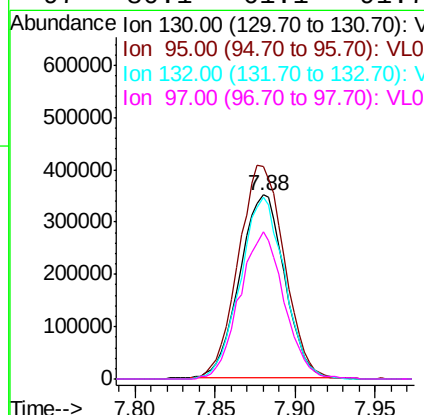
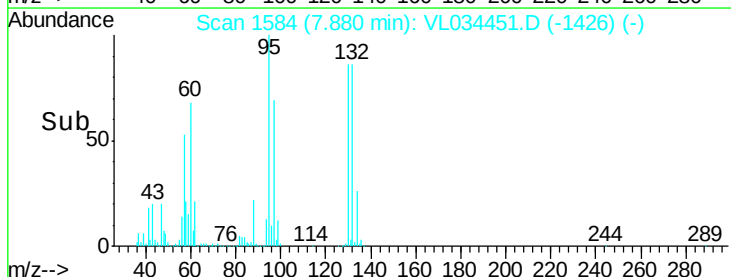
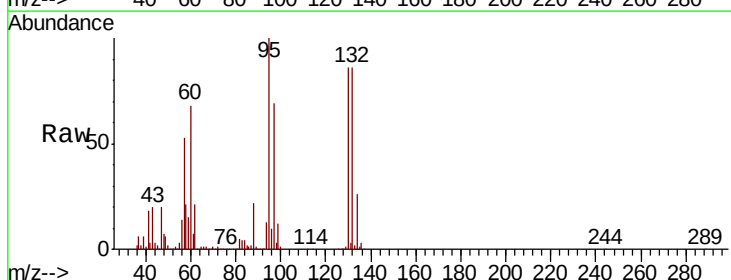
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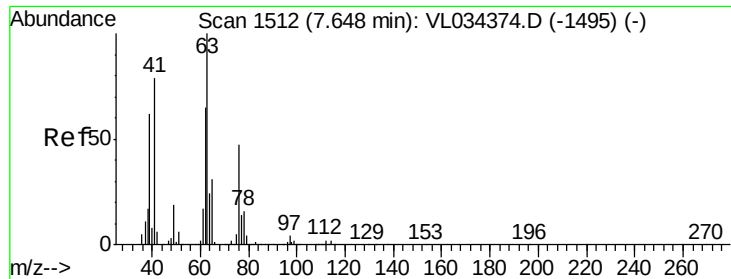
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#38
Trichloroethene
Concen: 10.880 ppbv
RT: 7.88 min Scan# 1584
Delta R.T. 0.01 min
Lab File: VL034451.D
Acq: 3 Dec 2019 7:06

Tgt Ion: 130 Resp: 669116
Ion Ratio Lower Upper
130 100
95 115.9 93.4 140.0
132 99.2 76.4 114.6
97 80.1 61.1 91.7





#39

1,2-Dichloropropane

Concen: 12.346 ppbv

RT: 7.65 min Scan# 1514

Delta R.T. 0.01 min

Lab File: VL034451.D

Acq: 3 Dec 2019 7:06

Instrument :

MSVOA_L

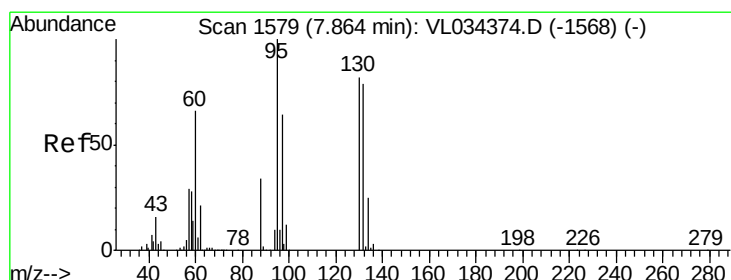
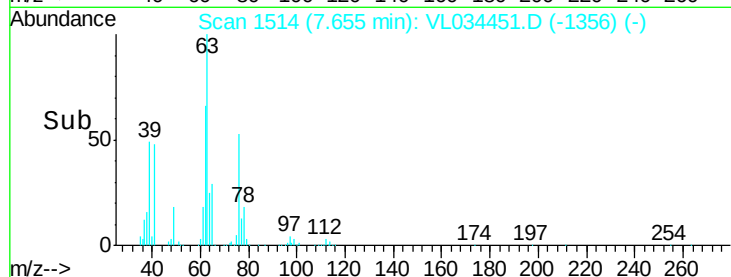
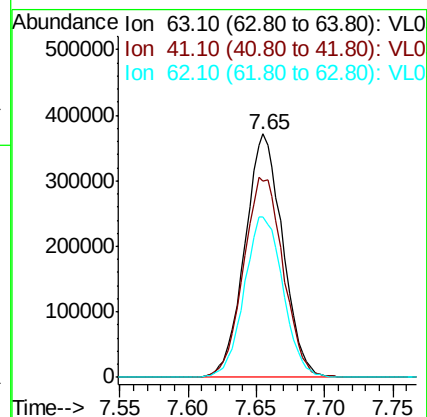
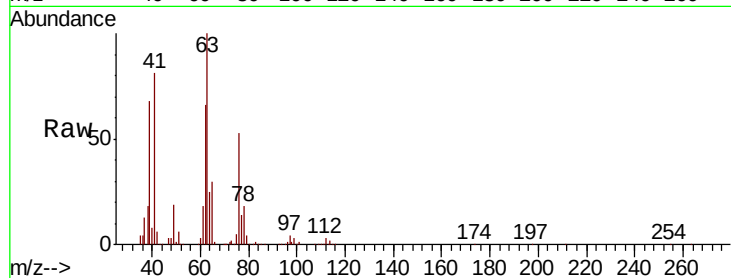
ClientSampleId :

VSTDCCC010EC

Tot Ion:	63	Resp:	712829
Ion Ratio	Lower	Upper	
63	100		
41	80.5	63.1	94.7
62	65.7	52.3	78.5

Manual Integrations
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#40

1,4-Dioxane

Concen: 9.624 ppbv

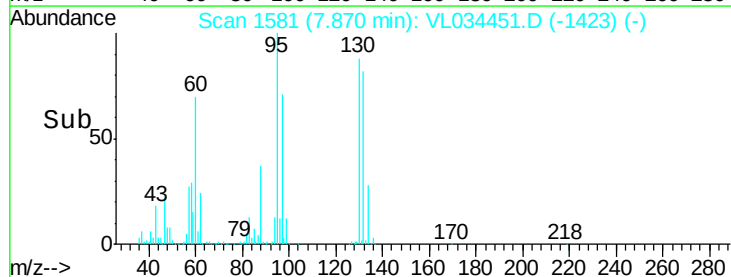
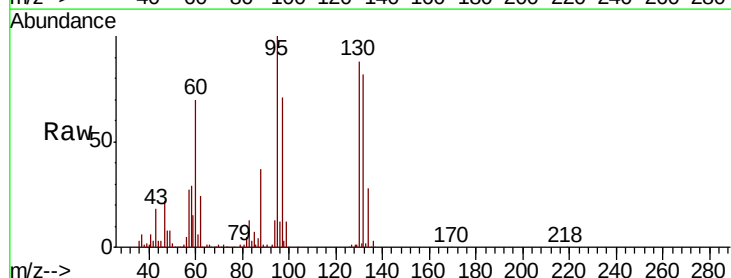
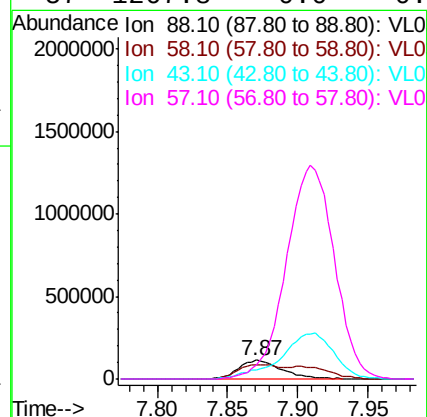
RT: 7.87 min Scan# 1581

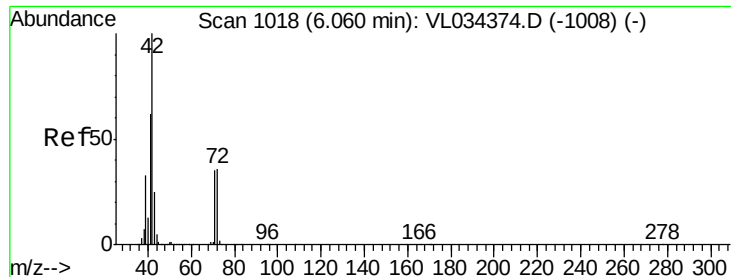
Delta R.T. 0.01 min

Lab File: VL034451.D

Acq: 3 Dec 2019 7:06

Tgt Ion:	88	Resp:	242718
Ion Ratio	Lower	Upper	
88	100		
58	138.9	109.5	164.3
43	303.9	0.0	0.0#
57	1267.8	0.0	0.0#





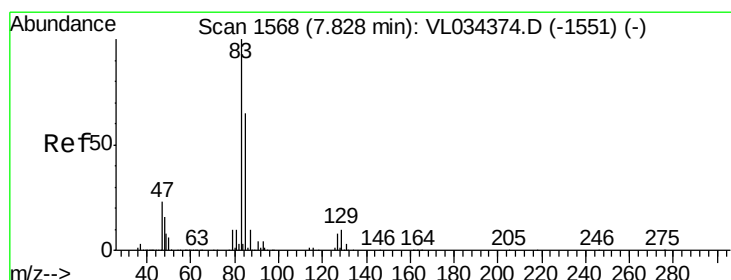
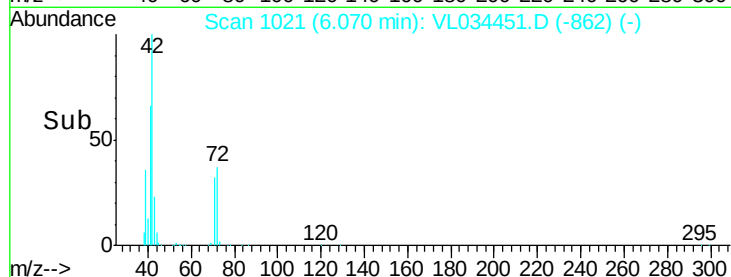
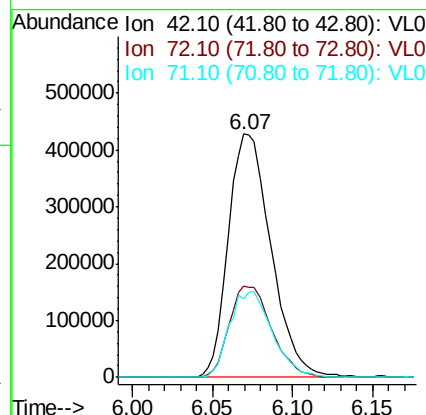
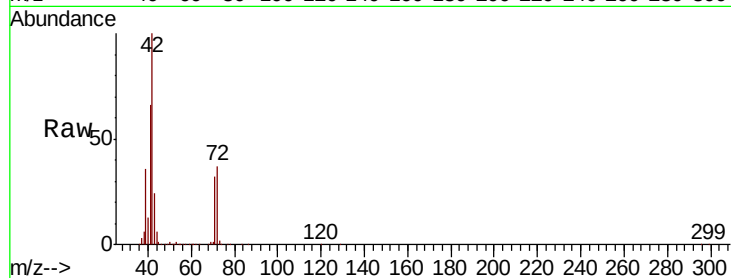
#41
Tetrahydrofuran
Concen: 11.184 ppbv
RT: 6.07 min Scan# 1021
Delta R.T. 0.01 min
Lab File: VL034451.D
Acq: 3 Dec 2019 7:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.7	30.2	45.4
71	35.9	29.4	44.2

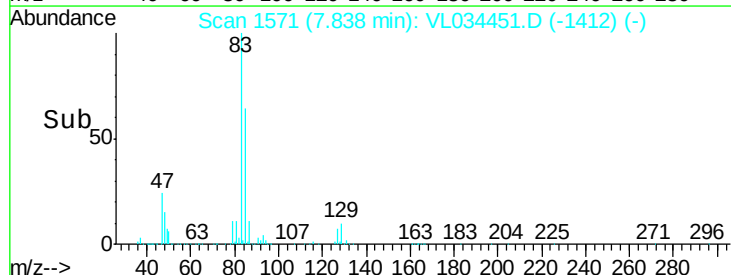
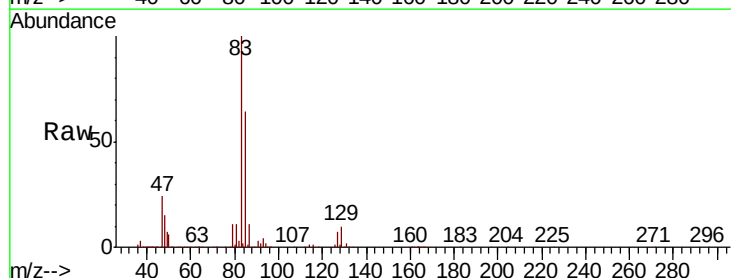
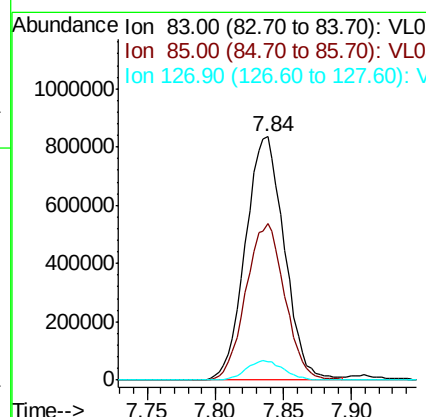
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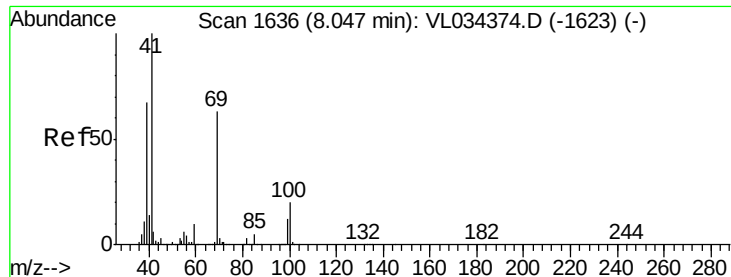
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#42
Bromodichloromethane
Concen: 11.881 ppbv
RT: 7.84 min Scan# 1571
Delta R.T. 0.01 min
Lab File: VL034451.D
Acq: 3 Dec 2019 7:06

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.3	52.3	78.5
127	7.4	6.1	9.1





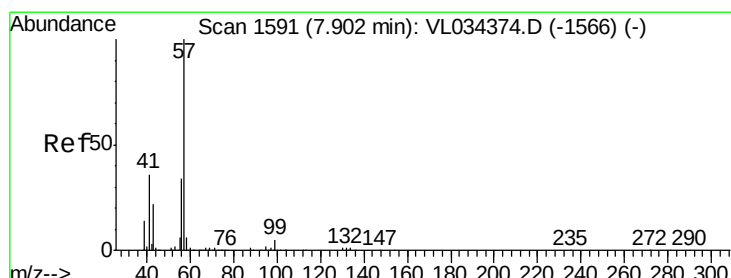
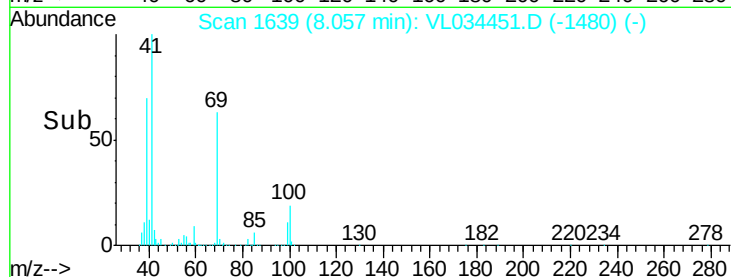
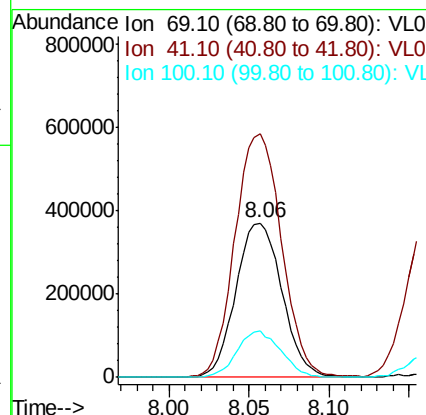
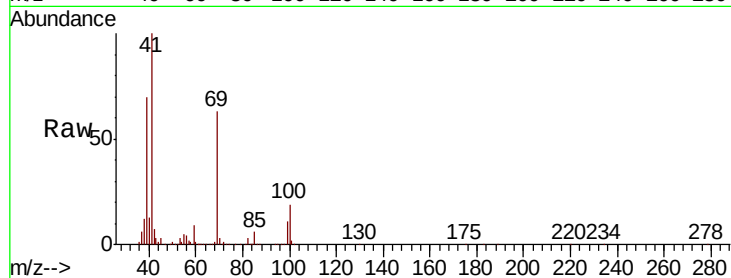
#43
Methyl Methacrylate
Concen: 11.618 ppbv
RT: 8.06 min Scan# 1639
Delta R.T. 0.01 min
Lab File: VL034451.D
Acq: 3 Dec 2019 7:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	161.2	127.4	191.2	
100	28.9	24.2	36.4	

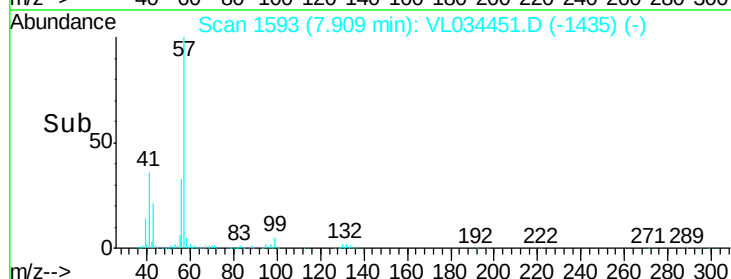
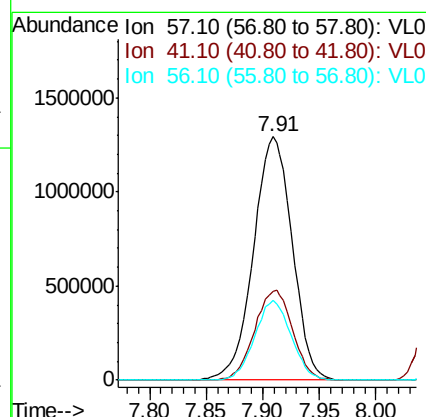
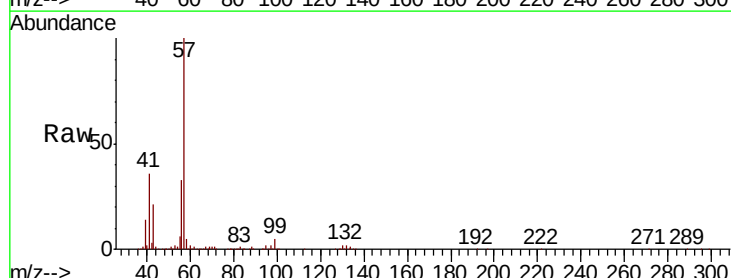
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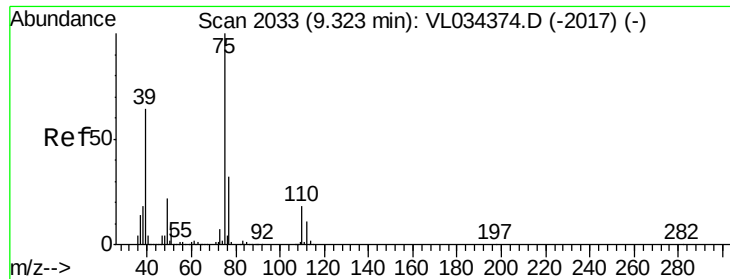
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#44
2,2,4-Trimethylpentane
Concen: 11.214 ppbv
RT: 7.91 min Scan# 1593
Delta R.T. 0.01 min
Lab File: VL034451.D
Acq: 3 Dec 2019 7:06

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	36.3	28.6	42.8	
56	31.0	25.3	37.9	





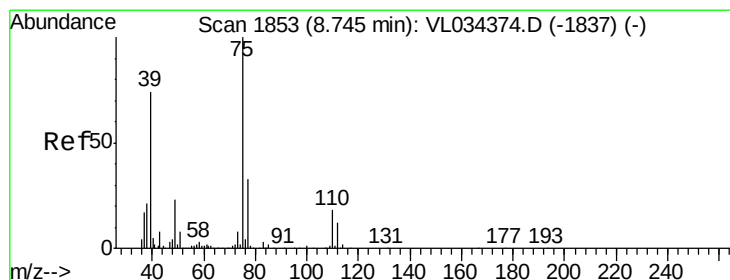
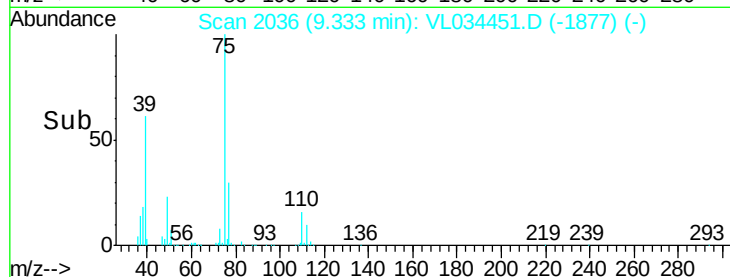
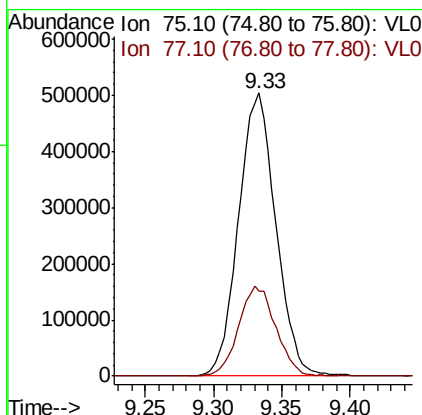
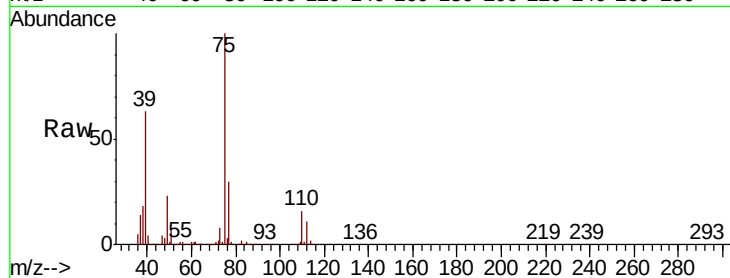
#45
t-1,3-Dichloropropene
Concen: 12.018 ppbv
RT: 9.33 min Scan# 2036
Delta R.T. 0.01 min
Lab File: VL034451.D
Acq: 3 Dec 2019 7:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 75 Resp: 957979
Ion Ratio Lower Upper
75 100
77 30.2 25.4 38.2

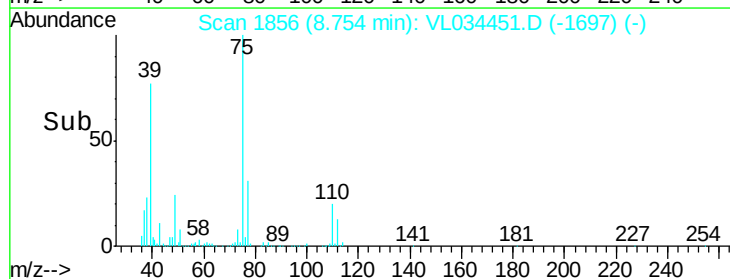
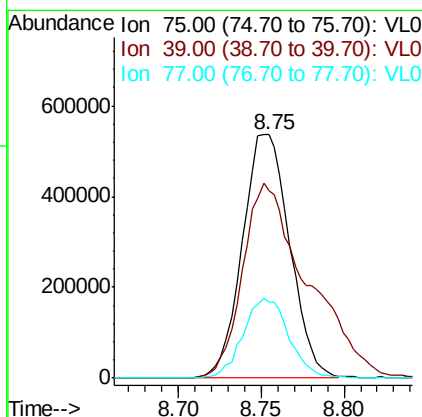
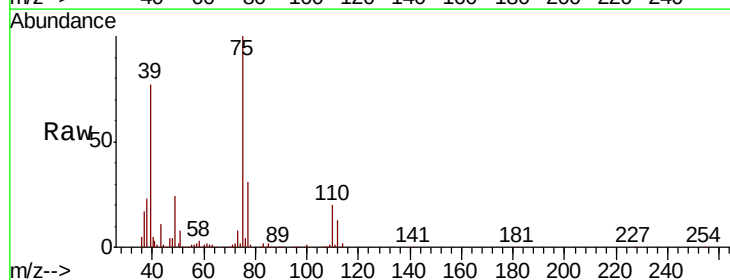
Manual Integrations
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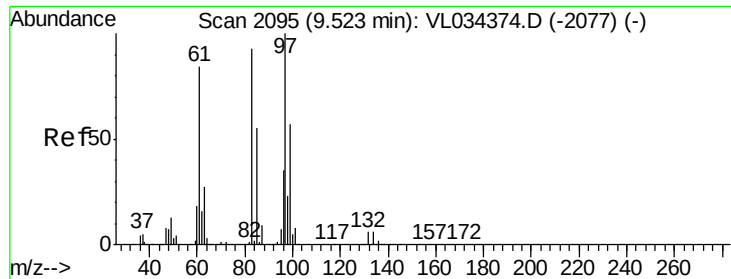
apatel
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#46
cis-1,3-Dichloropropene
Concen: 11.859 ppbv
RT: 8.75 min Scan# 1856
Delta R.T. 0.01 min
Lab File: VL034451.D
Acq: 3 Dec 2019 7:06

Tgt Ion: 75 Resp: 1061835
Ion Ratio Lower Upper
75 100
39 77.0 59.0 88.6
77 31.1 26.4 39.6





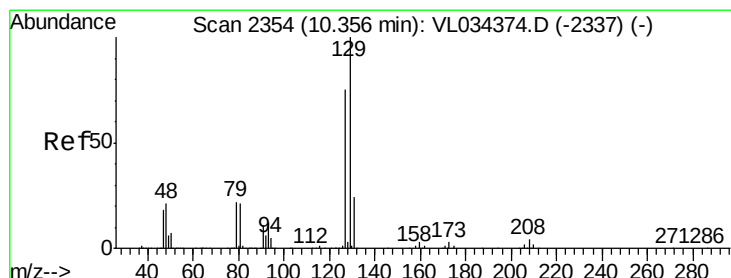
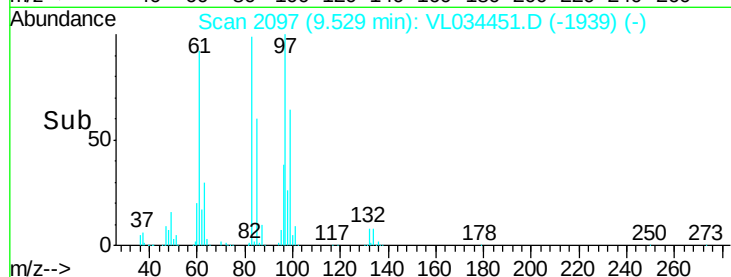
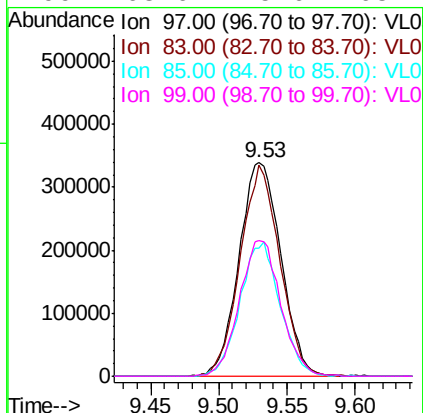
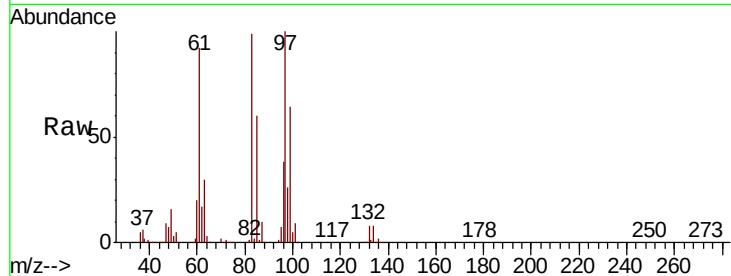
#47
 1,1,2-Trichloroethane
 Concen: 11.259 ppbv
 RT: 9.53 min Scan# 2097
 Delta R.T. 0.01 min
 Lab File: VL034451.D
 Acq: 3 Dec 2019 7:06

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	98.5	74.6	112.0	
85	60.2	43.8	65.8	
99	63.6	45.6	68.4	

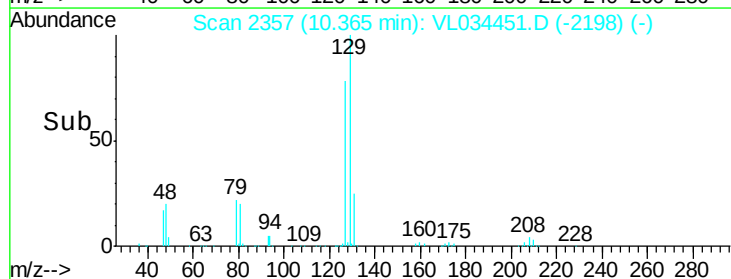
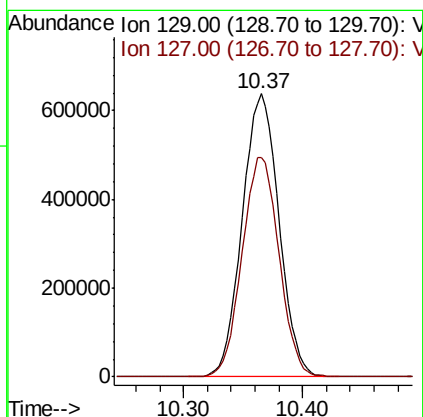
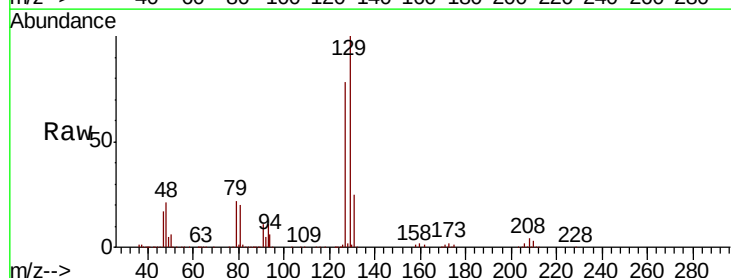
Manual Integrations
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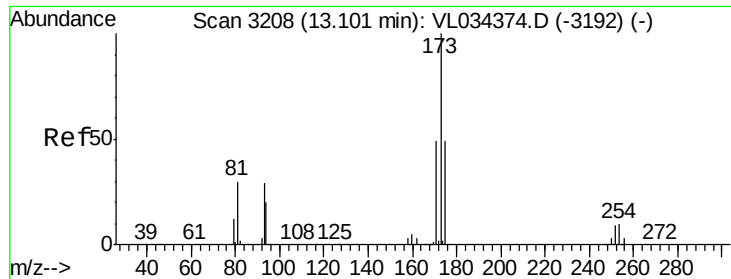
apatel
 12/4/2019 4:47:48 PM



#48
 Dibromochloromethane
 Concen: 12.370 ppbv
 RT: 10.37 min Scan# 2357
 Delta R.T. 0.01 min
 Lab File: VL034451.D
 Acq: 3 Dec 2019 7:06

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.1	39.1	117.5	





#49

Bromoform

Concen: 12.311 ppbv

RT: 13.11 min Scan# 3211

Delta R.T. 0.01 min

Lab File: VL034451.D

Acq: 3 Dec 2019 7:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:173 Resp: 1211909

Ion Ratio Lower Upper

173 100

175 49.4 39.3 58.9

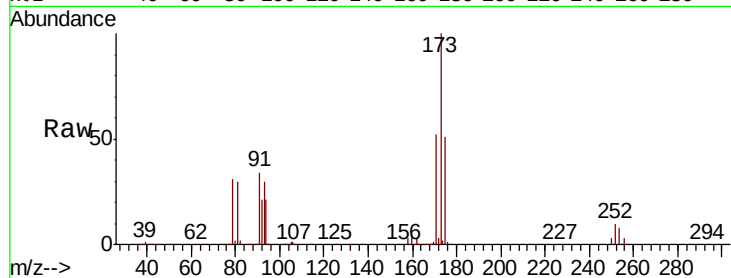
171 52.1 42.4 63.6

Manual Integrations

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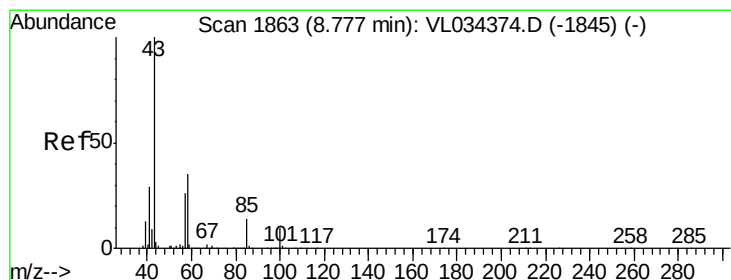
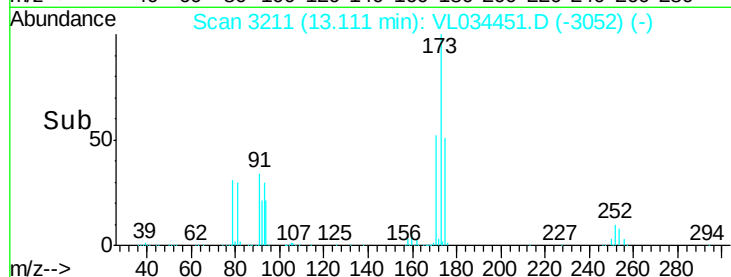
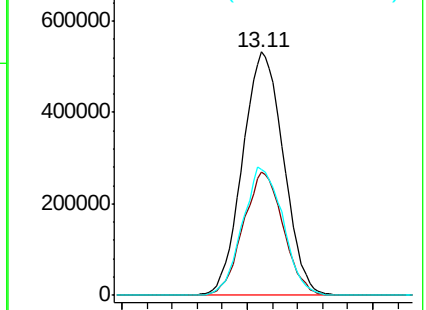
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 11.611 ppbv

RT: 8.78 min Scan# 1865

Delta R.T. 0.01 min

Lab File: VL034451.D

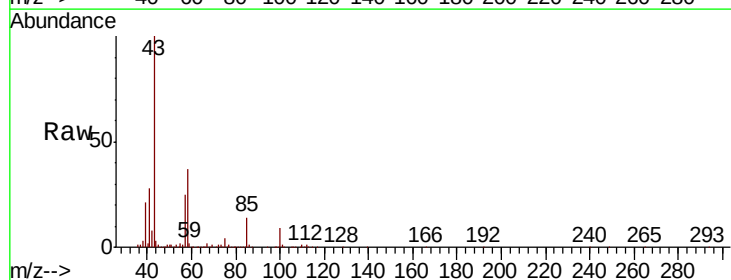
Acq: 3 Dec 2019 7:06

Tgt Ion: 43 Resp: 2073047

Ion Ratio Lower Upper

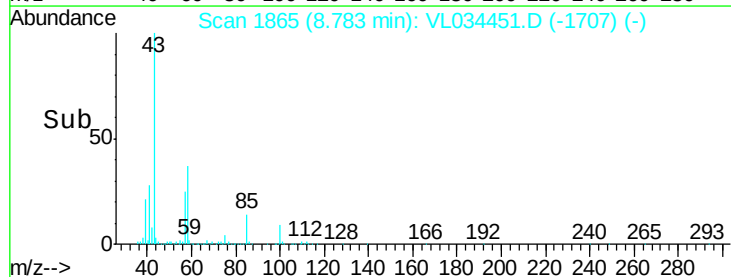
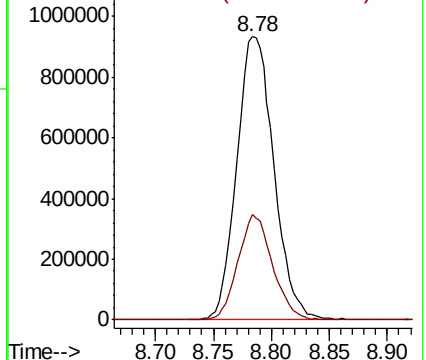
43 100

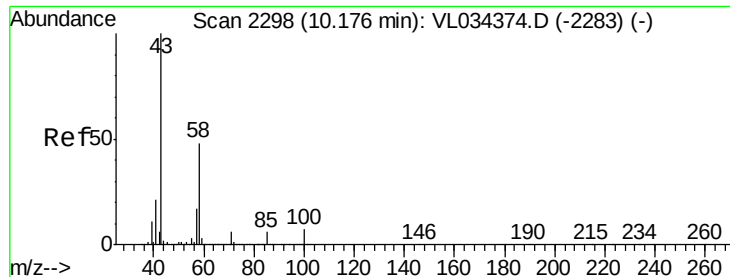
58 34.7 27.9 41.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 11.605 ppbv

RT: 10.18 min Scan# 2300

Delta R.T. 0.01 min

Lab File: VL034451.D

Acq: 3 Dec 2019 7:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1735487

Ion Ratio Lower Upper

43 100

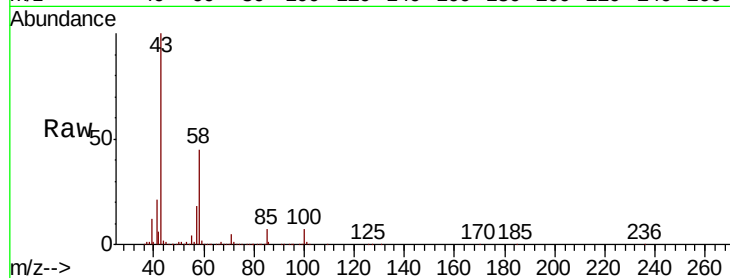
58 46.1 38.2 57.4

98 0.3 0.2 0.2#

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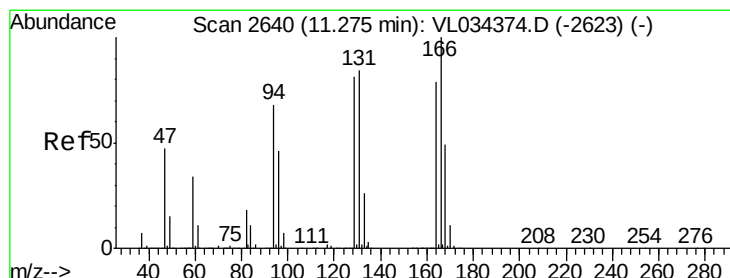
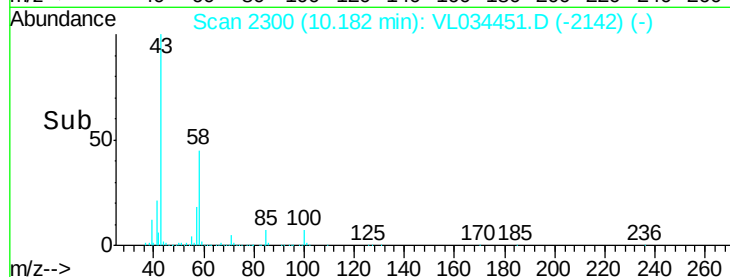
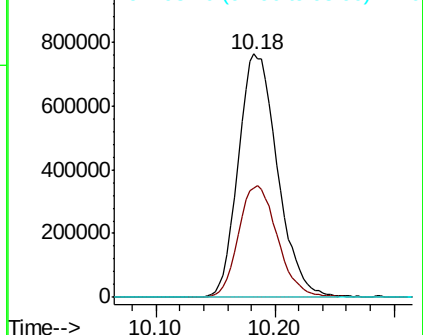


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 9.830 ppbv

RT: 11.28 min Scan# 2643

Delta R.T. 0.01 min

Lab File: VL034451.D

Acq: 3 Dec 2019 7:06

Tgt Ion: 164 Resp: 637423

Ion Ratio Lower Upper

164 100

166 129.9 101.7 152.5

129 110.3 82.6 123.8

131 108.6 85.2 127.8

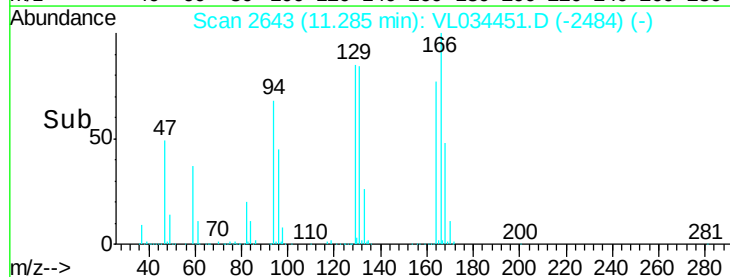
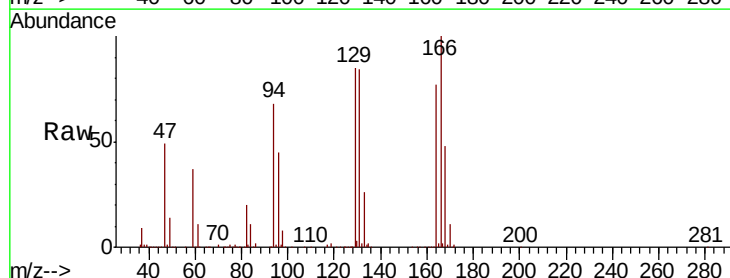
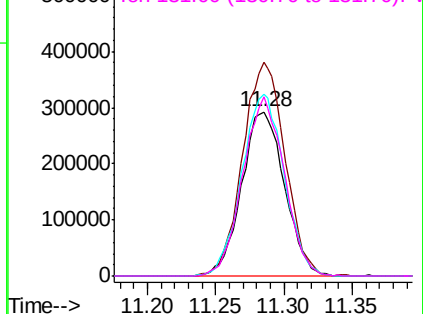
Abundance

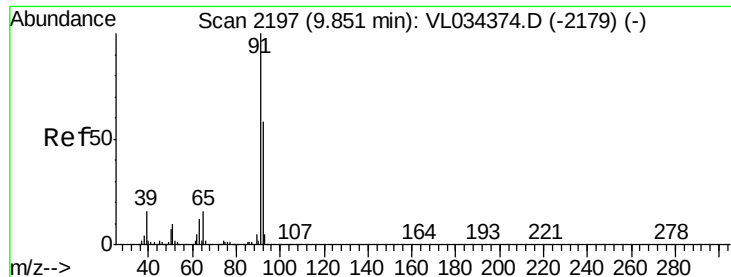
Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 11.448 ppbv

RT: 9.86 min Scan# 2200

Delta R.T. 0.01 min

Lab File: VL034451.D

Acq: 3 Dec 2019 7:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 1948723

Ion Ratio Lower Upper

91 100

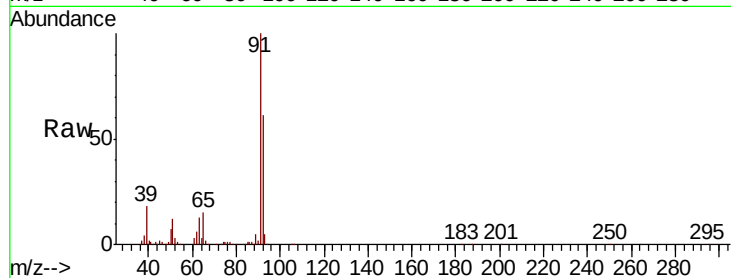
92 59.9 47.9 71.9

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.86

800000

600000

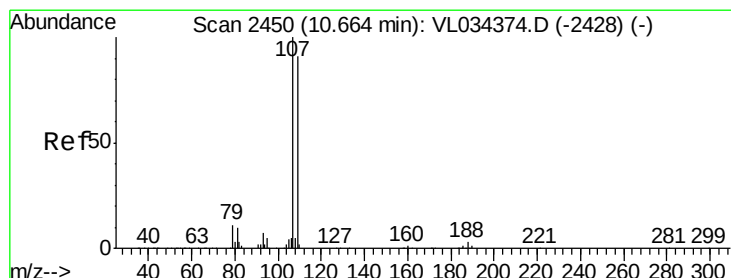
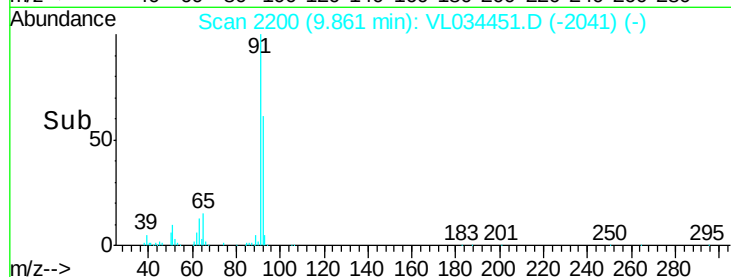
400000

200000

0

9.75 9.80 9.85 9.90 9.95

Time-->



#54

1,2-Dibromoethane

Concen: 11.689 ppbv

RT: 10.67 min Scan# 2452

Delta R.T. 0.01 min

Lab File: VL034451.D

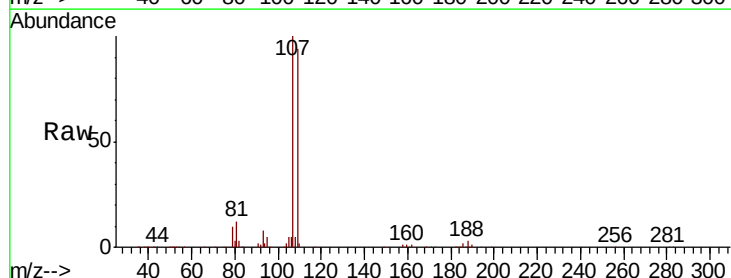
Acq: 3 Dec 2019 7:06

Tgt Ion: 107 Resp: 1150915

Ion Ratio Lower Upper

107 100

109 94.0 73.0 109.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

10.67

600000

500000

400000

300000

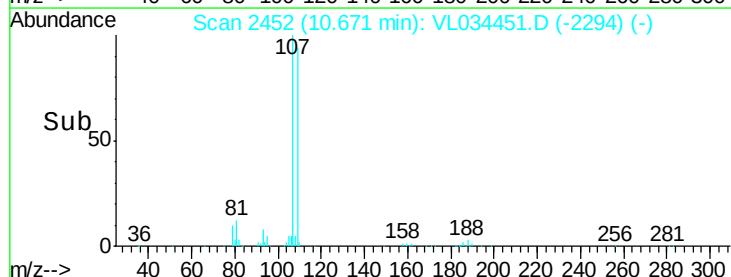
200000

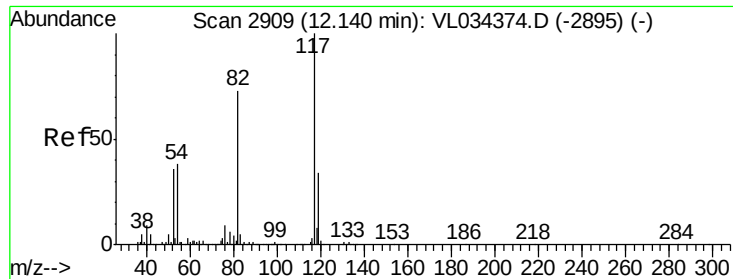
100000

0

10.60 10.70

Time-->





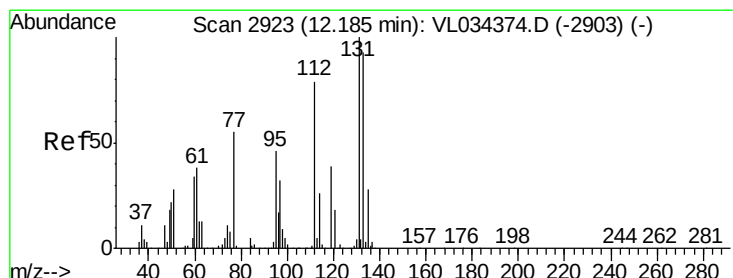
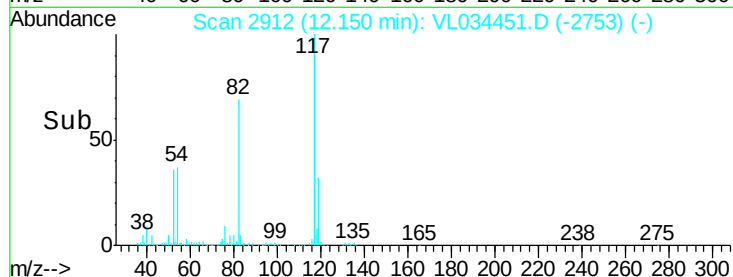
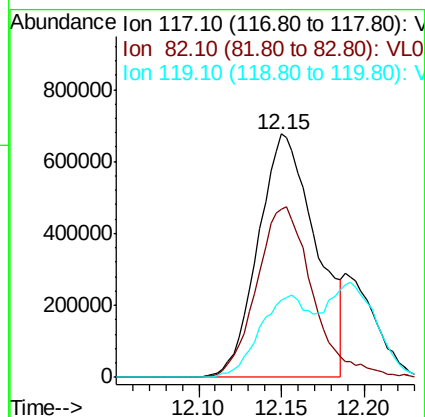
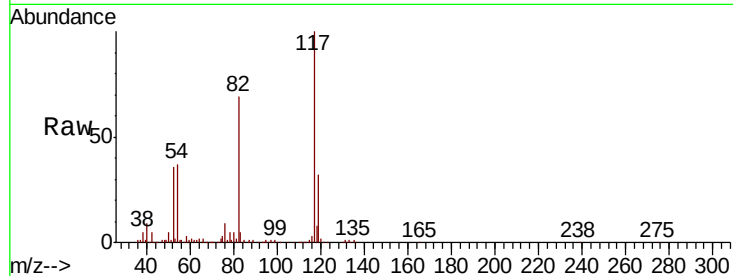
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.15 min Scan# 2912
Delta R.T. 0.01 min
Lab File: VL034451.D
Acq: 3 Dec 2019 7:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:117 Resp: 1644285
Ion Ratio Lower Upper
117 100
82 67.7 57.5 86.3
119 32.7 25.4 38.2

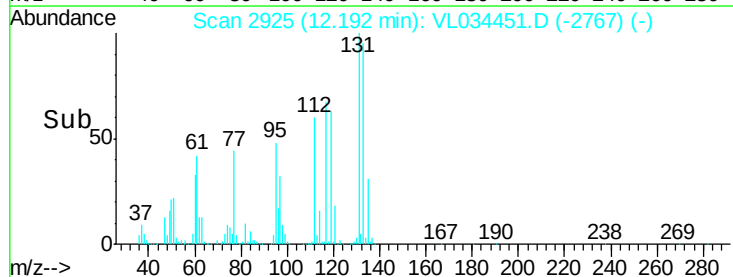
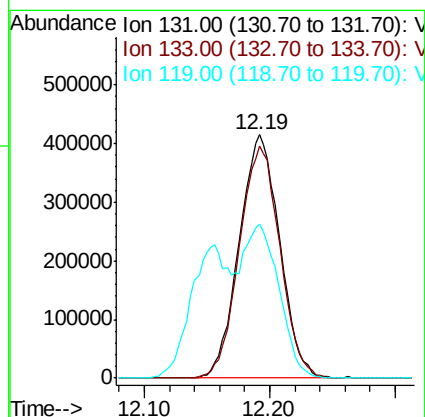
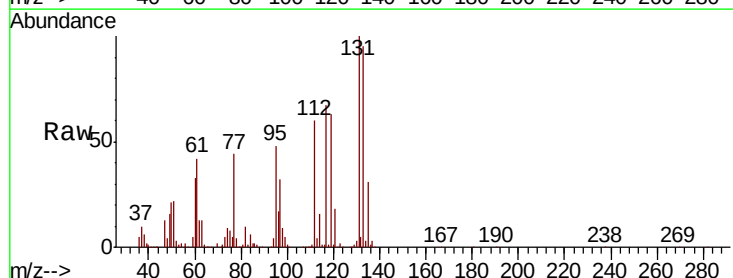
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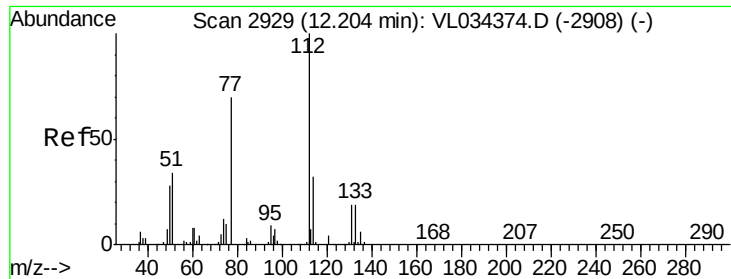
apatel
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#56
1,1,1,2-Tetrachloroethane
Concen: 11.553 ppbv
RT: 12.19 min Scan# 2925
Delta R.T. 0.01 min
Lab File: VL034451.D
Acq: 3 Dec 2019 7:06

Tgt Ion:131 Resp: 929187
Ion Ratio Lower Upper
131 100
133 95.8 76.2 114.2
119 53.9 44.6 67.0





#57

Chlorobenzene

Concen: 10.109 ppbv

RT: 12.21 min Scan# 2931

Delta R.T. 0.01 min

Lab File: VL034451.D

Acq: 3 Dec 2019 7:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:112 Resp: 1502594

Ion Ratio Lower Upper

112 100

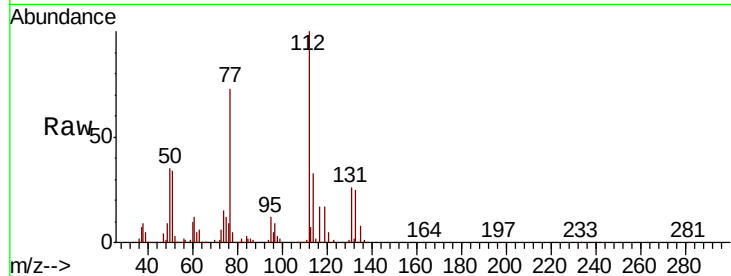
77 73.1 57.1 85.7

114 33.2 28.5 34.9

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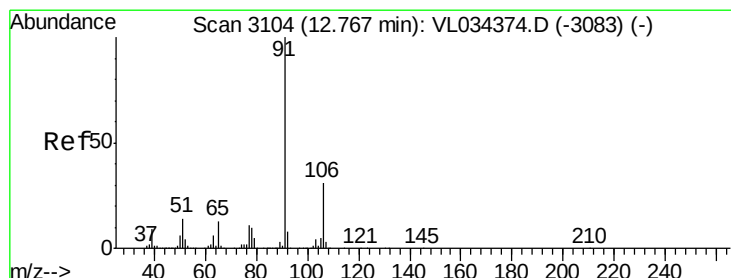
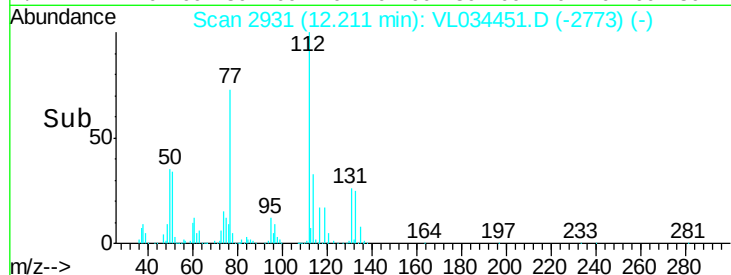
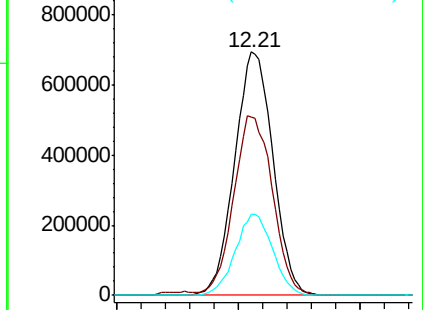
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.693 ppbv

RT: 12.78 min Scan# 3107

Delta R.T. 0.01 min

Lab File: VL034451.D

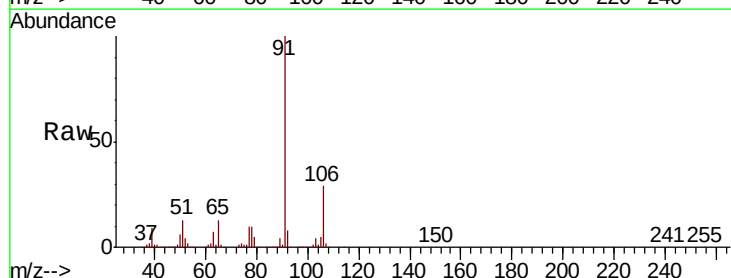
Acq: 3 Dec 2019 7:06

Tgt Ion: 91 Resp: 2728526

Ion Ratio Lower Upper

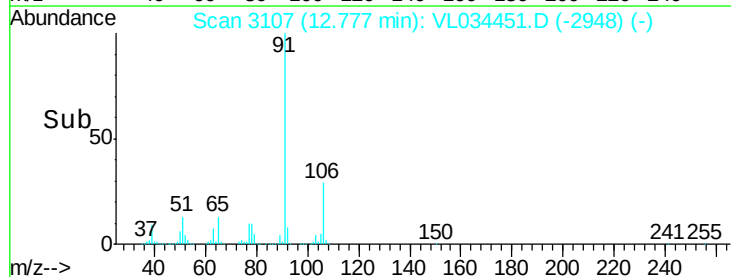
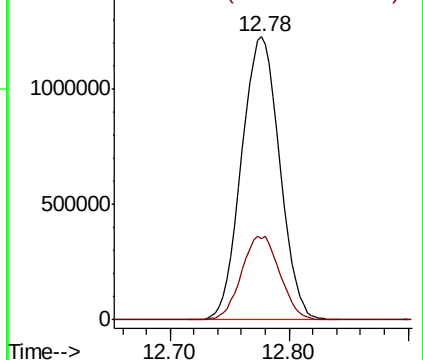
91 100

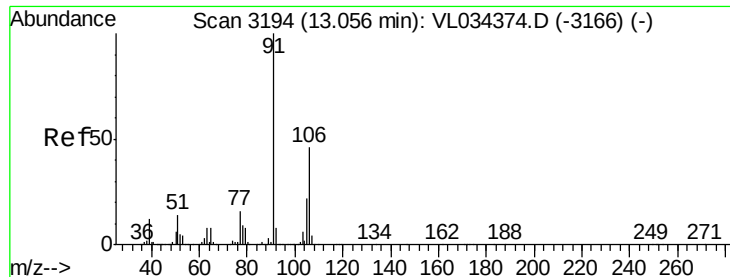
106 28.8 24.8 37.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





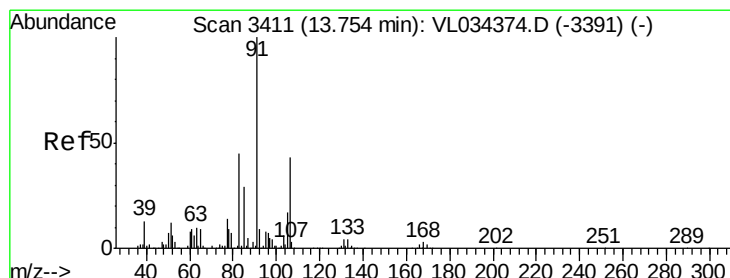
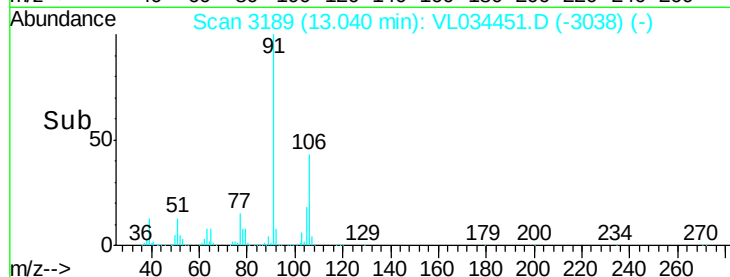
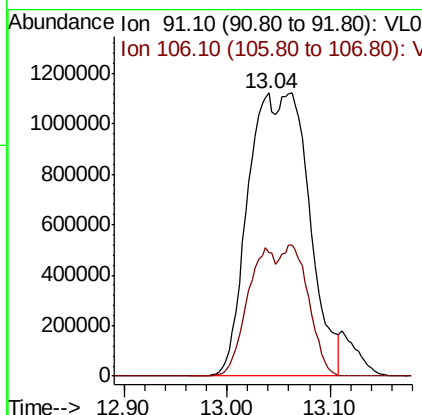
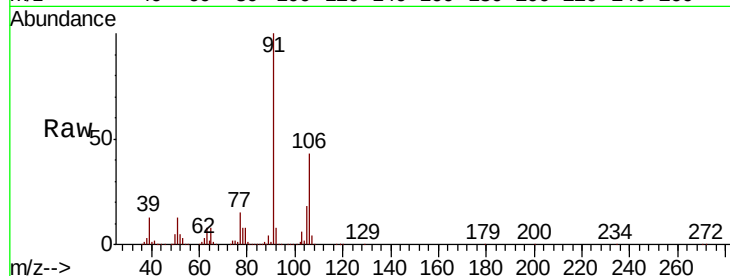
#59
m/p-Xylene
Concen: 20.857 ppbv m
RT: 13.04 min Scan# 3189
Delta R.T. -0.02 min
Lab File: VL034451.D
Acq: 3 Dec 2019 7:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 4600488
Ion Ratio Lower Upper
91 100
106 43.3 34.6 51.8

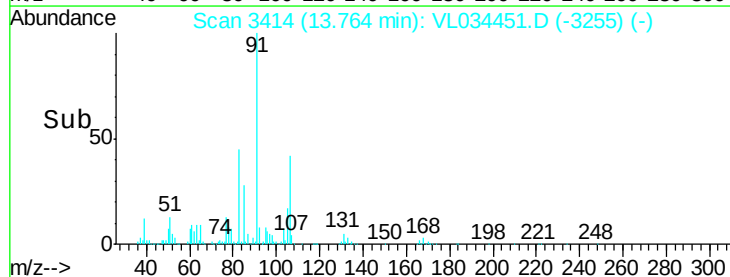
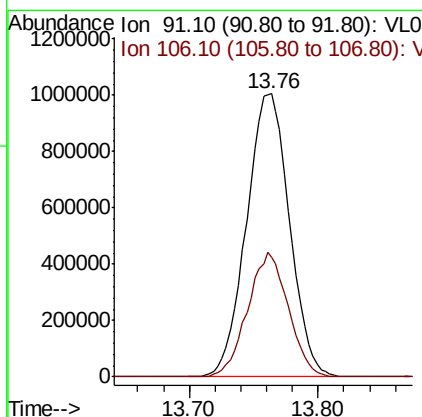
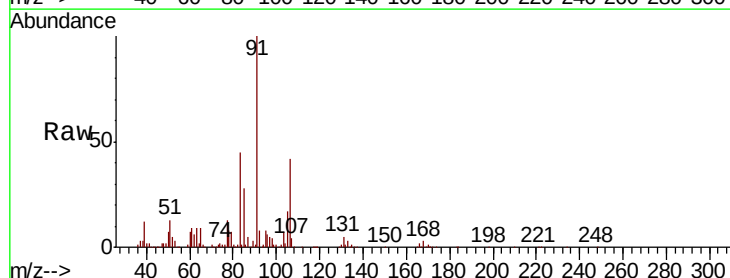
Manual Integrations
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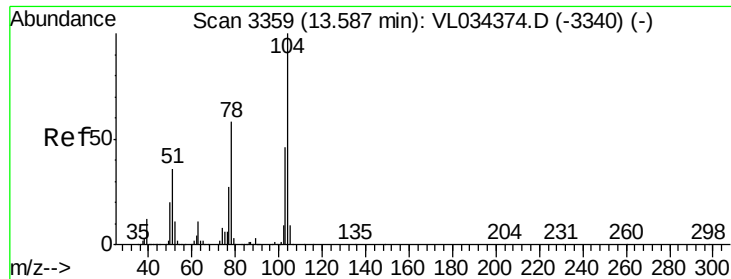
apatel
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#60
o-Xylene
Concen: 10.697 ppbv
RT: 13.76 min Scan# 3414
Delta R.T. 0.01 min
Lab File: VL034451.D
Acq: 3 Dec 2019 7:06

Tgt Ion: 91 Resp: 2332849
Ion Ratio Lower Upper
91 100
106 41.5 21.3 64.0





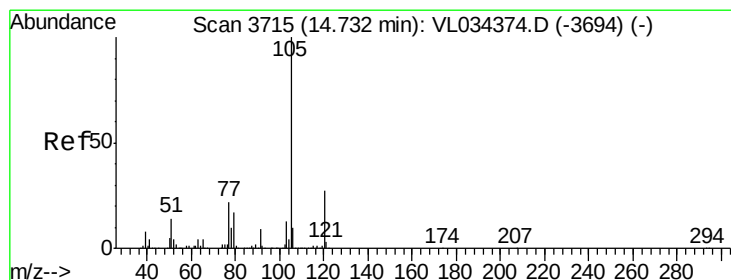
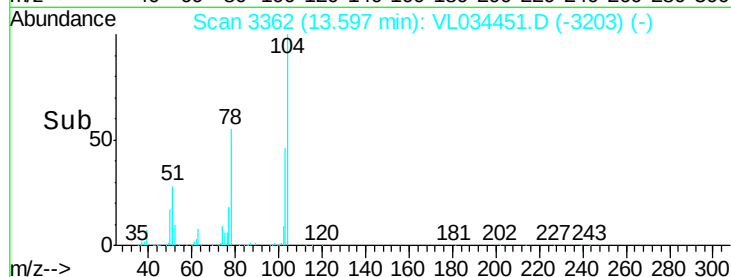
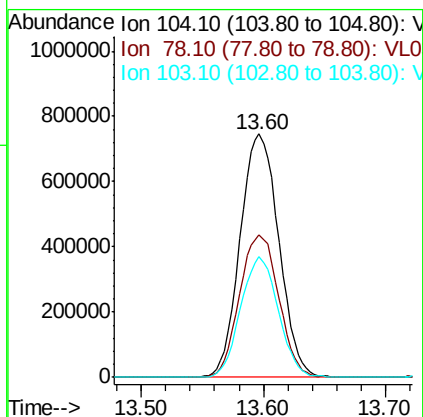
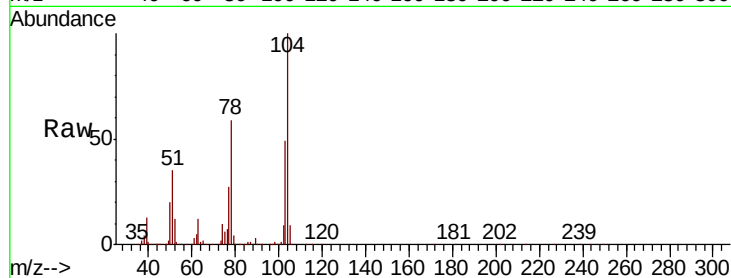
#61
Stvrene
Concen: 10.381 ppbv
RT: 13.60 min Scan# 3362
Delta R.T. 0.01 min
Lab File: VL034451.D
Acq: 3 Dec 2019 7:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
104	100		
78	59.6	47.6	71.4
103	48.3	38.6	57.8

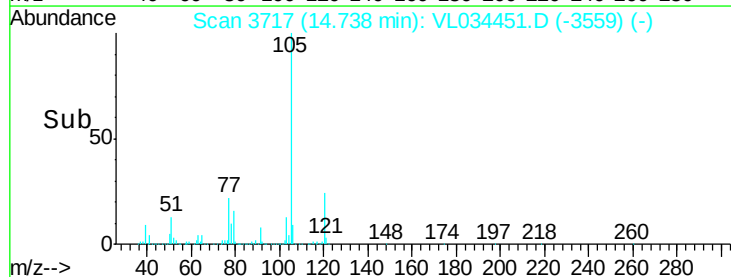
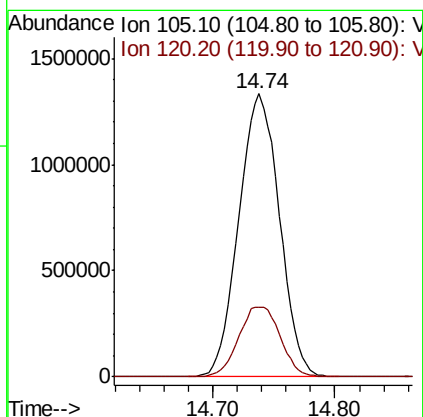
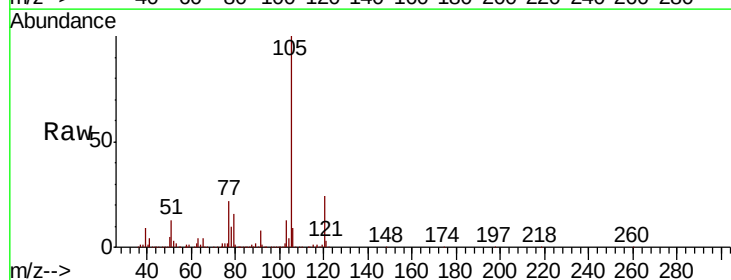
Manual Integrations
APPROVED

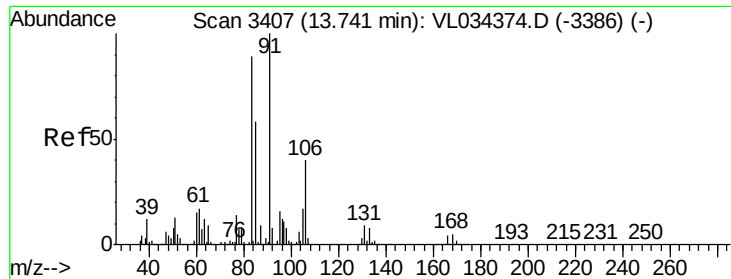
apatel
12/4/2019 4:47:48 PM



#62
Isopropylbenzene
Concen: 10.633 ppbv
RT: 14.74 min Scan# 3717
Delta R.T. 0.01 min
Lab File: VL034451.D
Acq: 3 Dec 2019 7:06

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.3	20.2	30.4





#63

1,1,2,2-Tetrachloroethane

Concen: 10.121 ppbv

RT: 13.75 min Scan# 3409

Delta R.T. 0.01 min

Lab File: VL034451.D

Acq: 3 Dec 2019 7:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 1659186

Ion Ratio Lower Upper

83 100

131 9.6 4.9 14.7

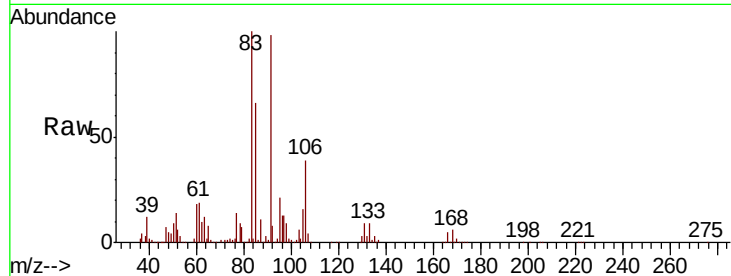
85 65.5 32.6 97.8

Manual Integrations

APPROVED

apatel

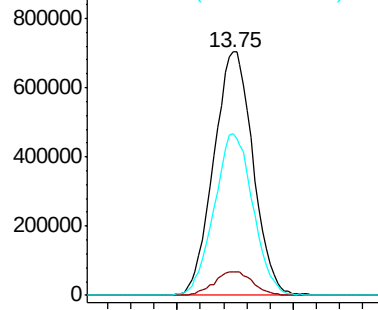
12/4/2019 4:47:48 PM



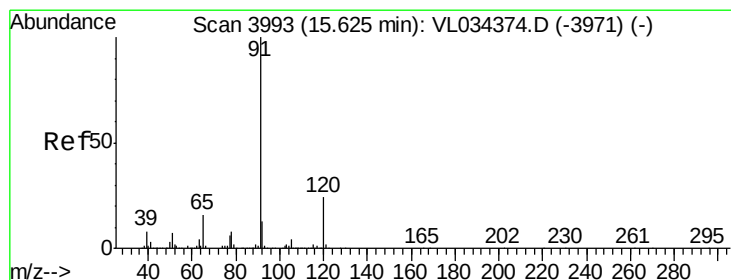
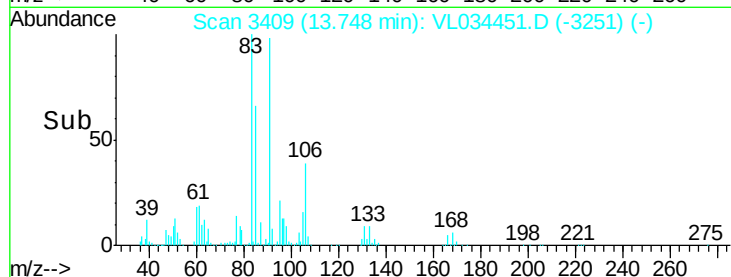
Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



Time-->



#64

n-propylbenzene

Concen: 10.665 ppbv

RT: 15.64 min Scan# 3996

Delta R.T. 0.01 min

Lab File: VL034451.D

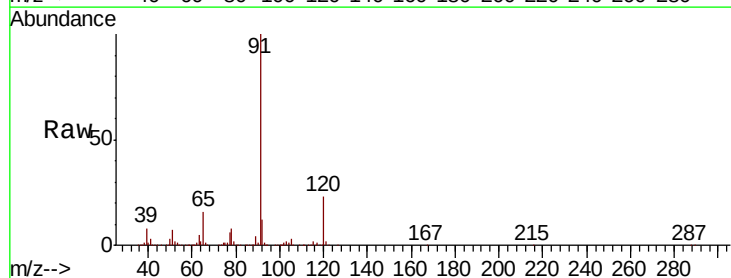
Acq: 3 Dec 2019 7:06

Tgt Ion: 120 Resp: 798813

Ion Ratio Lower Upper

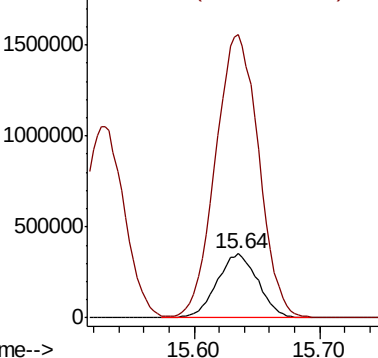
120 100

91 469.7 370.9 556.3

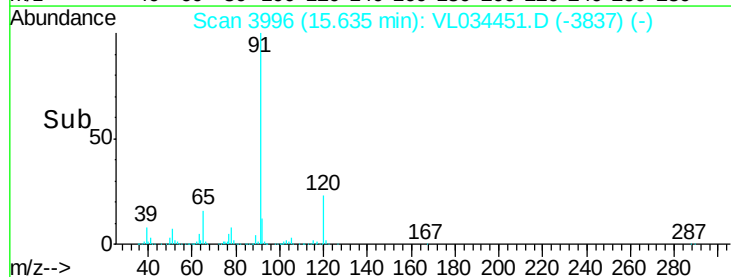


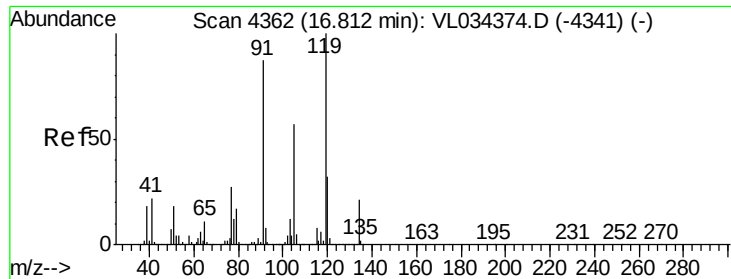
Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0



Time-->





#65

tert-Butylbenzene

Concen: 10.657 ppbv

RT: 16.82 min Scan# 4365

Delta R.T. 0.01 min

Lab File: VL034451.D

Acq: 3 Dec 2019 7:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:119 Resp: 2761156

Ion Ratio Lower Upper

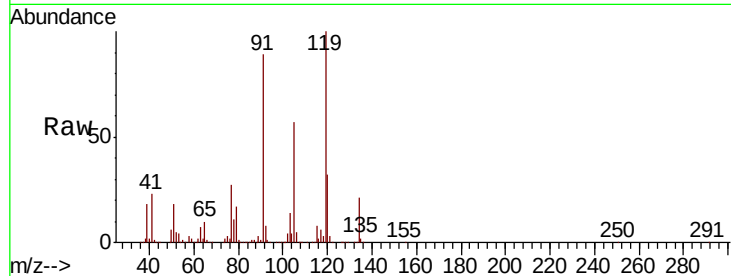
119 100

91 90.6 71.6 107.4

134 19.7 15.9 23.9

Manual Integrations
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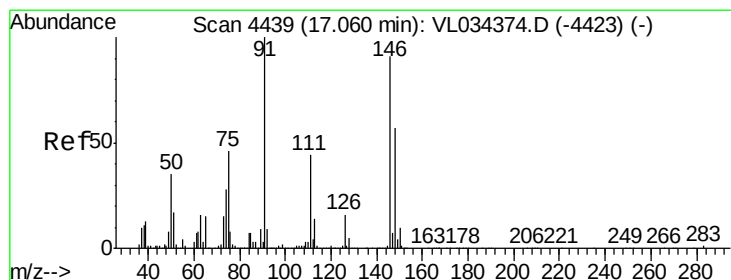
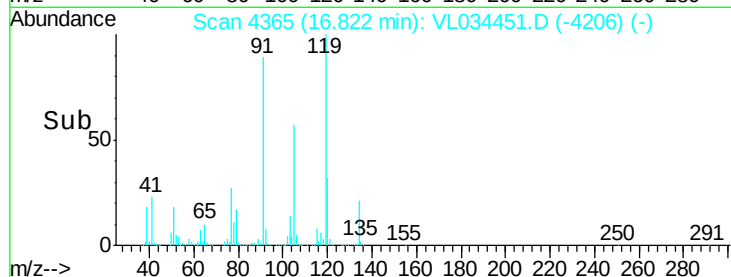
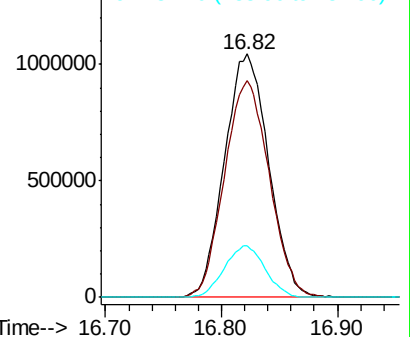
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 12.740 ppbv

RT: 17.07 min Scan# 4442

Delta R.T. 0.01 min

Lab File: VL034451.D

Acq: 3 Dec 2019 7:06

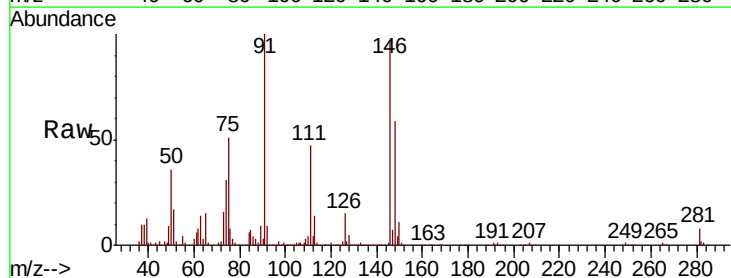
Tgt Ion: 91 Resp: 1269850

Ion Ratio Lower Upper

91 100

126 15.8 12.9 19.3

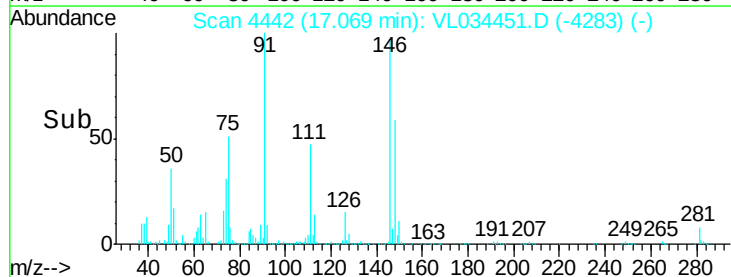
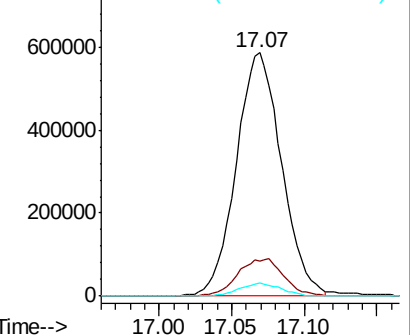
128 5.1 4.3 6.5

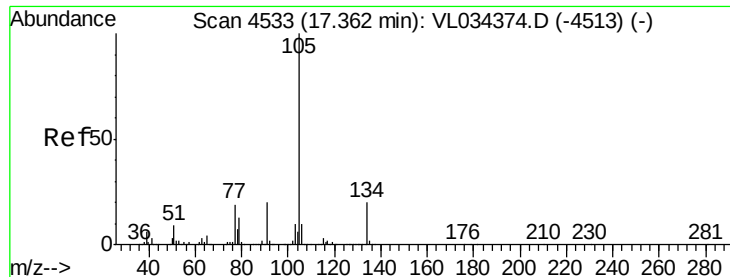


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 10.681 ppbv

RT: 17.37 min Scan# 4536

Delta R.T. 0.01 min

Lab File: VL034451.D

Acq: 3 Dec 2019 7:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 3870811

Ion Ratio Lower Upper

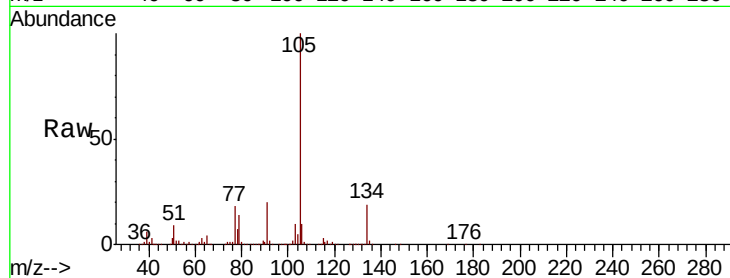
105 100

134 18.4 15.0 22.6

Manual Integrations
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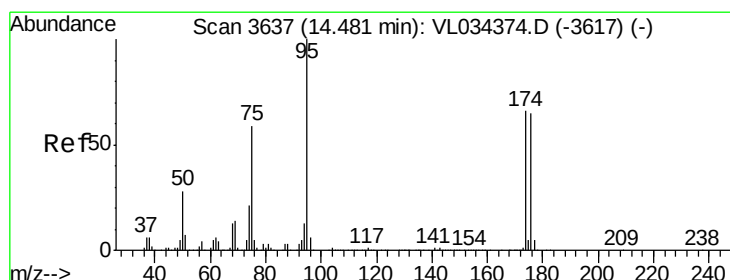
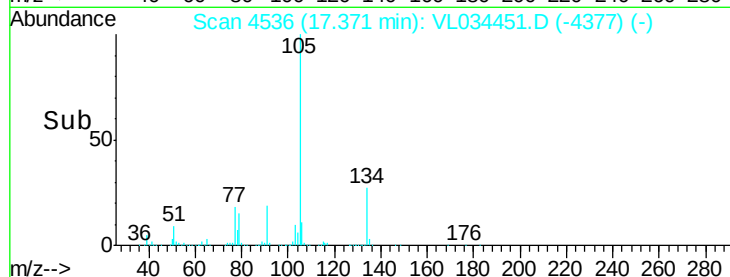
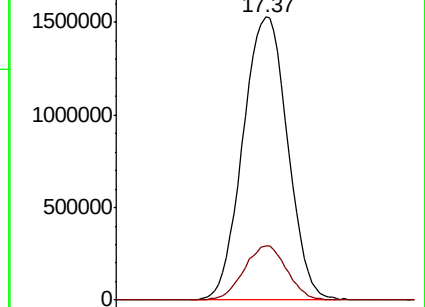
apatel

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.297 ppbv

RT: 14.49 min Scan# 3639

Delta R.T. 0.01 min

Lab File: VL034451.D

Acq: 3 Dec 2019 7:06

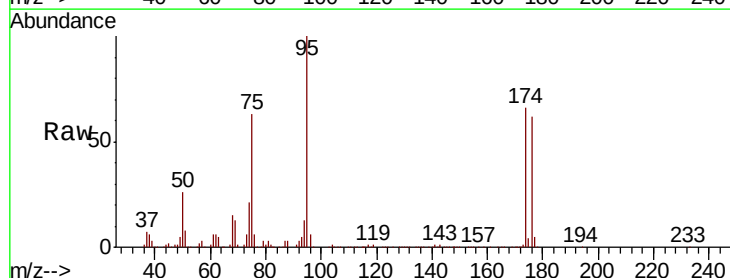
Tgt Ion: 95 Resp: 1286063

Ion Ratio Lower Upper

95 100

174 65.1 52.2 78.2

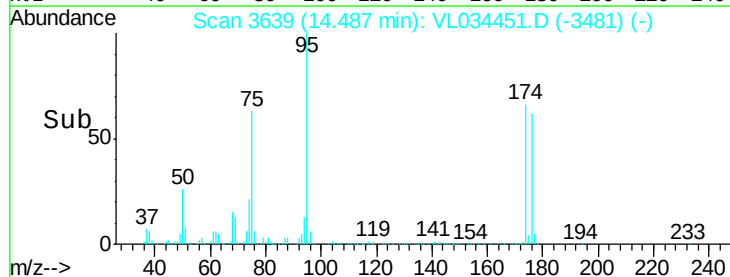
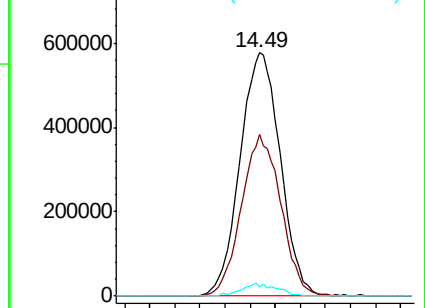
175 4.7 3.8 5.8

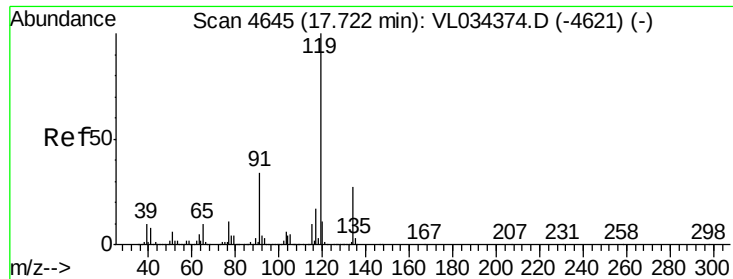


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





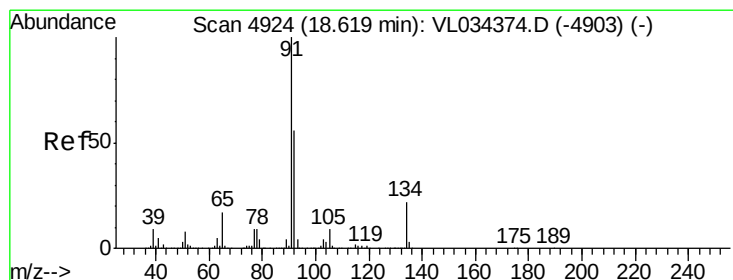
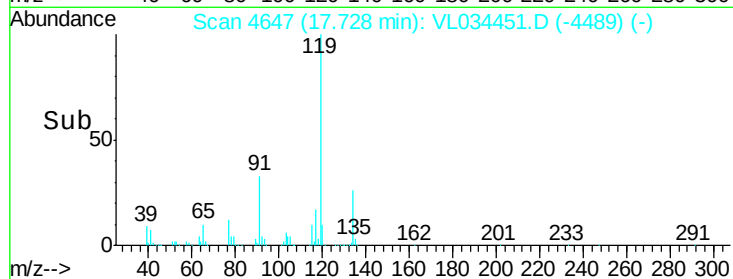
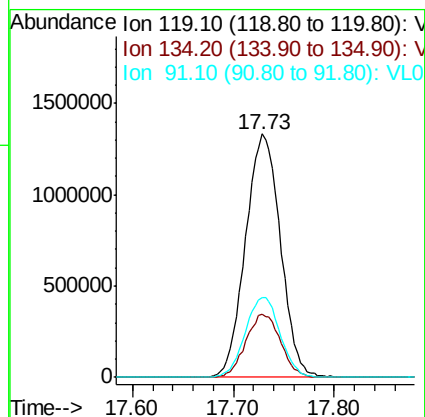
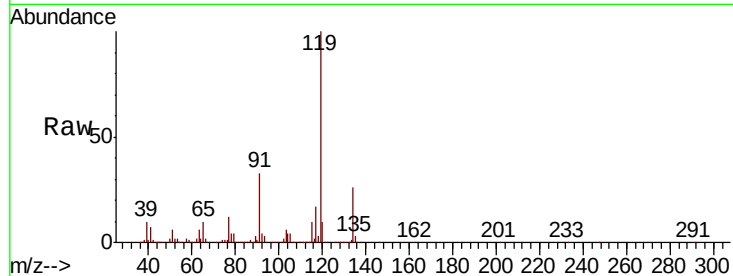
#69
 p-Isopropyltoluene
 Concen: 10.630 ppbv
 RT: 17.73 min Scan# 4647
 Delta R.T. 0.01 min
 Lab File: VL034451.D
 Acq: 3 Dec 2019 7:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:119 Resp: 3197268
 Ion Ratio Lower Upper
 119 100
 134 25.7 20.6 31.0
 91 32.8 26.3 39.5

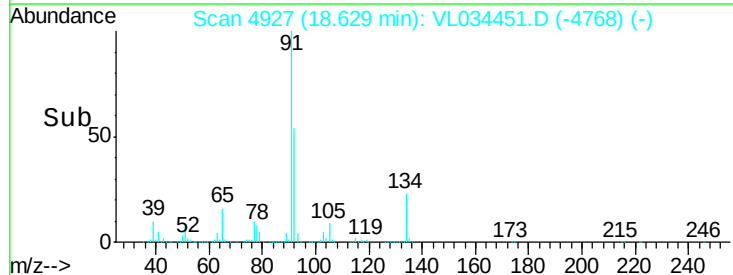
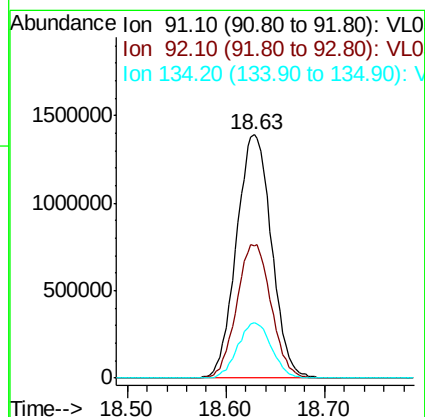
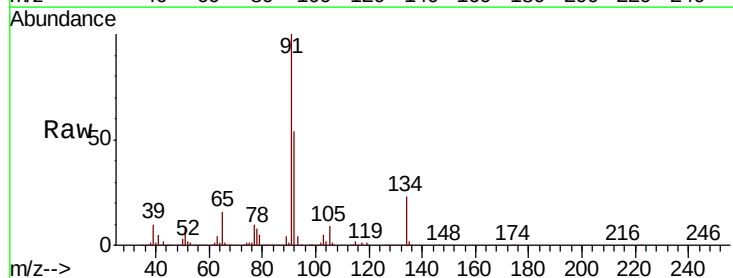
Manual Integrations
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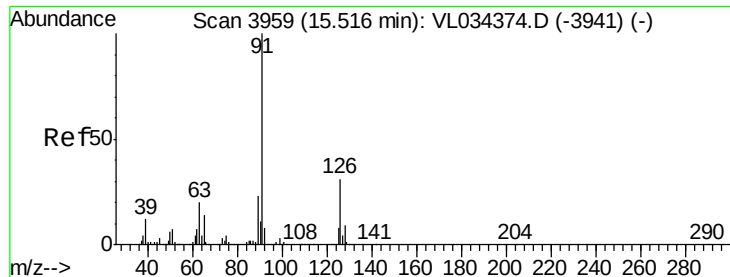
apatel
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#70
 n-Butylbenzene
 Concen: 10.585 ppbv
 RT: 18.63 min Scan# 4927
 Delta R.T. 0.01 min
 Lab File: VL034451.D
 Acq: 3 Dec 2019 7:06

Tgt Ion: 91 Resp: 3425689
 Ion Ratio Lower Upper
 91 100
 92 54.2 43.8 65.6
 134 22.1 17.9 26.9





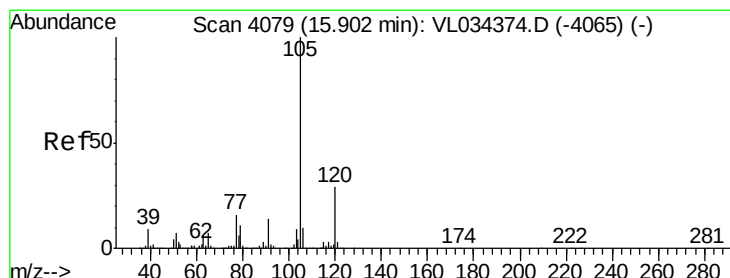
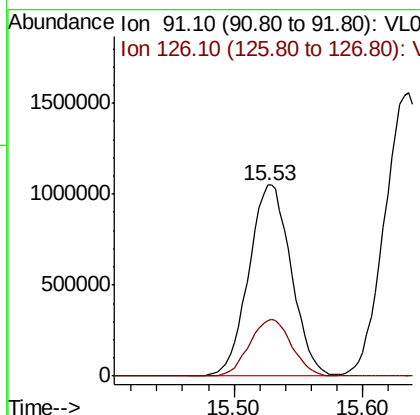
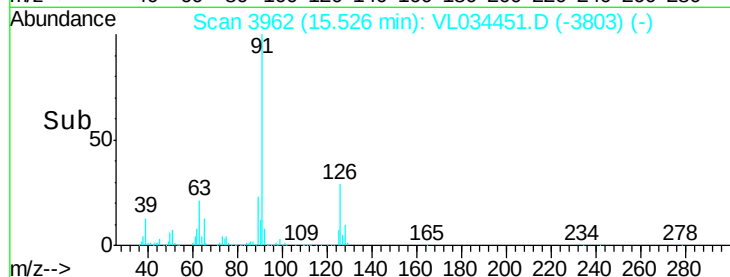
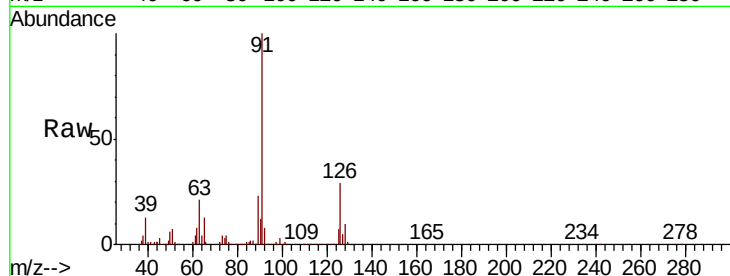
#71
 2-Chlorotoluene
 Concen: 10.466 ppbv
 RT: 15.53 min Scan# 3962
 Delta R.T. 0.01 min
 Lab File: VL034451.D
 Acq: 3 Dec 2019 7:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 91 Resp: 2407072
 Ion Ratio Lower Upper
 91 100
 126 29.5 11.8 47.4

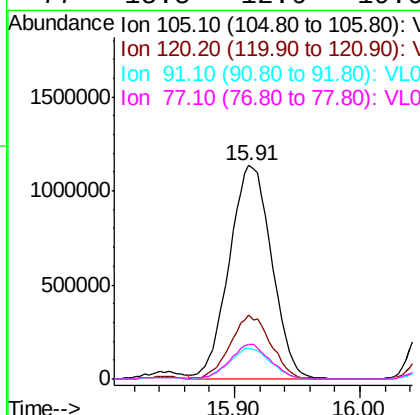
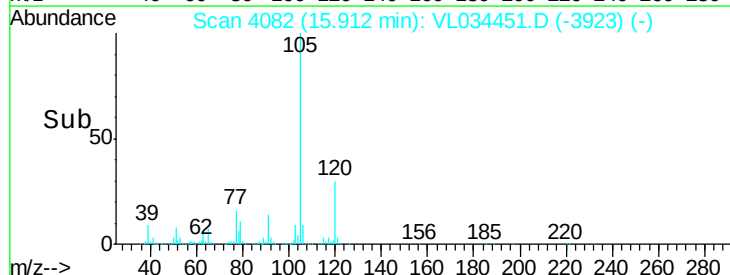
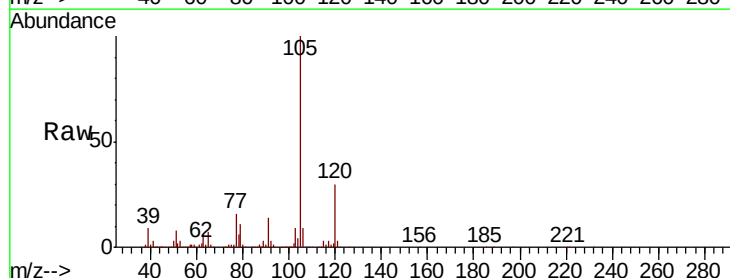
Manual Integrations
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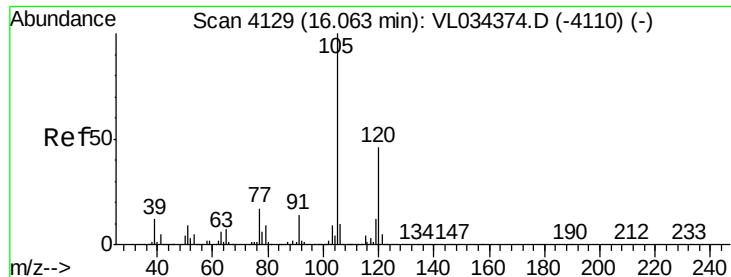
apatel
 12/4/2019 4:47:48 PM



#72
 4-Ethyltoluene
 Concen: 10.554 ppbv
 RT: 15.91 min Scan# 4082
 Delta R.T. 0.01 min
 Lab File: VL034451.D
 Acq: 3 Dec 2019 7:06

Tgt Ion: 105 Resp: 2659476
 Ion Ratio Lower Upper
 105 100
 120 28.4 23.5 35.3
 91 14.1 11.4 17.0
 77 15.5 12.6 19.0





#73

1,3,5-Trimethylbenzene

Concen: 10.480 ppbv

RT: 16.08 min Scan# 4133

Delta R.T. 0.01 min

Lab File: VL034451.D

Acq: 3 Dec 2019 7:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 2584985

Ion Ratio Lower Upper

105 100

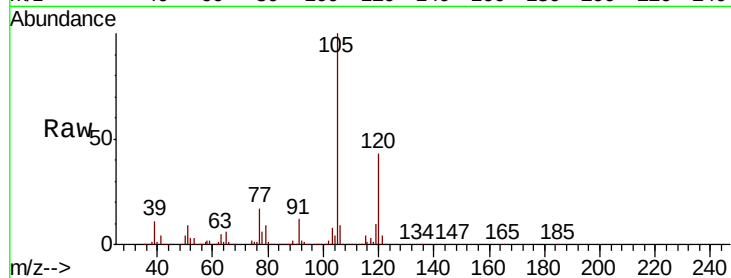
120 43.1 37.1 55.7

Manual Integrations

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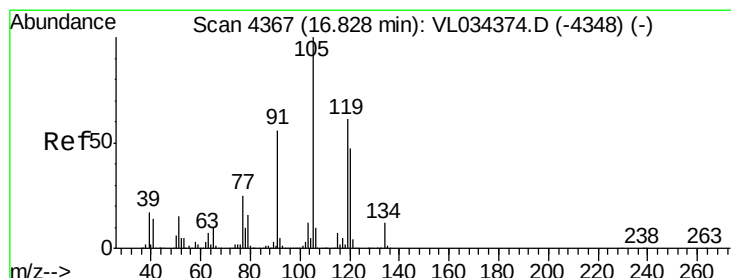
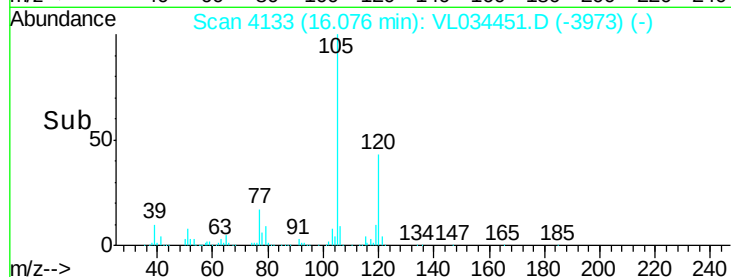
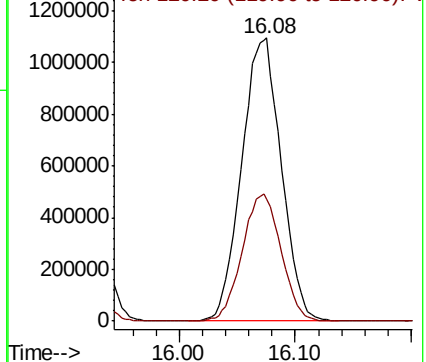
apatel

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 10.136 ppbv

RT: 16.84 min Scan# 4370

Delta R.T. 0.01 min

Lab File: VL034451.D

Acq: 3 Dec 2019 7:06

Tgt Ion:105 Resp: 2655827

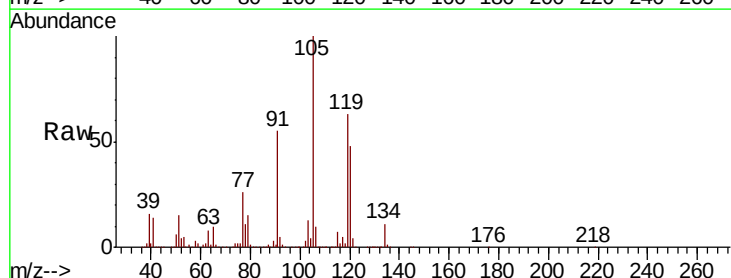
Ion Ratio Lower Upper

105 100

120 47.5 37.4 56.0

91 55.2 46.3 69.5

77 25.9 20.6 30.8

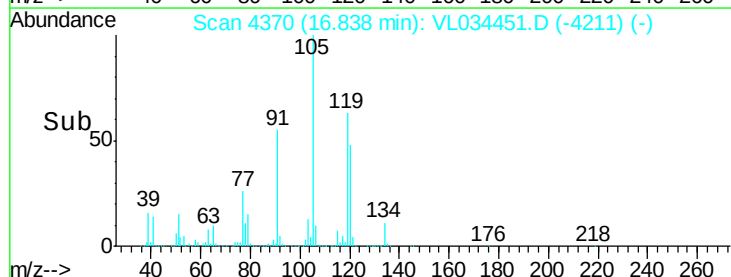
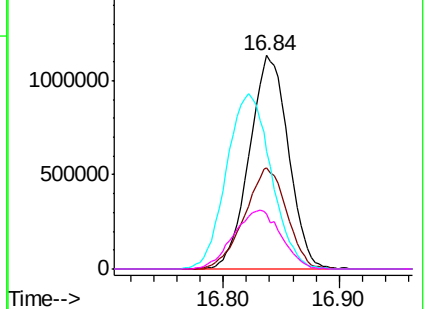


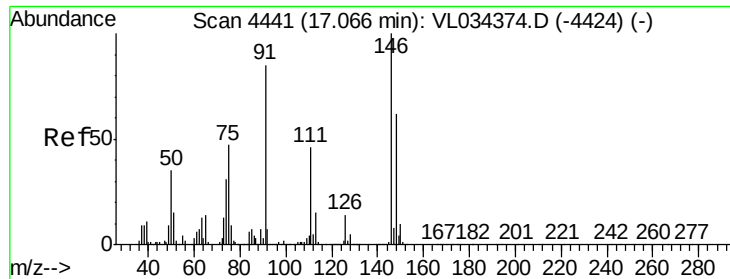
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





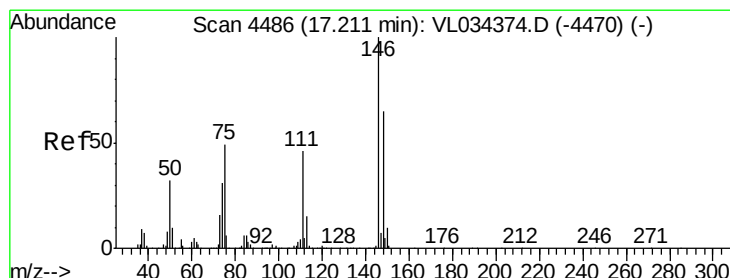
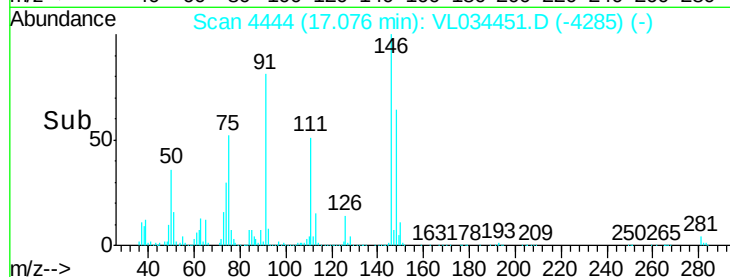
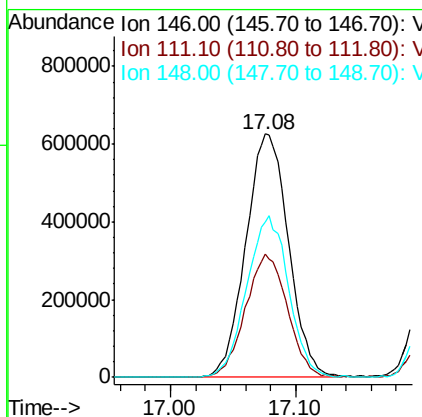
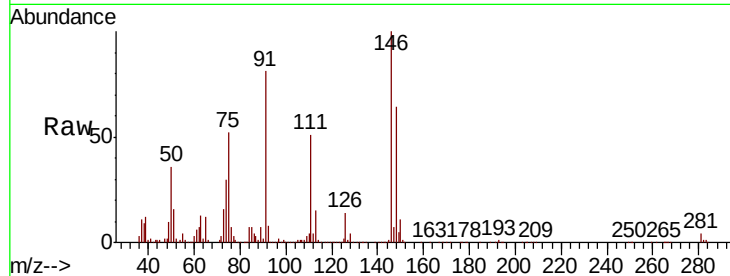
#75
 1,3-Dichlorobenzene
 Concen: 9.811 ppbv
 RT: 17.08 min Scan# 4444
 Delta R.T. 0.01 min
 Lab File: VL034451.D
 Acq: 3 Dec 2019 7:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.9	24.4	73.4
148	65.4	32.4	97.0

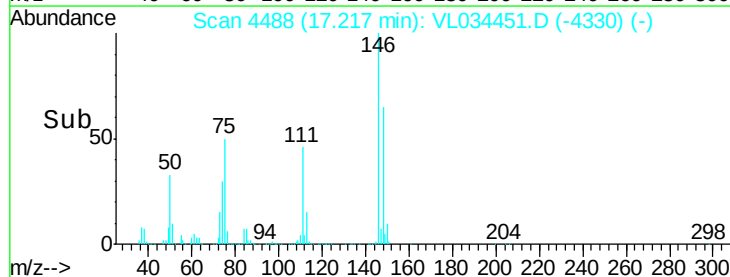
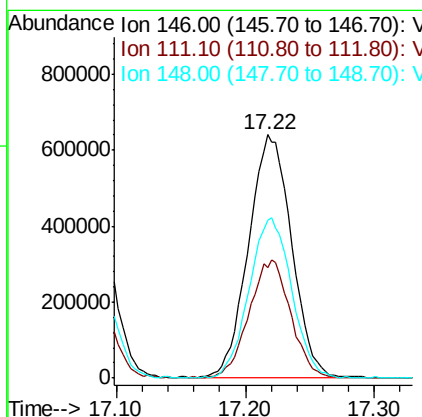
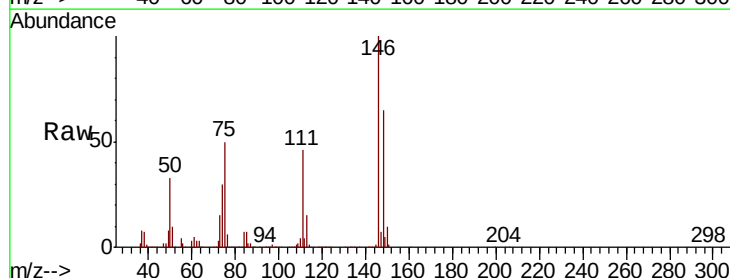
Manual Integrations
 APPROVED

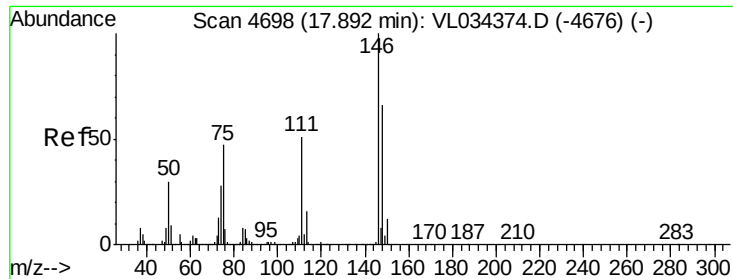
apatel
 12/4/2019 4:47:48 PM



#76
 1,4-Dichlorobenzene
 Concen: 10.136 ppbv
 RT: 17.22 min Scan# 4488
 Delta R.T. 0.01 min
 Lab File: VL034451.D
 Acq: 3 Dec 2019 7:06

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.5	24.1	72.3
148	65.8	32.9	98.6





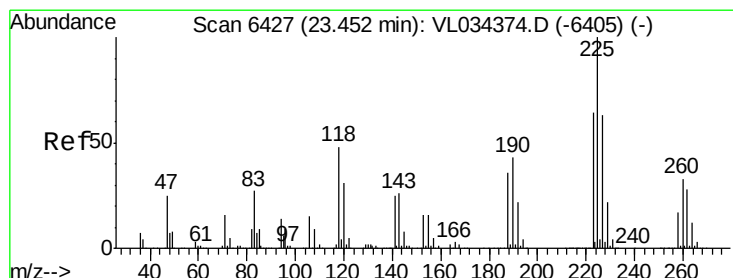
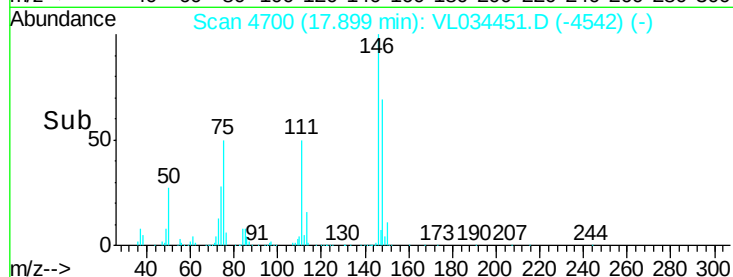
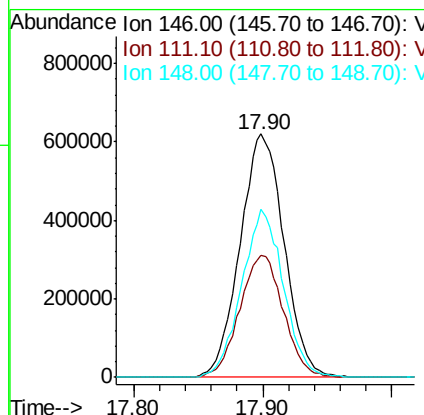
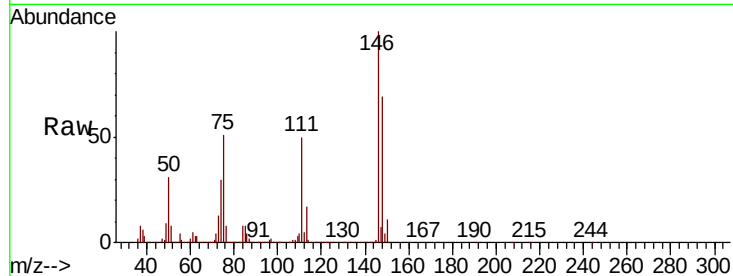
#77
 1,2-Dichlorobenzene
 Concen: 10.145 ppbv
 RT: 17.90 min Scan# 4700
 Delta R.T. 0.01 min
 Lab File: VL034451.D
 Acq: 3 Dec 2019 7:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.9	25.0	75.0
148	65.5	32.7	98.1

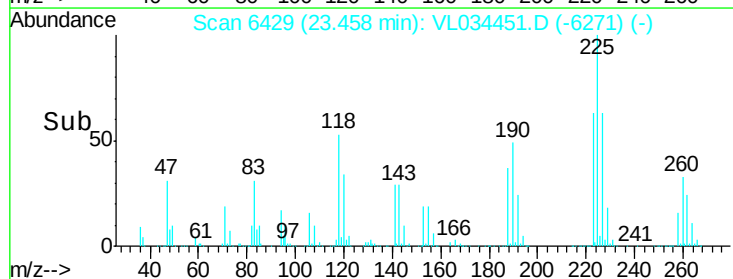
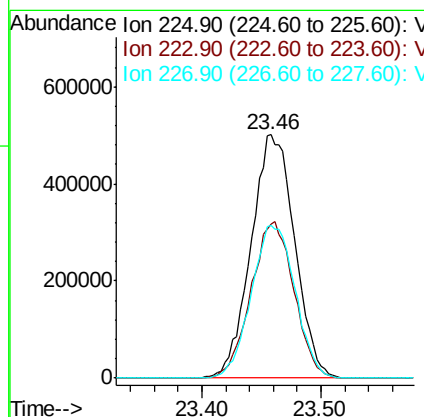
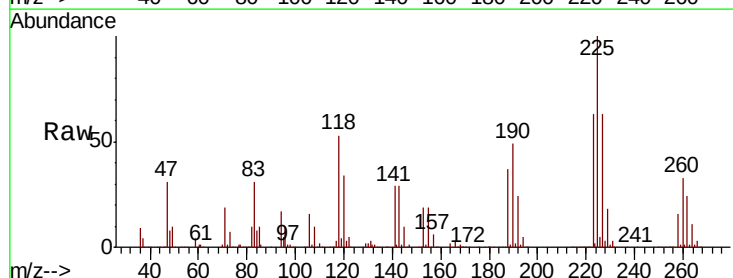
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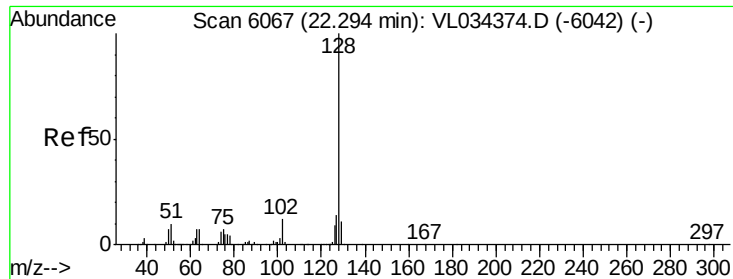
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#78
 Hexachloro-1,3-Butadiene
 Concen: 10.166 ppbv
 RT: 23.46 min Scan# 6429
 Delta R.T. 0.01 min
 Lab File: VL034451.D
 Acq: 3 Dec 2019 7:06

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.3	50.2	75.2
227	63.5	51.5	77.3





#79

Naphthalene

Concen: 9.876 ppbv

RT: 22.30 min Scan# 6070

Delta R.T. 0.01 min

Lab File: VL034451.D

Acq: 3 Dec 2019 7:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:128 Resp: 2243307

Ion Ratio Lower Upper

128 100

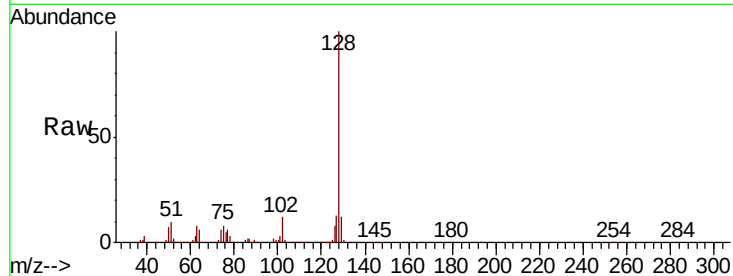
127 13.2 11.0 16.6

129 11.6 8.9 13.3

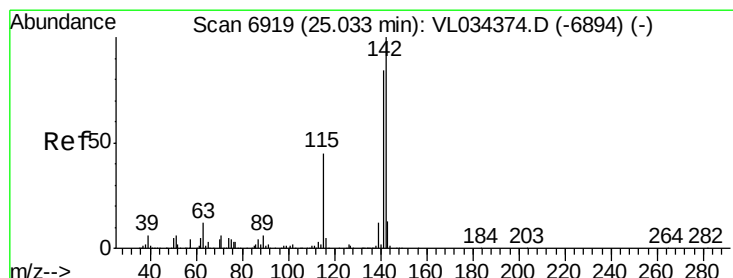
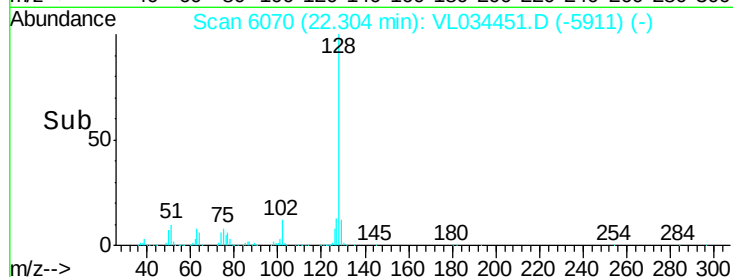
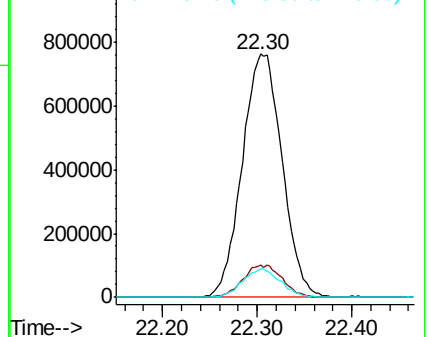
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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 5.651 ppbv

RT: 25.04 min Scan# 6922

Delta R.T. 0.01 min

Lab File: VL034451.D

Acq: 3 Dec 2019 7:06

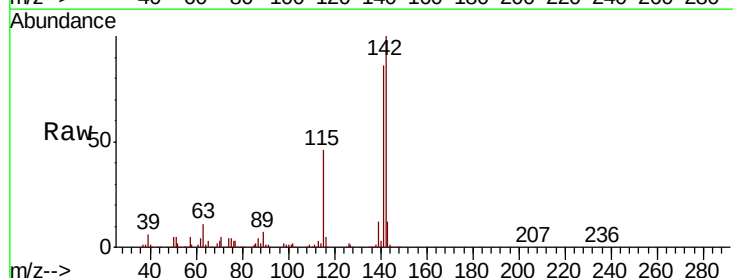
Tgt Ion:142 Resp: 579630

Ion Ratio Lower Upper

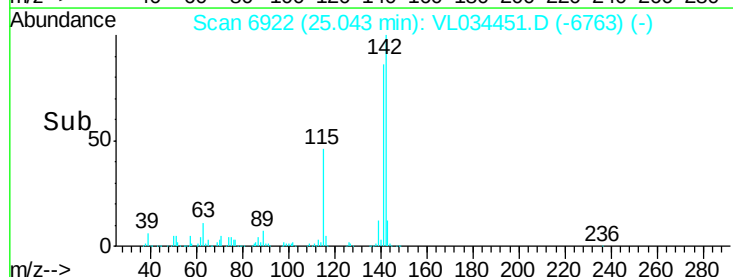
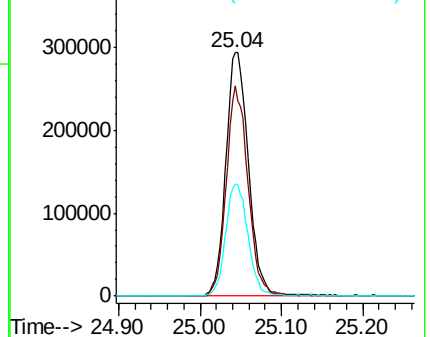
142 100

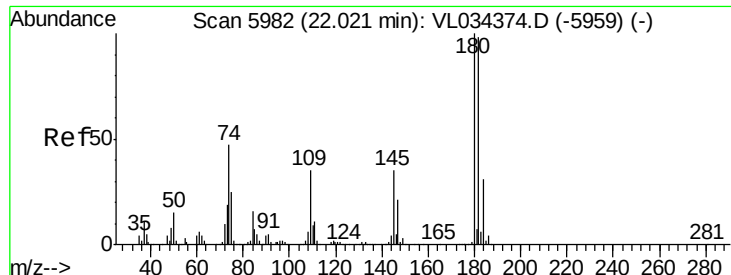
141 82.3 67.1 100.7

115 45.7 36.6 54.8



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 9.104 ppbv
 RT: 22.03 min Scan# 5986
 Delta R.T. 0.01 min
 Lab File: VL034451.D
 Acq: 3 Dec 2019 7:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.2	76.8	115.2
184	31.2	24.9	37.3

Manual Integrations
 APPROVED

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