

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092419\
 Data File : VL034199.D
 Acq On : 24 Sep 2019 12:31
 Operator : SY/AP
 Sample : VL0924ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0924ABS01

Manual Integrations
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MMDadoda
 9/26/2019 12:39:30 AM

Quant Time: Sep 25 05:53:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 18 12:53:31 2019
 QLast Update : Wed Sep 18 12:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1140640	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	1948821	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	2244437	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.50	95	1799707	9.23	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	1459431	8.662	ppbv	99
3) Chlorodifluoromethane	2.97	51	1266588	9.470	ppbv	100
4) Chloromethane	3.13	50	759350	9.662	ppbv	99
5) Vinyl Chloride	3.25	62	669101	9.316	ppbv	98
6) Bromomethane	3.47	94	323718	9.660	ppbv	99
7) Chloroethane	3.55	64	242707	9.668	ppbv	98
8) Dichlorotetrafluoroethane	3.18	85	1406608	9.459	ppbv	97
9) Propene	2.99	41	620857	9.409	ppbv	99
10) Heptane	8.18	43	1659198	9.648	ppbv	100
11) Trichlorofluoromethane	3.95	101	1480264	9.652	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.50	101	959498	9.560	ppbv	99
13) Ethanol	3.60	45	133021	8.325	ppbv	98
14) Bromoethene	3.74	108	406867	9.915	ppbv	99
15) Acetone	3.85	43	1268545	8.298	ppbv	100
16) 1,3-Butadiene	3.32	39	667793	10.009	ppbv	100
17) tert-Butyl alcohol	4.30	59	1075766	11.106	ppbv	99
18) 1,1-Dichloroethene	4.30	96	433496	9.903	ppbv	95
19) Isopropyl Alcohol	3.98	45	961352	10.226	ppbv	100
20) Methylene Chloride	4.35	84	407413	9.243	ppbv	96
21) Allyl Chloride	4.42	41	881402	10.207	ppbv	99
22) trans-1,2-Dichloroethene	4.91	96	426332	9.734	ppbv	98
23) Vinyl Acetate	5.10	43	2169194	9.629	ppbv	99
24) 1,1-Dichloroethane	5.03	63	1408460	9.285	ppbv	99
25) Ethyl Acetate	5.71	43	2644619	9.148	ppbv	100
26) Hexane	5.72	57	1128036	9.380	ppbv	99
27) Carbon Disulfide	4.56	76	1192044	10.748	ppbv	100
28) Methyl tert-Butyl Ether	5.05	73	1700823	9.523	ppbv	100
29) Chloroform	5.79	83	1644212	9.568	ppbv	98
30) Cyclohexane	7.18	84	828797	9.546	ppbv	97
31) cis-1,2-Dichloroethene	5.58	61	1194837	9.747	ppbv	95
32) 1,1,1-Trichloroethane	6.56	97	1569502	9.470	ppbv	99
34) 2-Butanone	5.27	43	1840715	9.250	ppbv	100
35) Carbon Tetrachloride	7.07	117	1562456	9.650	ppbv	97
36) Benzene	6.94	78	2023988	9.404	ppbv	98
37) 1,2-Dichloroethane	6.35	62	1485650	9.704	ppbv	99
38) Trichloroethene	7.89	130	681278	8.859	ppbv	97
39) 1,2-Dichloropropane	7.67	63	898726	9.293	ppbv	98
40) 1,4-Dioxane	7.88	88	298330	9.533	ppbv #	91
41) Tetrahydrofuran	6.09	42	1100892	9.823	ppbv	99
42) Bromodichloromethane	7.85	83	1820744	9.910	ppbv	99
43) Methyl Methacrylate	8.07	69	886148	9.966	ppbv	98

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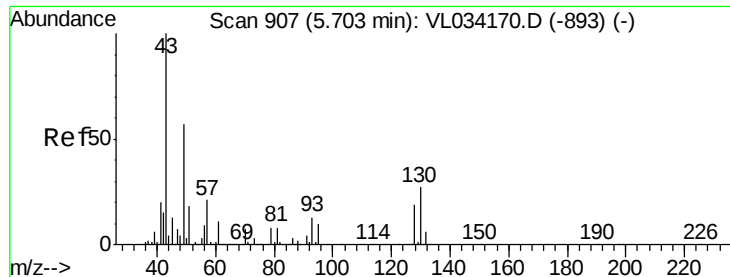
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Quant Time: Sep 25 05:53:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 18 2019
 QLast Update : Wed Sep 18 12:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.92	57	3786417	9.138	ppbv	99
45) t-1,3-Dichloropropene	9.35	75	1167573	11.106	ppbv	96
46) cis-1,3-Dichloropropene	8.77	75	1319352	10.433	ppbv	100
47) 1,1,2-Trichloroethane	9.55	97	807808	9.302	ppbv	97
48) Dibromochloromethane	10.38	129	1362616	9.900	ppbv	100
49) Bromoform	13.13	173	1126453	10.114	ppbv	98
50) 4-Methyl-2-Pentanone	8.80	43	2702739	9.333	ppbv	98
51) 2-Hexanone	10.20	43	2298039	9.456	ppbv	99
52) Tetrachloroethene	11.30	164	608067	8.551	ppbv	92
53) Toluene	9.87	91	2217651	9.428	ppbv	99
54) 1,2-Dibromoethane	10.69	107	1213807	9.399	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.21	131	887741	8.869	ppbv	99
57) Chlorobenzene	12.23	112	1591992	8.147	ppbv	97
58) Ethyl Benzene	12.79	91	3032873	8.375	ppbv	98
59) m/p-Xylene	13.08	91	4977122m	16.593	ppbv	
60) o-Xylene	13.77	91	2479764	8.268	ppbv	99
61) Styrene	13.61	104	1820620	8.474	ppbv	99
62) Isopropylbenzene	14.75	105	3205543	8.256	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.77	83	1827207	7.429	ppbv	99
64) n-propylbenzene	15.65	120	811510	8.261	ppbv	90
65) tert-Butylbenzene	16.84	119	2725122	8.033	ppbv	100
66) Benzyl Chloride	17.09	91	1289219	10.741	ppbv	99
67) sec-Butylbenzene	17.39	105	3936658	8.115	ppbv	99
69) p-Isopropyltoluene	17.74	119	3193901	8.130	ppbv	99
70) n-Butylbenzene	18.64	91	3653284	7.987	ppbv	98
71) 2-Chlorotoluene	15.55	91	2630423	8.292	ppbv	100
72) 4-Ethyltoluene	15.93	105	2820235	8.322	ppbv	99
73) 1,3,5-Trimethylbenzene	16.09	105	2722961	8.318	ppbv	99
74) 1,2,4-Trimethylbenzene	16.85	105	2724616	7.838	ppbv	98
75) 1,3-Dichlorobenzene	17.09	146	1463912	7.849	ppbv	99
76) 1,4-Dichlorobenzene	17.23	146	1477430	7.735	ppbv	98
77) 1,2-Dichlorobenzene	17.92	146	1451005	7.687	ppbv	98
78) Hexachloro-1,3-Butadiene	23.47	225	1086403	8.689	ppbv	99
79) Naphthalene	22.32	128	2417423	7.900	ppbv	97
80) Naphthalene, 2-methyl-	25.06	142	1038008	7.294	ppbv	99
81) 1,2,4-Trichlorobenzene	22.05	180	1316714	7.767	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 906

Delta R.T. -0.00 min

Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

Instrument :

MSVOA_L

ClientSampleId :

VL0924ABS01

Tot Ion: 49 Resp: 1140640

Ion Ratio Lower Upper

49 100

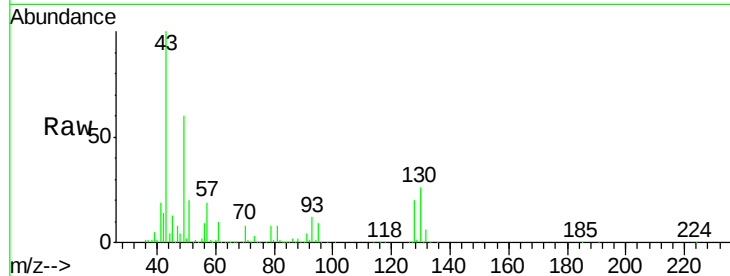
128 34.3 17.6 52.9

130 43.1 22.3 66.9

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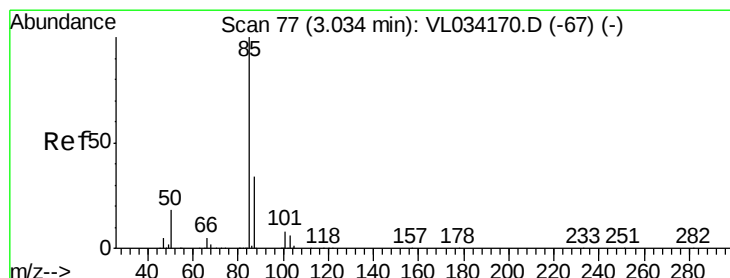
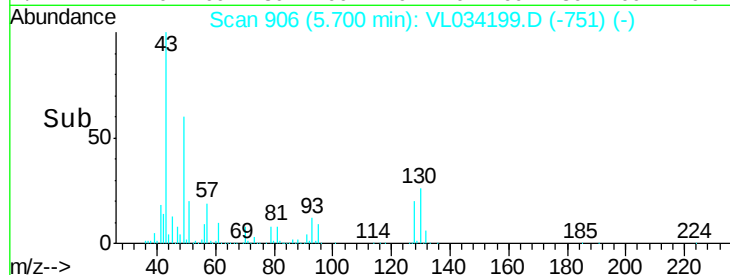
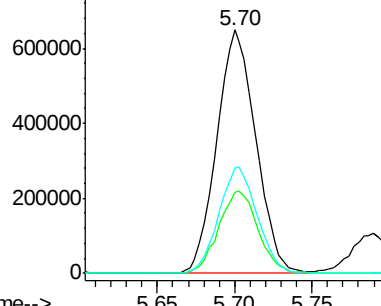
9/26/2019 12:39:30 AM



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: 8.662 ppbv

RT: 3.03 min Scan# 77

Delta R.T. 0.00 min

Lab File: VL034199.D

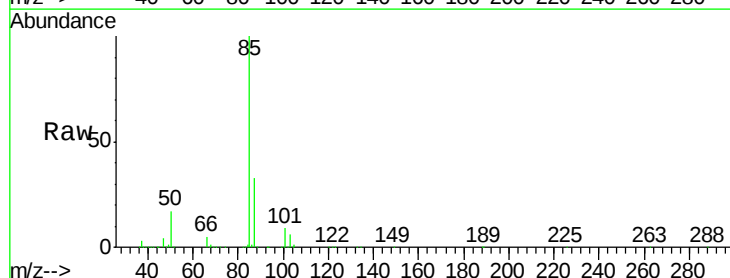
Acq: 24 Sep 2019 12:31

Tgt Ion: 85 Resp: 1459431

Ion Ratio Lower Upper

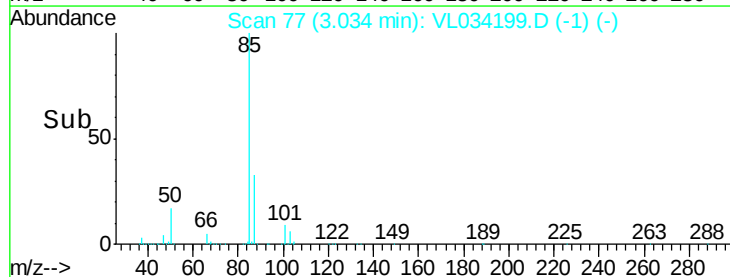
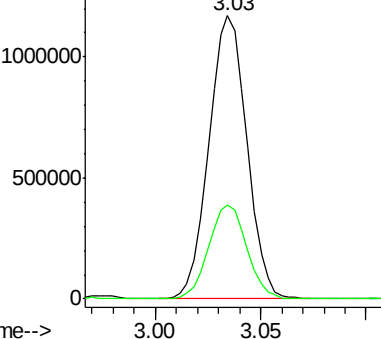
85 100

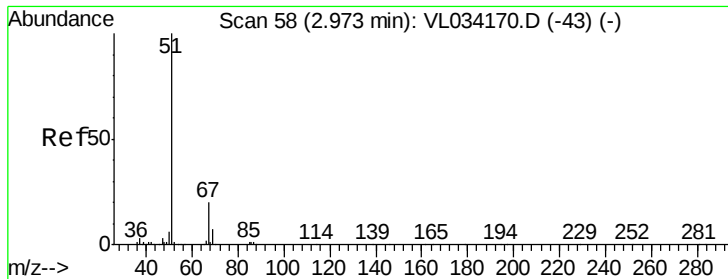
87 33.2 27.2 40.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.470 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.00 min

Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

Tot Ion: 51 Resp: 1266588

Ion Ratio Lower Upper

51 100

67 18.6 14.8 22.2

Instrument :

MSVOA_L

ClientSampleId :

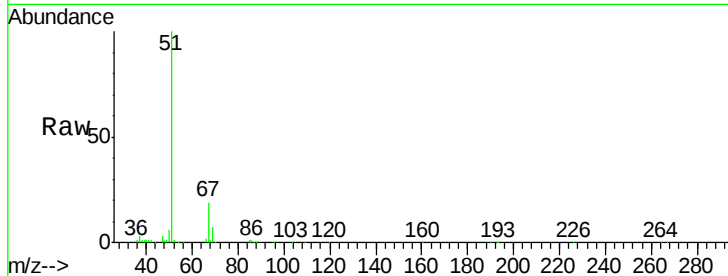
VL0924ABS01

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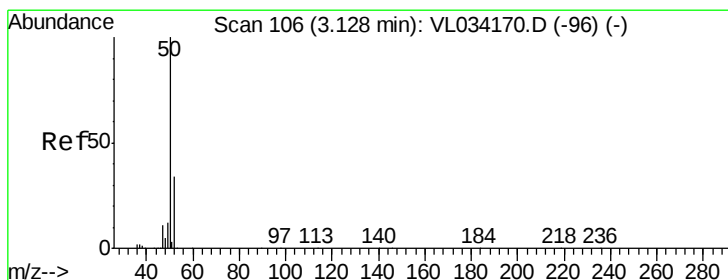
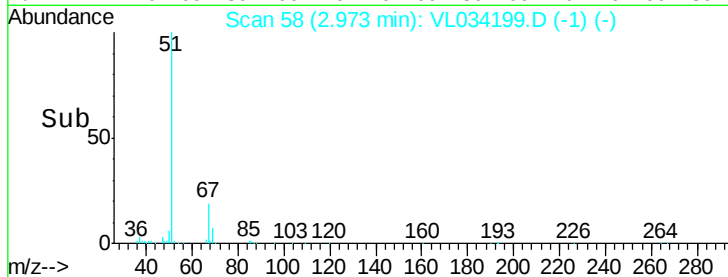
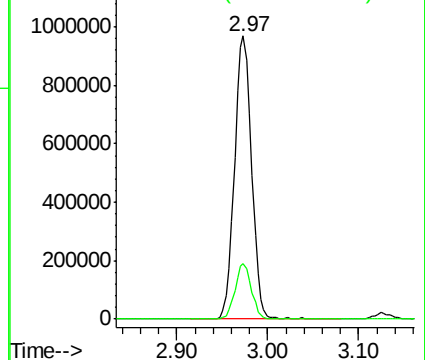
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.662 ppbv

RT: 3.13 min Scan# 106

Delta R.T. 0.00 min

Lab File: VL034199.D

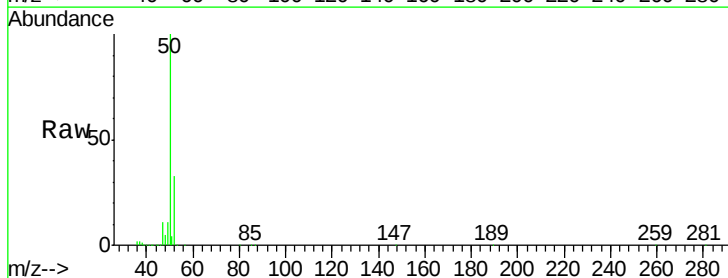
Acq: 24 Sep 2019 12:31

Tgt Ion: 50 Resp: 759350

Ion Ratio Lower Upper

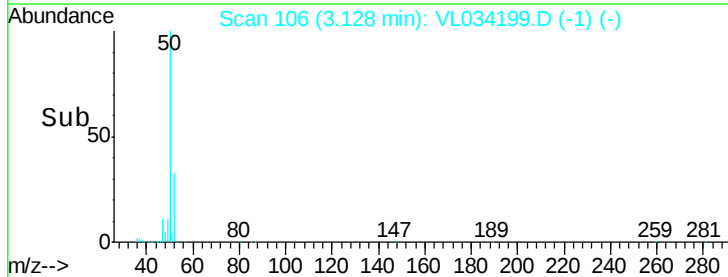
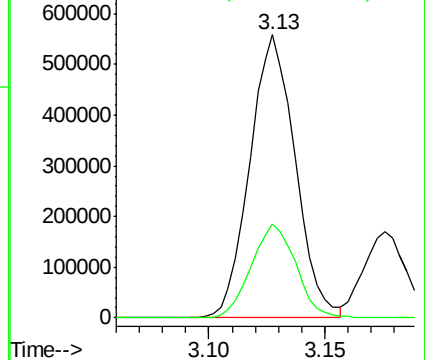
50 100

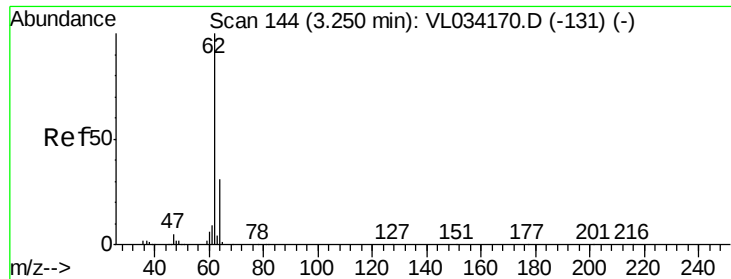
52 33.4 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.316 ppbv

RT: 3.25 min Scan# 143

Delta R.T. -0.00 min

Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

Instrument :

MSVOA_L

ClientSampleId :

VL0924ABS01

Tot Ion: 62 Resp: 669101

Ion Ratio Lower Upper

62 100

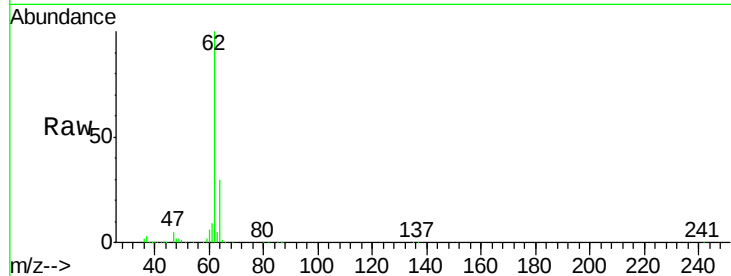
64 30.2 25.2 37.8

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.25

500000

400000

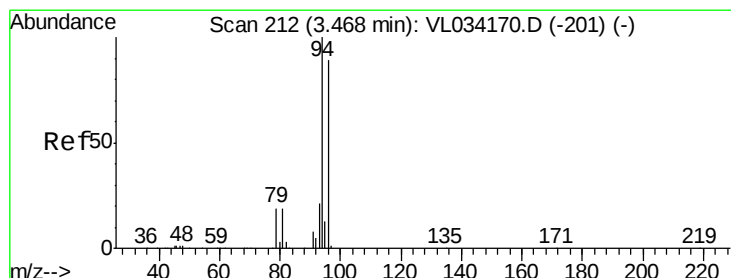
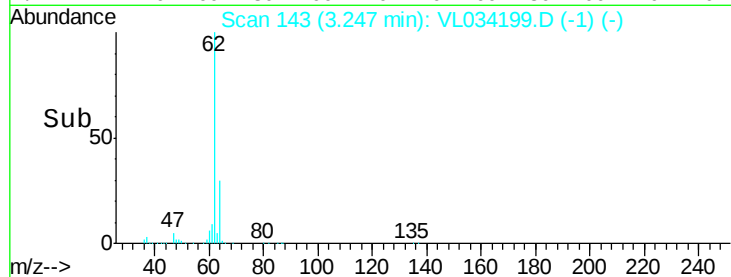
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 9.660 ppbv

RT: 3.47 min Scan# 212

Delta R.T. 0.00 min

Lab File: VL034199.D

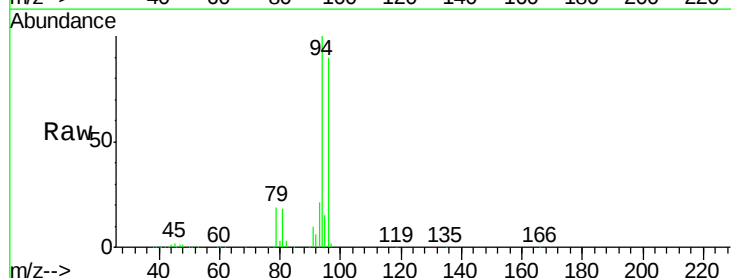
Acq: 24 Sep 2019 12:31

Tgt Ion: 94 Resp: 323718

Ion Ratio Lower Upper

94 100

96 89.6 71.3 106.9



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.47

250000

200000

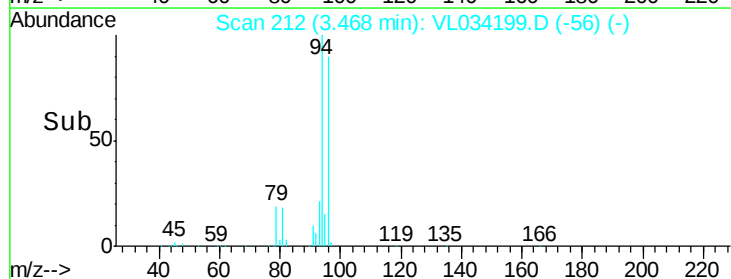
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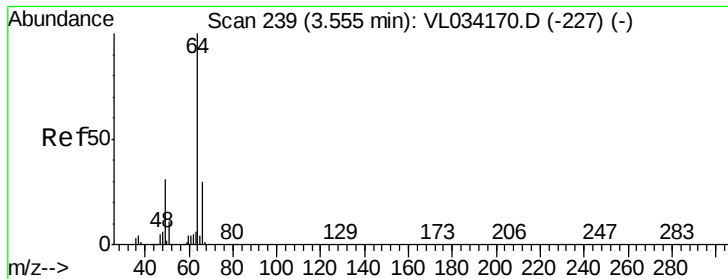
100000

50000

0

Time-->





#7

Chloroethane

Concen: 9.668 ppbv

RT: 3.55 min Scan# 238

Delta R.T. -0.00 min

Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

Instrument :

MSVOA_L

ClientSampleId :

VL0924ABS01

Tot Ion: 64 Resp: 242707

Ion Ratio Lower Upper

64 100

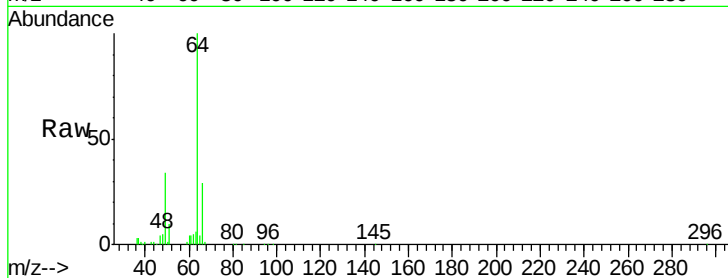
66 29.3 24.2 36.4

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

200000

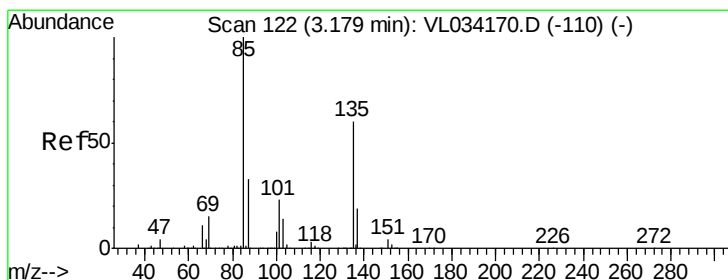
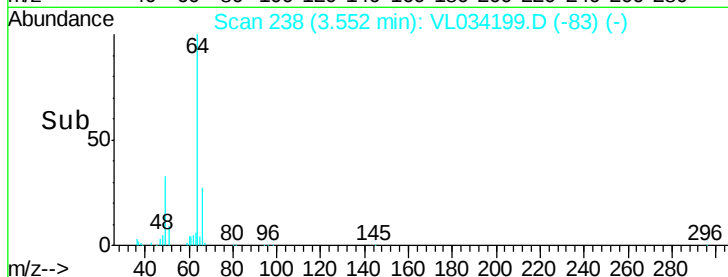
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.459 ppbv

RT: 3.18 min Scan# 121

Delta R.T. -0.00 min

Lab File: VL034199.D

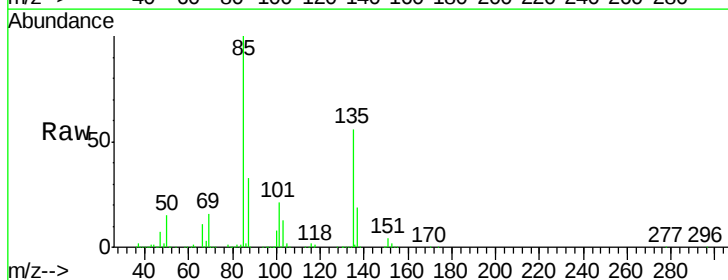
Acq: 24 Sep 2019 12:31

Tgt Ion: 85 Resp: 1406608

Ion Ratio Lower Upper

85 100

135 57.0 47.3 70.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.18

1200000

1000000

800000

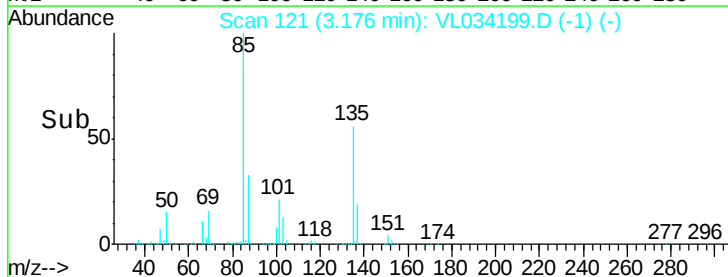
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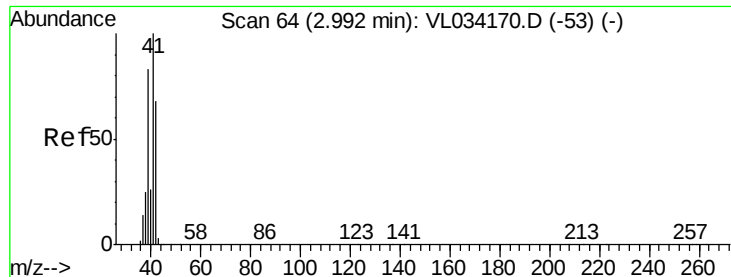
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Time-->





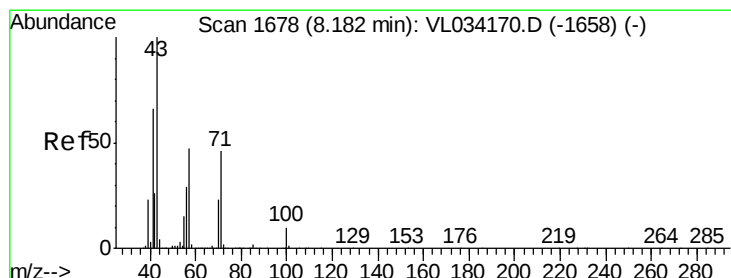
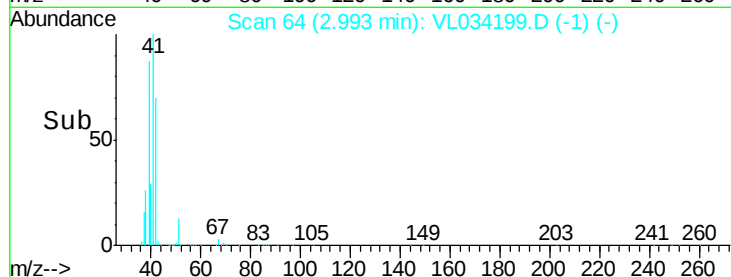
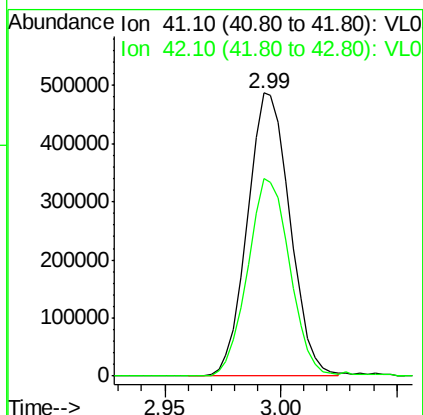
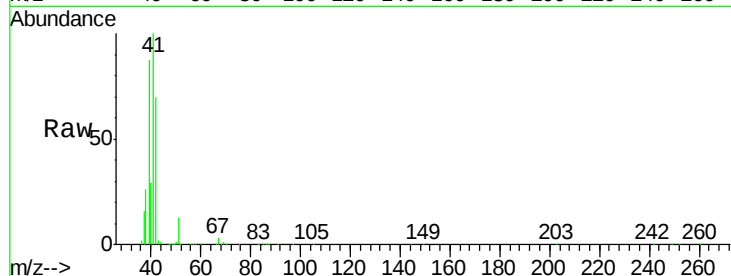
#9
 Propene
 Concen: 9.409 ppbv
 RT: 2.99 min Scan# 64
 Delta R.T. 0.00 min
 Lab File: VL034199.D
 Acq: 24 Sep 2019 12:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0924ABS01

Tot Ion: 41 Resp: 620857
 Ion Ratio Lower Upper
 41 100
 42 70.4 55.8 83.6

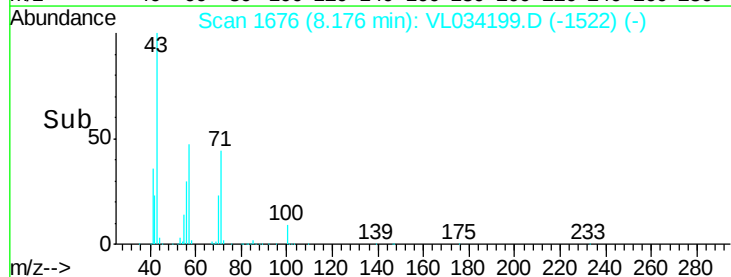
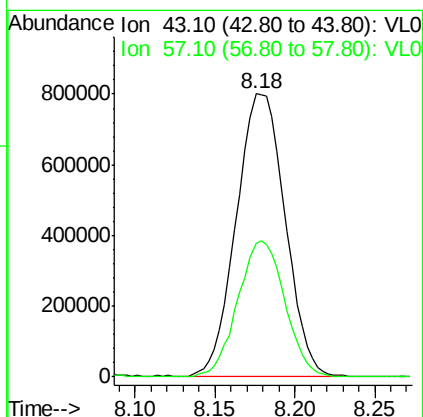
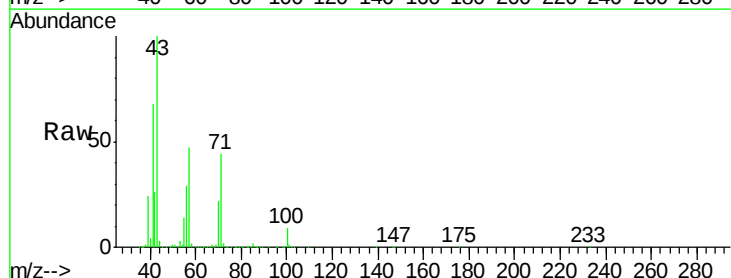
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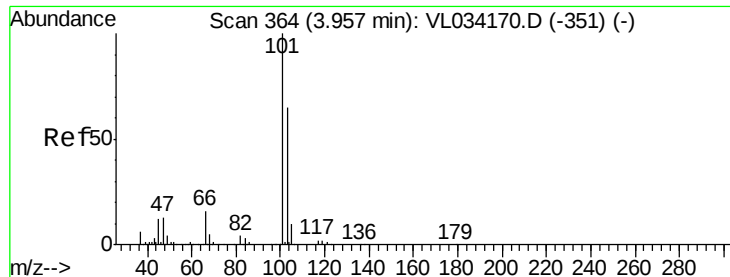
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#10
 Heptane
 Concen: 9.648 ppbv
 RT: 8.18 min Scan# 1676
 Delta R.T. -0.01 min
 Lab File: VL034199.D
 Acq: 24 Sep 2019 12:31

Tgt Ion: 43 Resp: 1659198
 Ion Ratio Lower Upper
 43 100
 57 46.7 37.5 56.3





#11

Trichlorofluoromethane

Concen: 9.652 ppbv

RT: 3.95 min Scan# 363

Delta R.T. -0.00 min

Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

Instrument :

MSVOA_L

ClientSampleId :

VL0924ABS01

Tot Ion:101 Resp: 1480264

Ion Ratio Lower Upper

101 100

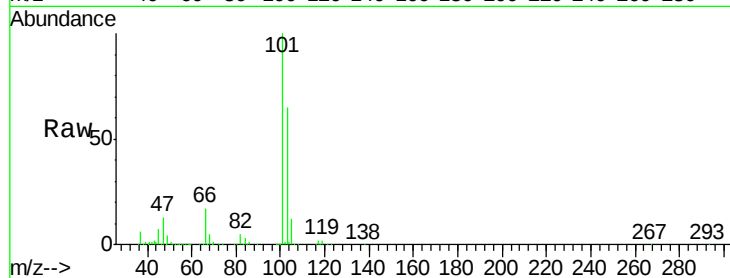
103 64.7 52.1 78.1

Manual Integrations

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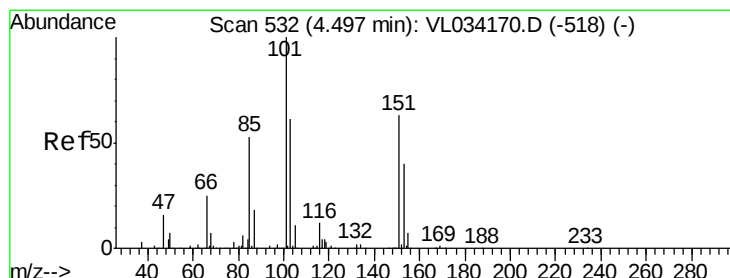
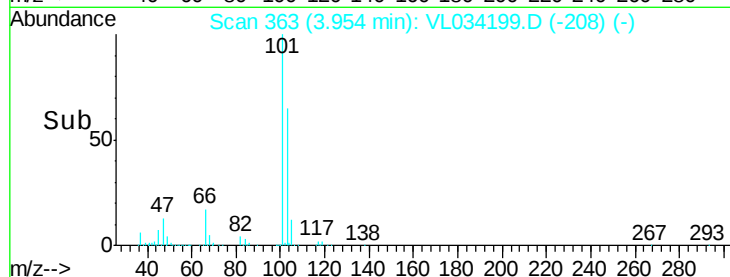
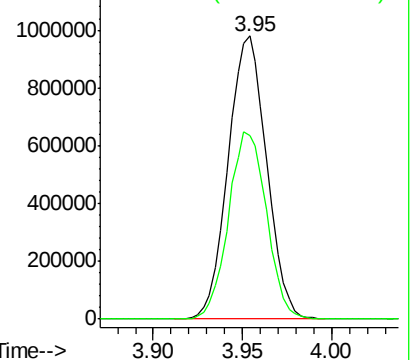
MMDadoda

9/26/2019 12:39:30 AM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.560 ppbv

RT: 4.50 min Scan# 532

Delta R.T. 0.00 min

Lab File: VL034199.D

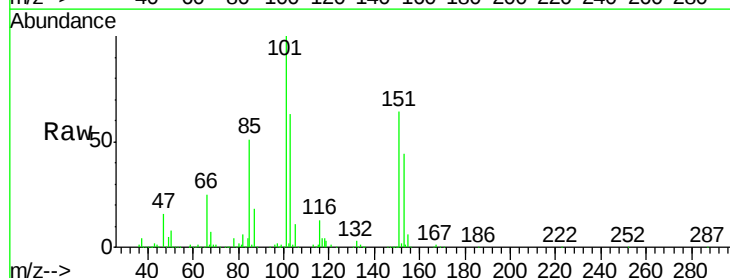
Acq: 24 Sep 2019 12:31

Tgt Ion:101 Resp: 959498

Ion Ratio Lower Upper

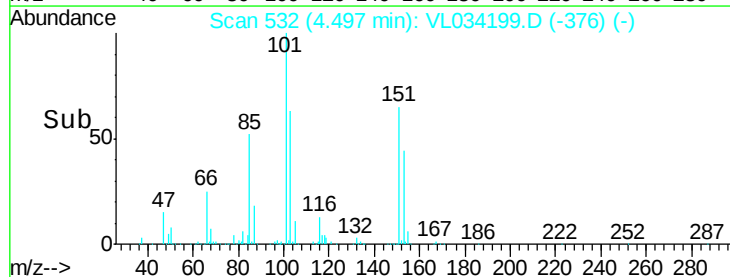
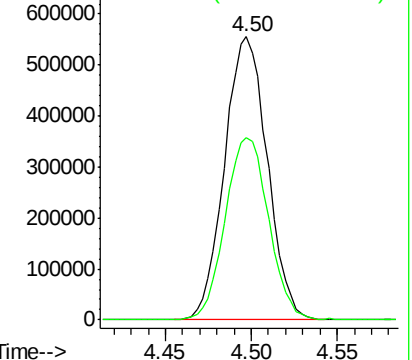
101 100

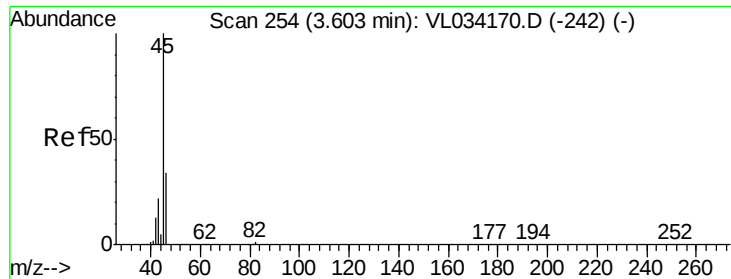
151 65.6 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





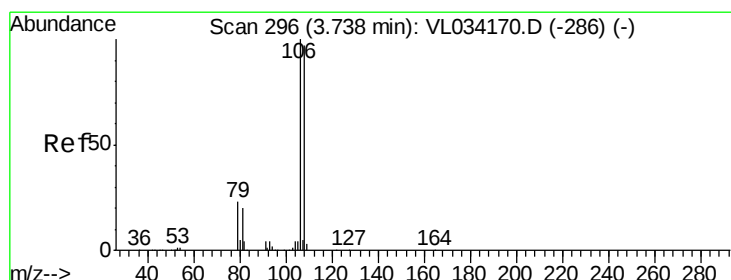
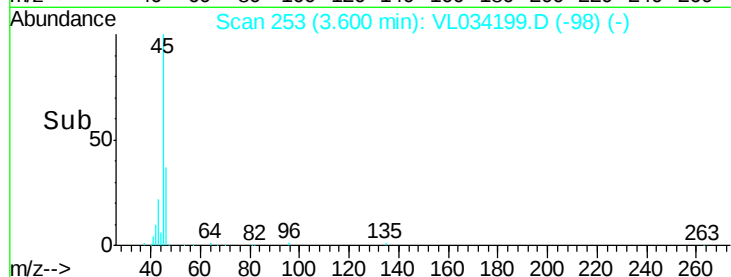
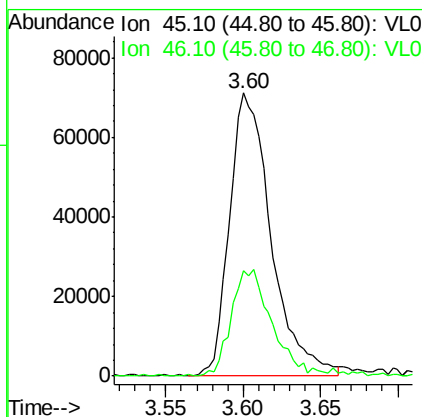
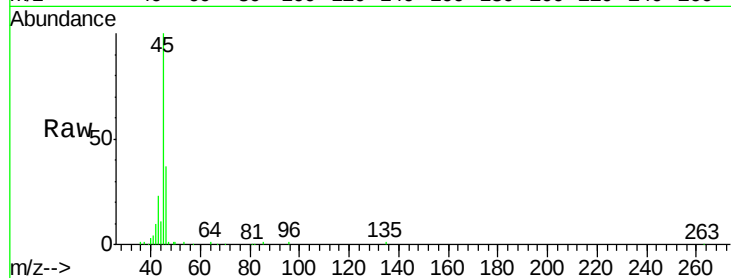
#13
Ethanol
Concen: 8.325 ppbv
RT: 3.60 min Scan# 253
Delta R.T. -0.00 min
Lab File: VL034199.D
Acq: 24 Sep 2019 12:31

Instrument :
MSVOA_L
ClientSampleId :
VL0924ABS01

Tot Ion	Ratio	Lower	Upper
45	100		
46	37.6	15.5	61.9

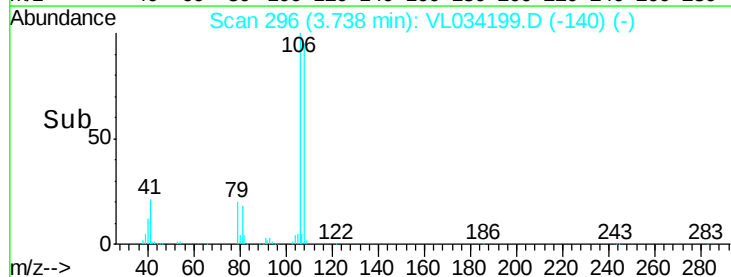
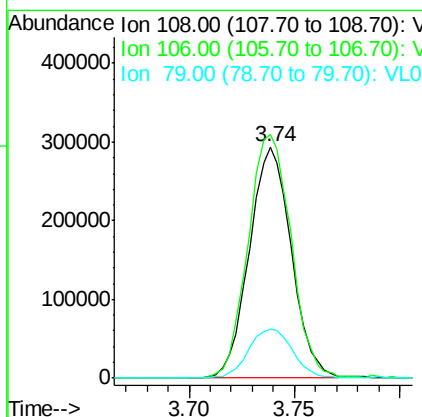
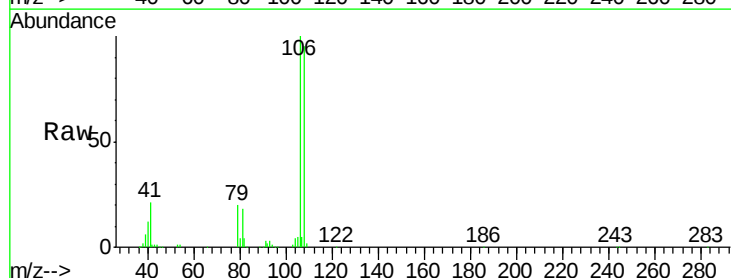
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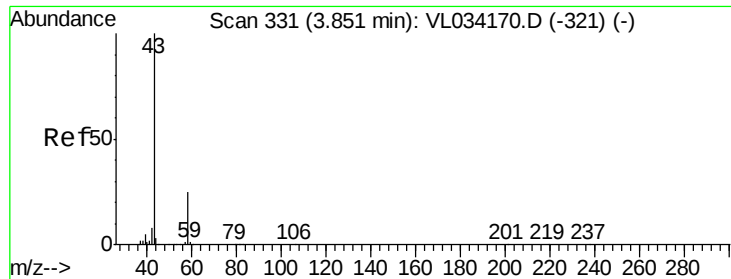
MMDadoda
9/26/2019 12:39:30 AM



#14
Bromoethene
Concen: 9.915 ppbv
RT: 3.74 min Scan# 296
Delta R.T. 0.00 min
Lab File: VL034199.D
Acq: 24 Sep 2019 12:31

Tgt Ion	Ratio	Lower	Upper
108	100		
106	108.8	86.2	129.4
79	22.8	18.6	27.8





#15

Acetone

Concen: 8.298 ppbv

RT: 3.85 min Scan# 331

Delta R.T. 0.00 min

Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

Instrument :

MSVOA_L

ClientSampleId :

VL0924ABS01

Tot Ion: 43 Resp: 1268545

Ion Ratio Lower Upper

43 100

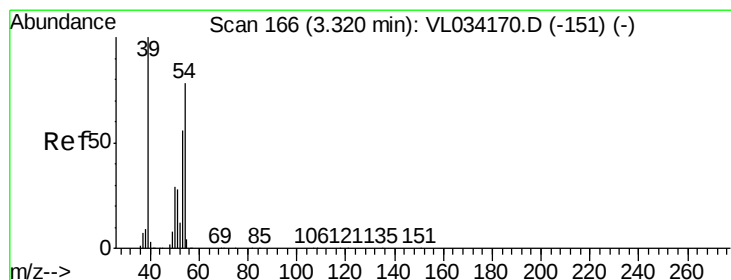
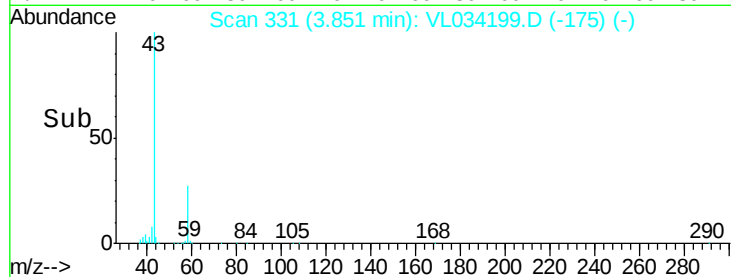
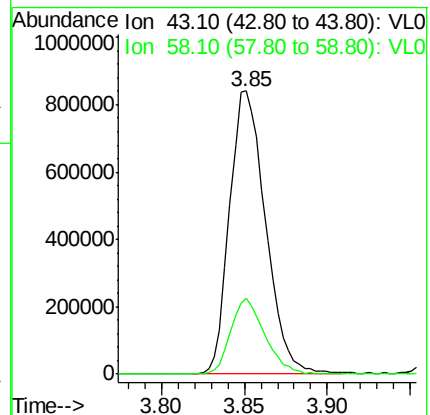
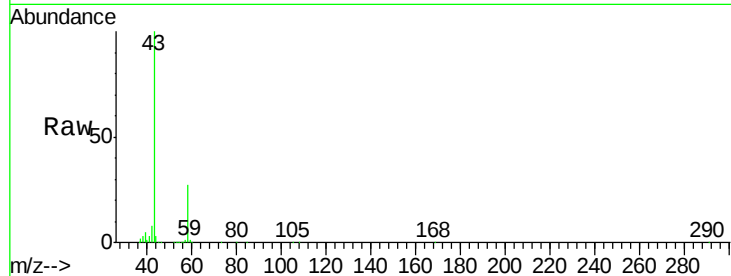
58 25.4 20.5 30.7

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#16

1,3-Butadiene

Concen: 10.009 ppbv

RT: 3.32 min Scan# 166

Delta R.T. -0.00 min

Lab File: VL034199.D

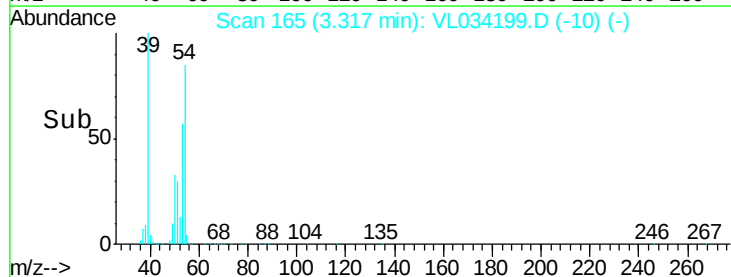
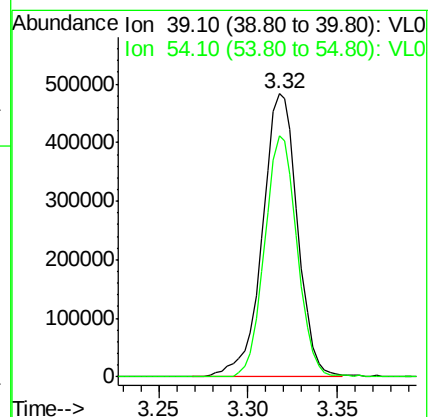
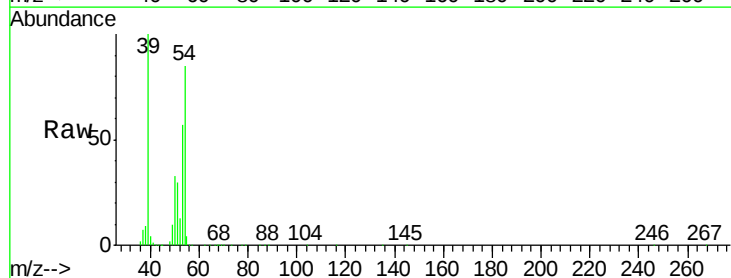
Acq: 24 Sep 2019 12:31

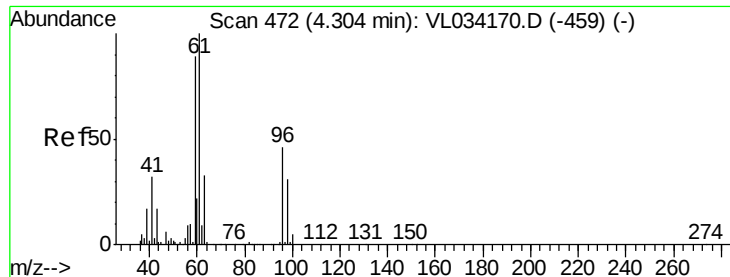
Tgt Ion: 39 Resp: 667793

Ion Ratio Lower Upper

39 100

54 78.8 63.4 95.0





#17

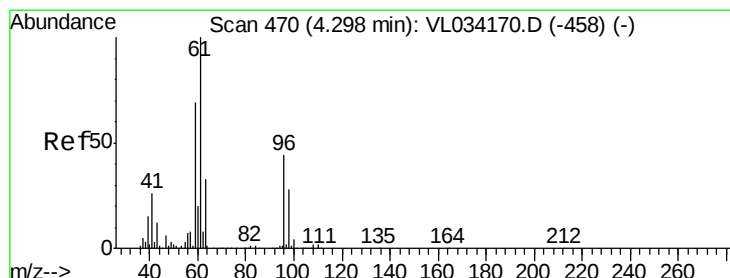
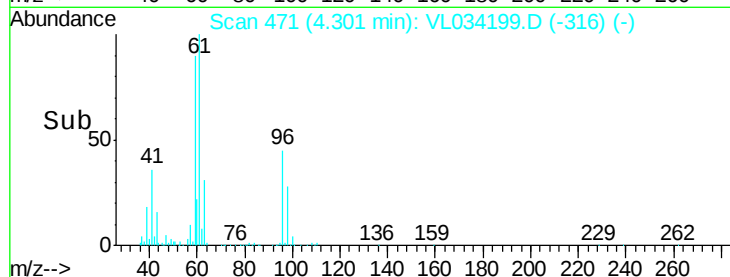
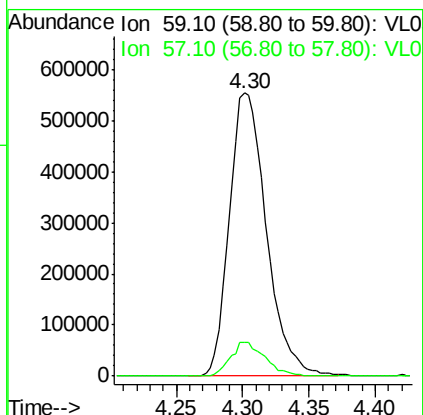
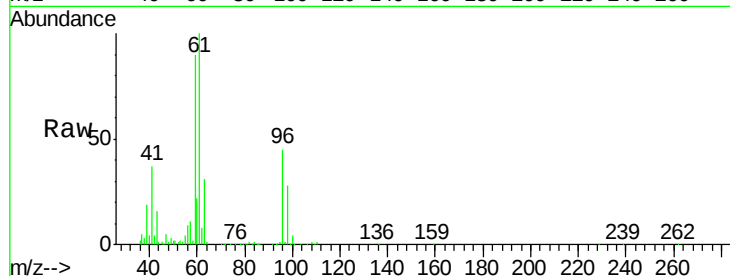
tert-Butyl alcohol
 Concen: 11.106 ppbv
 RT: 4.30 min Scan# 471
 Delta R.T. -0.00 min
 Lab File: VL034199.D
 Acq: 24 Sep 2019 12:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0924ABS01

Tot Ion: 59 Resp: 1075766
 Ion Ratio Lower Upper
 59 100
 57 11.2 8.7 13.1

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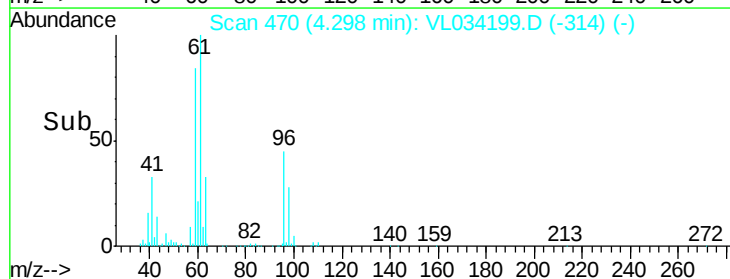
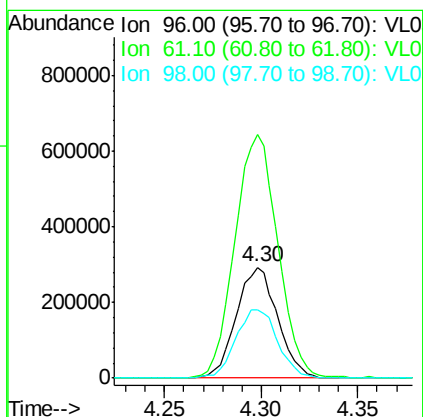
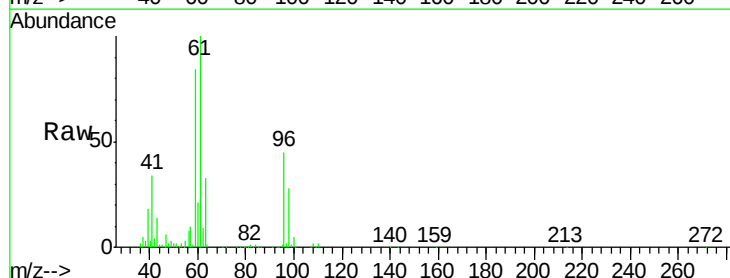
MMDadoda
 9/26/2019 12:39:30 AM

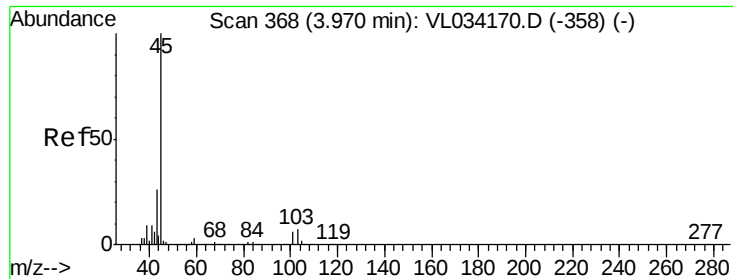


#18

1,1-Dichloroethene
 Concen: 9.903 ppbv
 RT: 4.30 min Scan# 470
 Delta R.T. 0.00 min
 Lab File: VL034199.D
 Acq: 24 Sep 2019 12:31

Tgt Ion: 96 Resp: 433496
 Ion Ratio Lower Upper
 96 100
 61 219.5 183.3 274.9
 98 61.3 51.4 77.2





#19

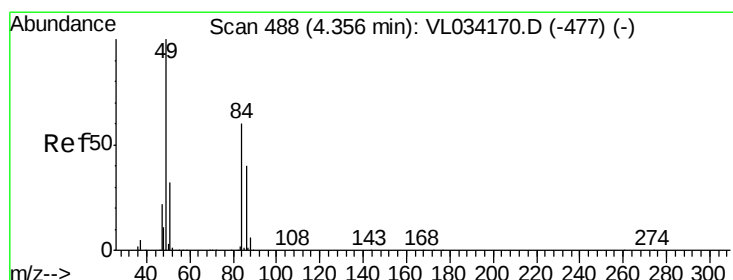
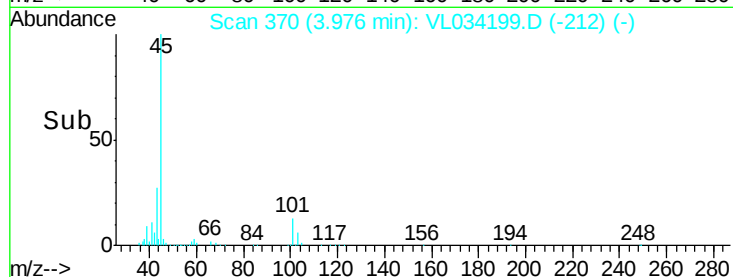
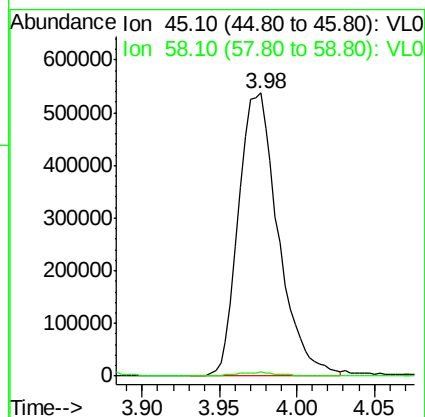
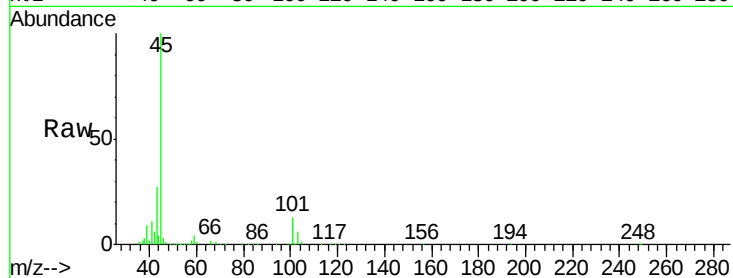
Isopropyl Alcohol
 Concen: 10.226 ppbv
 RT: 3.98 min Scan# 370
 Delta R.T. 0.01 min
 Lab File: VL034199.D
 Acq: 24 Sep 2019 12:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0924ABS01

Tot Ion	Ratio	Lower	Upper
45	100		
58	1.5	1.4	2.0

Manual Integrations
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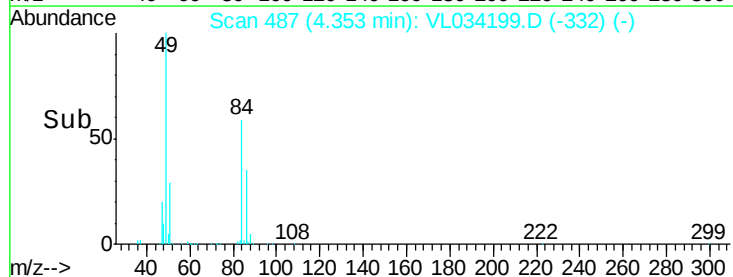
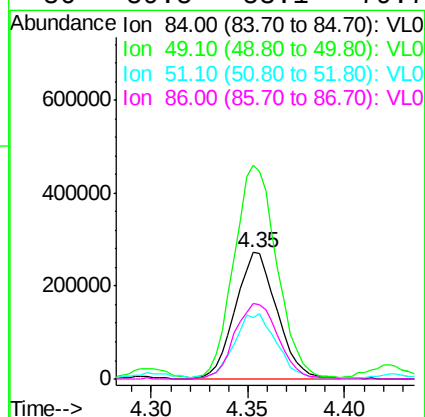
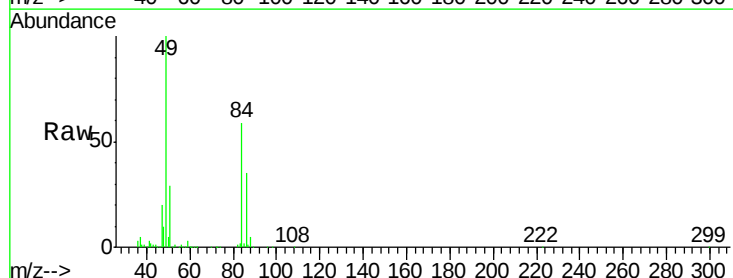
MMDadoda
 9/26/2019 12:39:30 AM

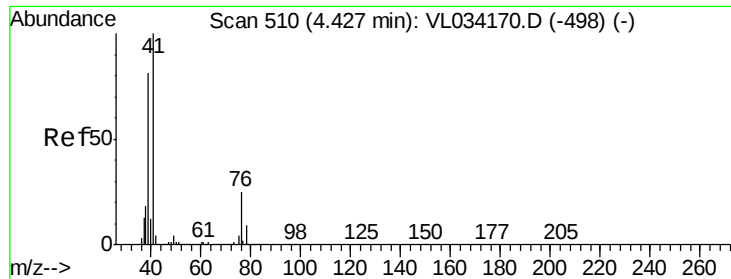


#20

Methylene Chloride
 Concen: 9.243 ppbv
 RT: 4.35 min Scan# 487
 Delta R.T. -0.00 min
 Lab File: VL034199.D
 Acq: 24 Sep 2019 12:31

Tgt Ion	Ratio	Lower	Upper
84	100		
49	168.5	133.8	200.8
51	48.6	43.6	65.4
86	59.5	53.1	79.7





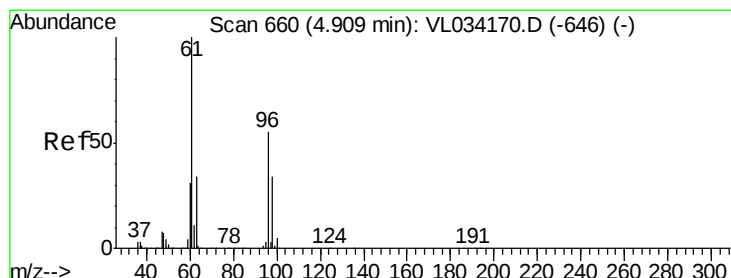
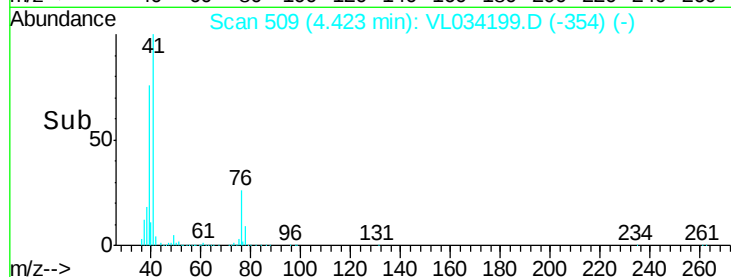
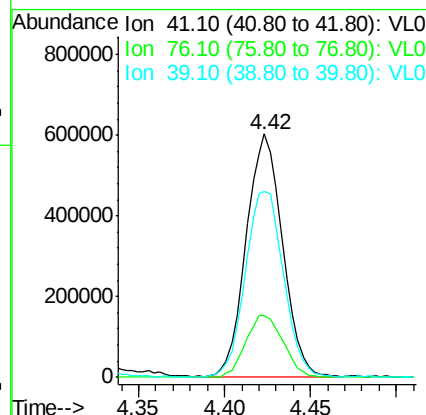
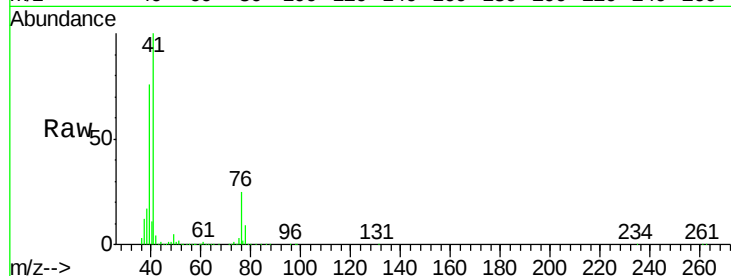
#21
Allvl Chloride
Concen: 10.207 ppbv
RT: 4.42 min Scan# 509
Delta R.T. -0.00 min
Lab File: VL034199.D
Acq: 24 Sep 2019 12:31

Instrument :
MSVOA_L
ClientSampleId :
VL0924ABS01

Tot Ion	Ratio	Lower	Upper
41	100		
76	26.6	21.8	32.6
39	80.4	64.8	97.2

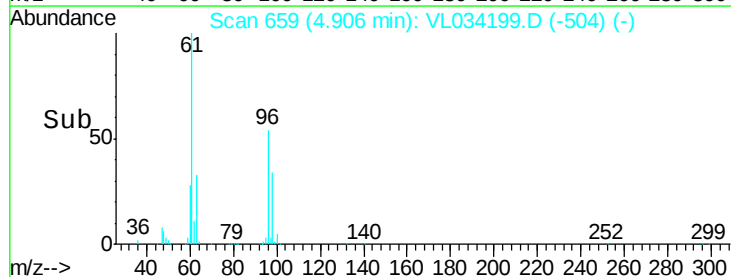
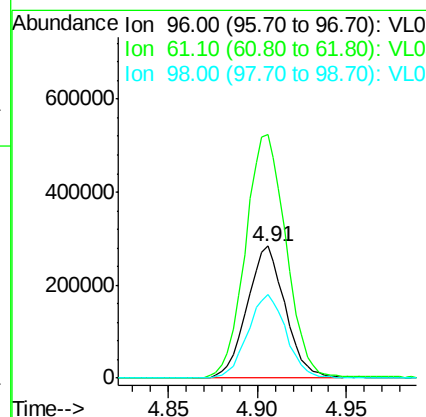
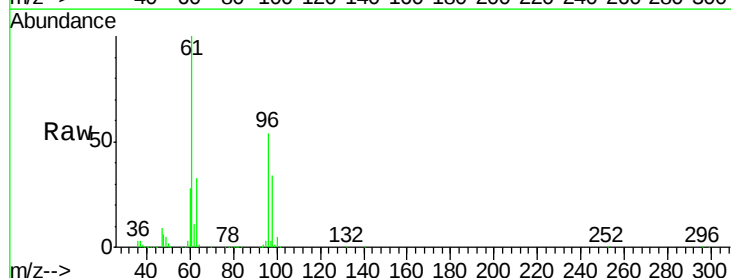
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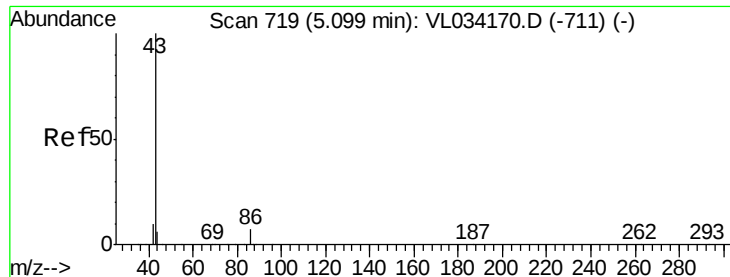
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 9.734 ppbv
RT: 4.91 min Scan# 659
Delta R.T. -0.00 min
Lab File: VL034199.D
Acq: 24 Sep 2019 12:31

Tgt Ion	Ratio	Lower	Upper
96	100		
61	184.3	145.5	218.3
98	63.2	49.9	74.9





#23

Vinyl Acetate

Concen: 9.629 ppbv

RT: 5.10 min Scan# 718

Delta R.T. -0.00 min

Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

Instrument :

MSVOA_L

ClientSampleId :

VL0924ABS01

Tot Ion: 43 Resp: 2169194

Ion Ratio Lower Upper

43 100

86 6.5 5.1 7.7

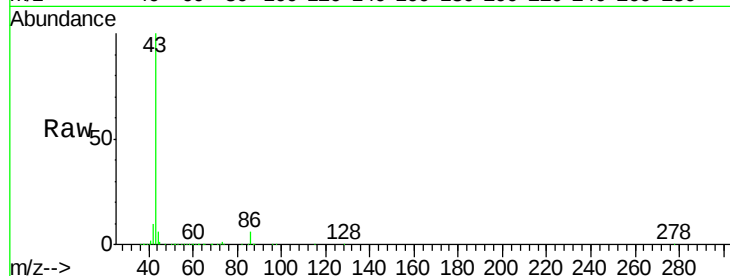
42 9.9 8.6 12.8

44 5.7 4.7 7.1

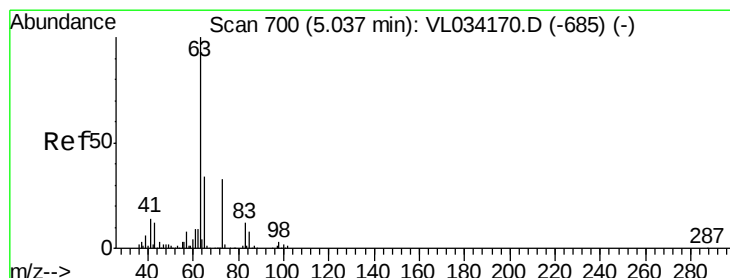
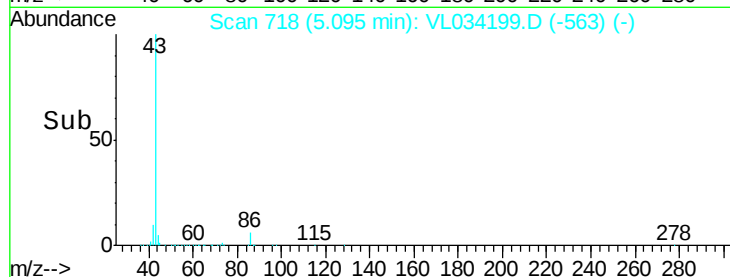
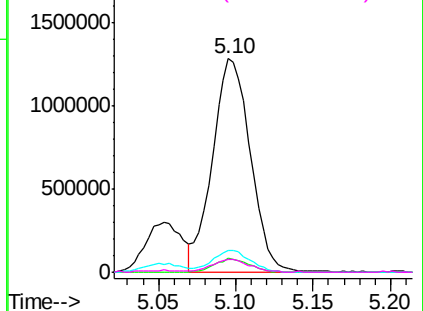
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Abundance Ion 43.10 (42.80 to 43.80): VL0
2000000
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.285 ppbv

RT: 5.03 min Scan# 699

Delta R.T. -0.00 min

Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

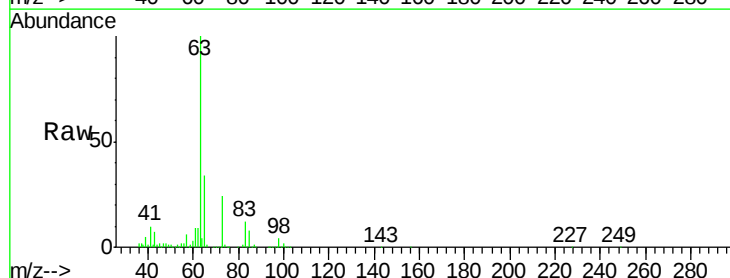
Tgt Ion: 63 Resp: 1408460

Ion Ratio Lower Upper

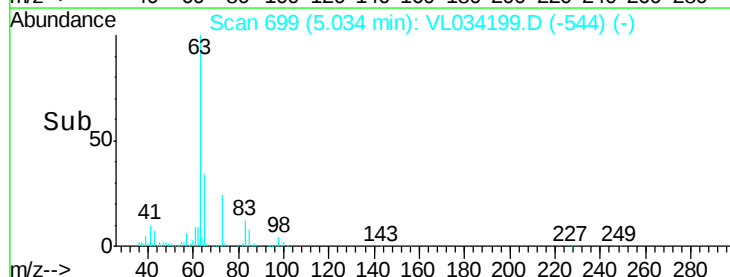
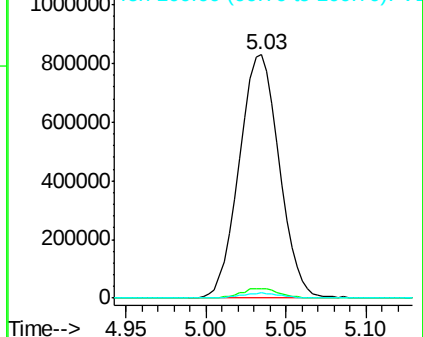
63 100

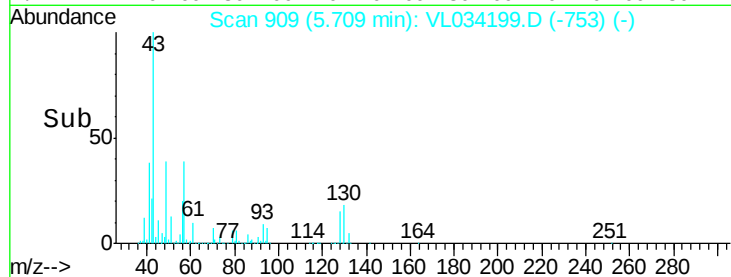
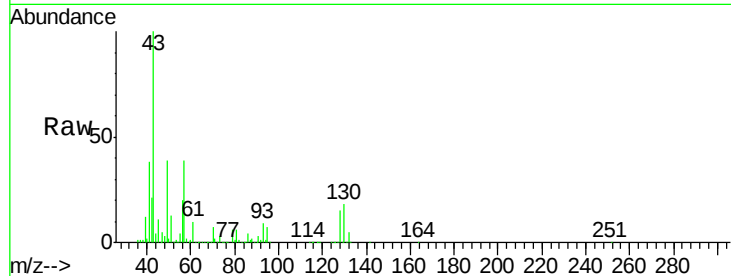
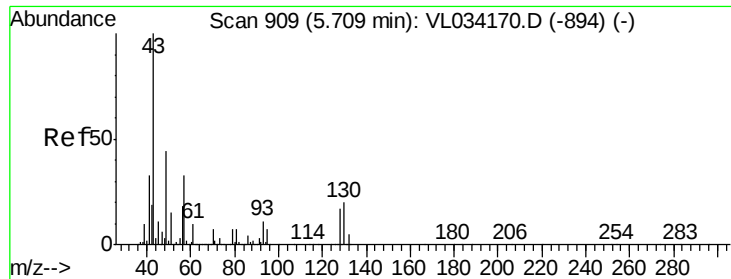
98 3.7 1.8 5.3

100 2.4 1.0 3.0



Abundance Ion 63.10 (62.80 to 63.80): VL0
1000000
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.148 ppbv

RT: 5.71 min Scan# 909

Delta R.T. 0.00 min

Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

Tot Ion: 43 Resp: 2644619

Ion Ratio Lower Upper

43 100

45 10.5 8.4 12.6

61 8.9 7.2 10.8

70 6.6 5.3 7.9

Instrument :

MSVOA_L

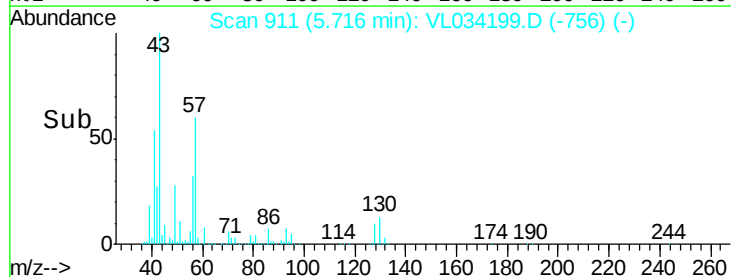
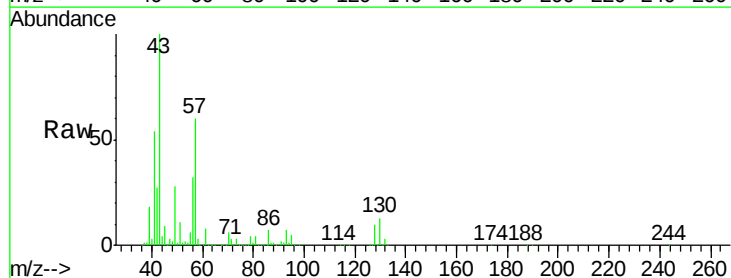
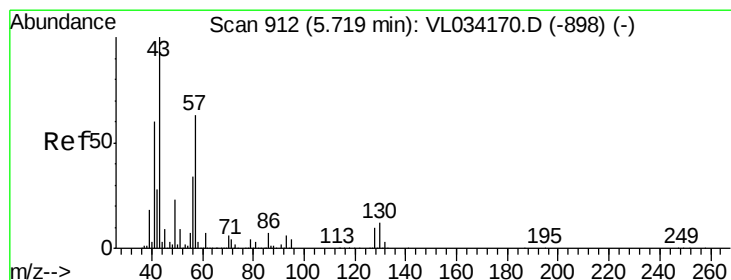
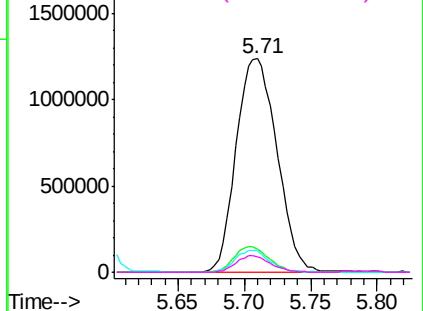
ClientSampleId :

VL0924ABS01

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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: 9.380 ppbv

RT: 5.72 min Scan# 911

Delta R.T. -0.00 min

Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

Tgt Ion: 57 Resp: 1128036

Ion Ratio Lower Upper

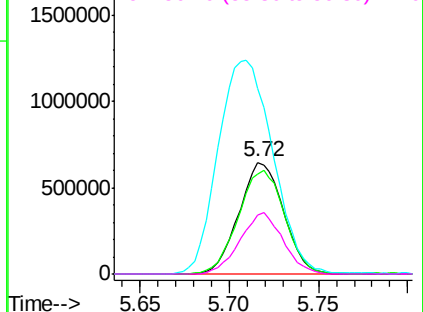
57 100

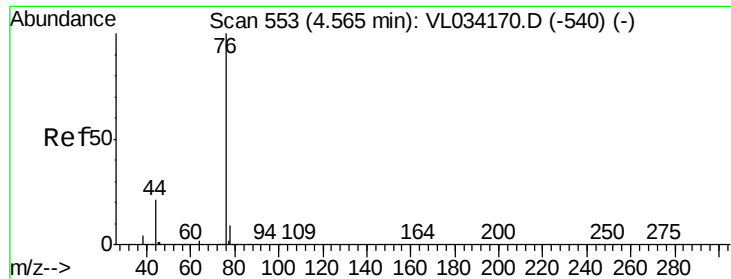
41 97.2 78.5 117.7

43 235.7 189.5 284.3

56 53.4 43.2 64.8

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: 10.748 ppbv

RT: 4.56 min Scan# 553

Delta R.T. 0.00 min

Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

Instrument :

MSVOA_L

ClientSampleId :

VL0924ABS01

Tot Ion: 76 Resp: 1192044

Ion Ratio Lower Upper

76 100

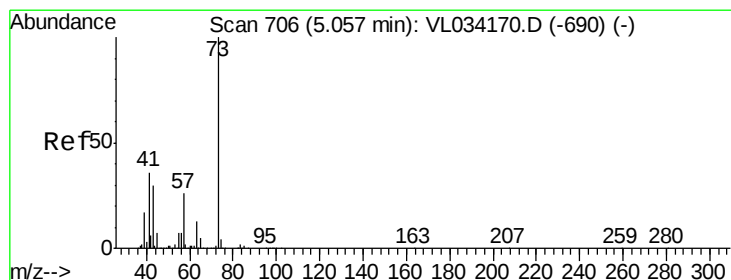
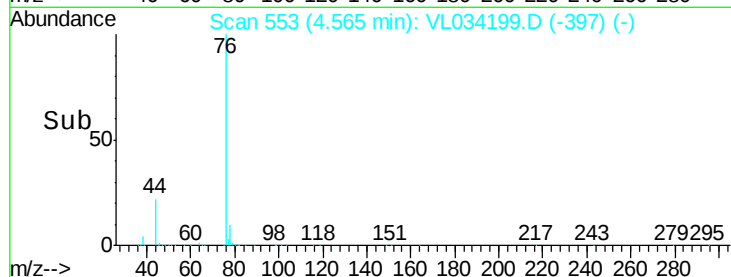
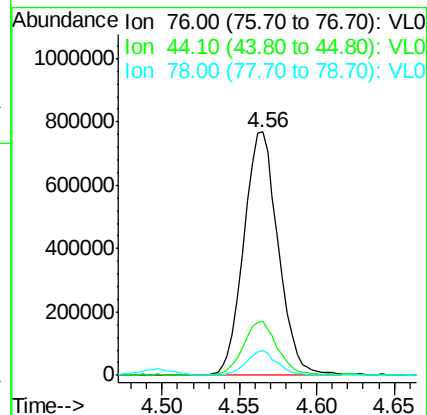
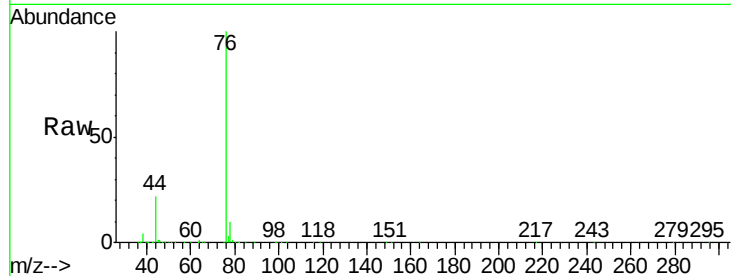
44 21.9 17.6 26.4

78 9.1 7.6 11.4

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#28

Methyl tert-Butyl Ether

Concen: 9.523 ppbv

RT: 5.05 min Scan# 705

Delta R.T. -0.00 min

Lab File: VL034199.D

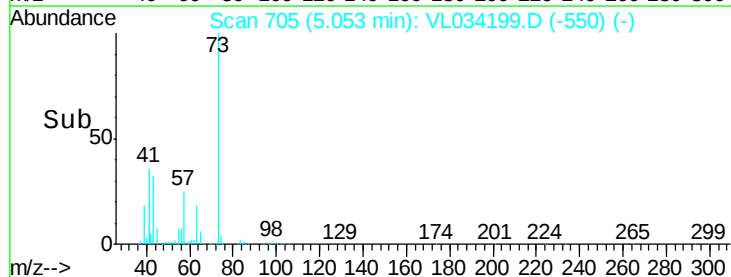
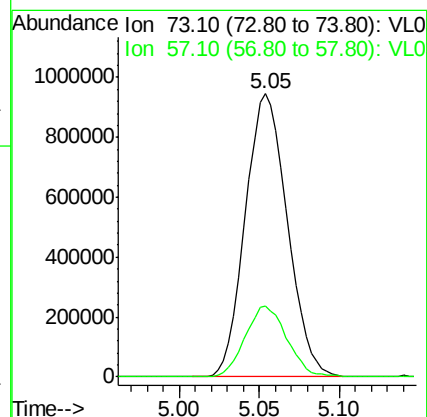
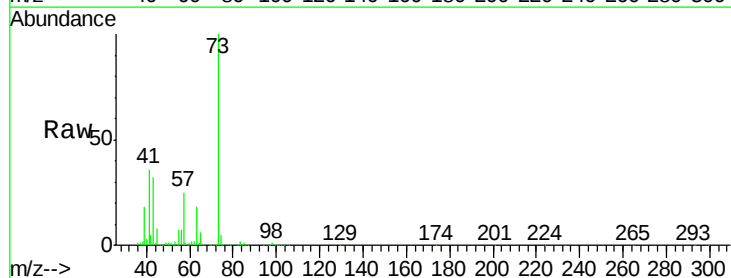
Acq: 24 Sep 2019 12:31

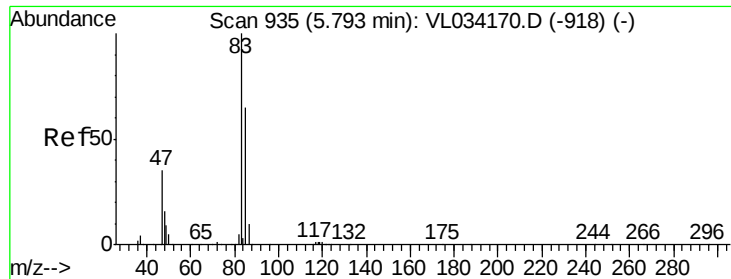
Tgt Ion: 73 Resp: 1700823

Ion Ratio Lower Upper

73 100

57 25.3 20.2 30.2





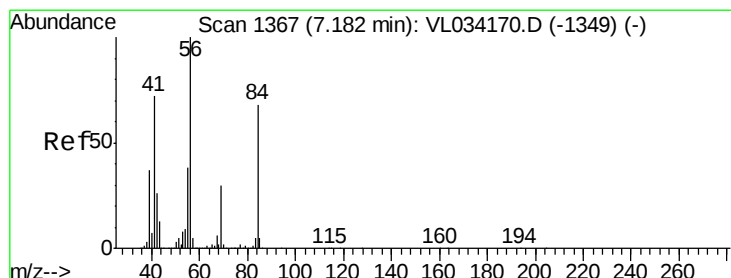
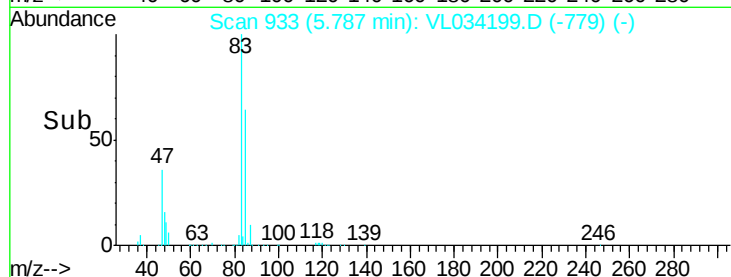
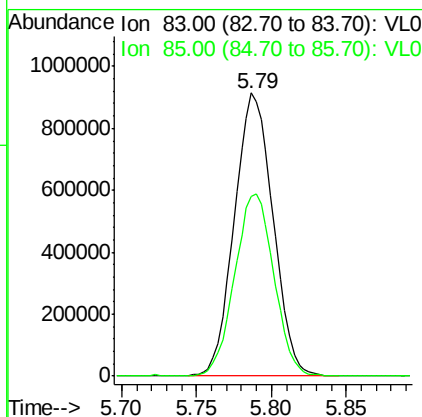
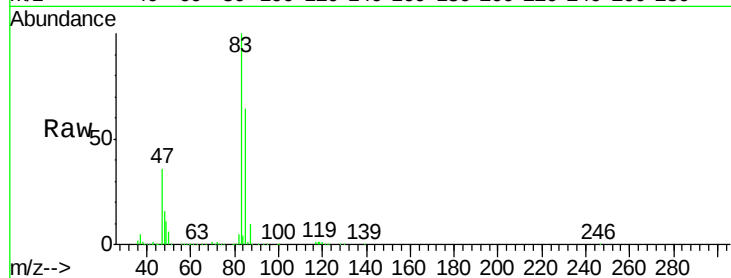
#29
Chloroform
Concen: 9.568 ppbv
RT: 5.79 min Scan# 933
Delta R.T. -0.01 min
Lab File: VL034199.D
Acq: 24 Sep 2019 12:31

Instrument :
MSVOA_L
ClientSampleId :
VL0924ABS01

Tot Ion: 83 Resp: 1644212
Ion Ratio Lower Upper
83 100
85 63.7 52.3 78.5

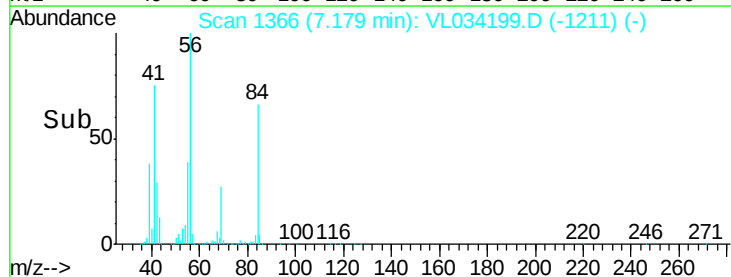
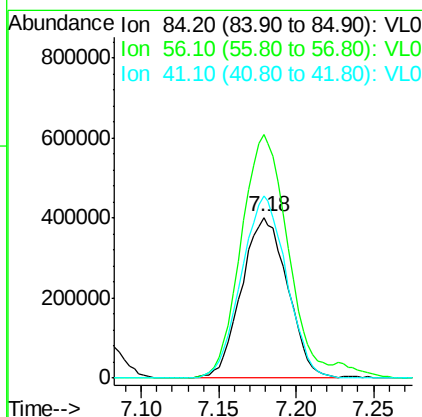
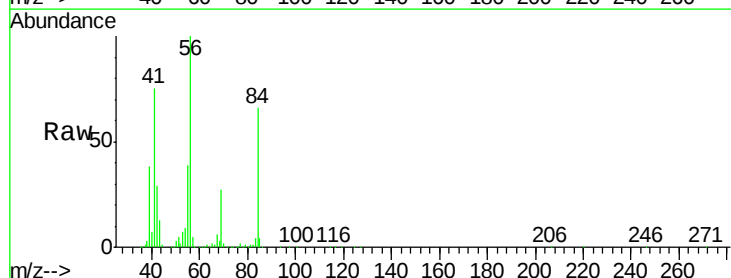
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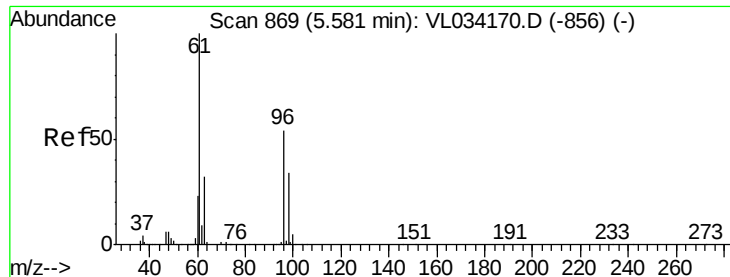
MMDadoda
9/26/2019 12:39:30 AM



#30
Cyclohexane
Concen: 9.546 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. -0.00 min
Lab File: VL034199.D
Acq: 24 Sep 2019 12:31

Tgt Ion: 84 Resp: 828797
Ion Ratio Lower Upper
84 100
56 158.9 126.2 189.2
41 112.4 85.8 128.8





#31

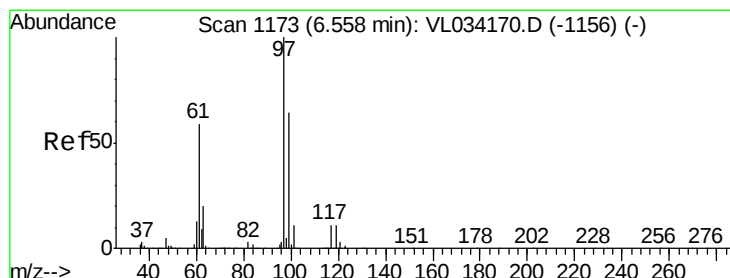
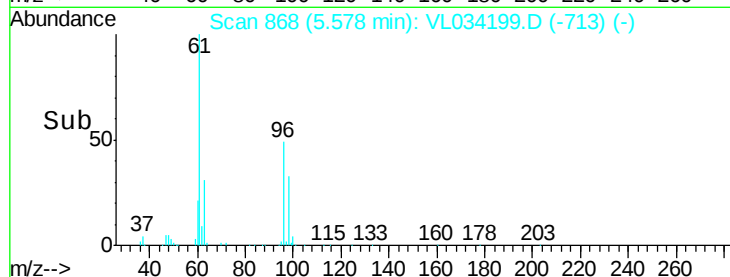
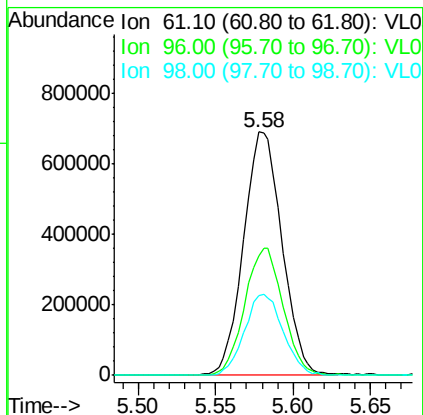
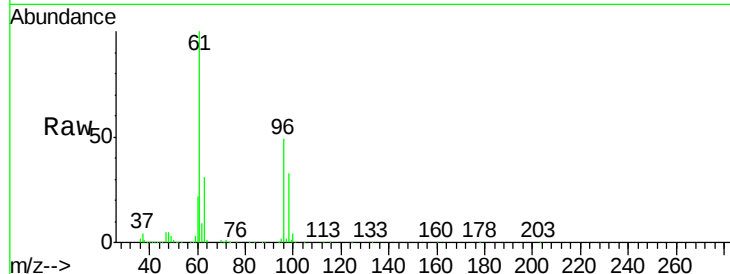
cis-1,2-Dichloroethene
 Concen: 9.747 ppbv
 RT: 5.58 min Scan# 868
 Delta R.T. -0.00 min
 Lab File: VL034199.D
 Acq: 24 Sep 2019 12:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0924ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	48.8	43.0	64.4
98	32.8	27.2	40.8

Manual Integrations
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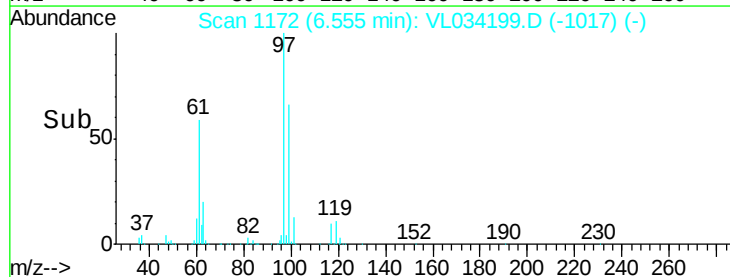
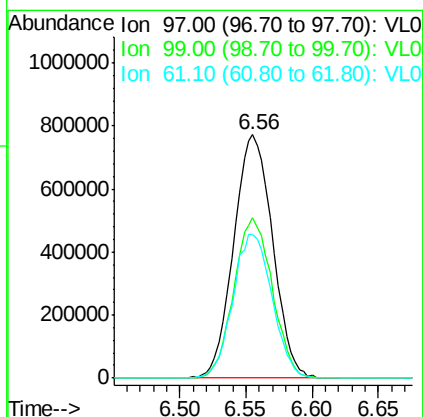
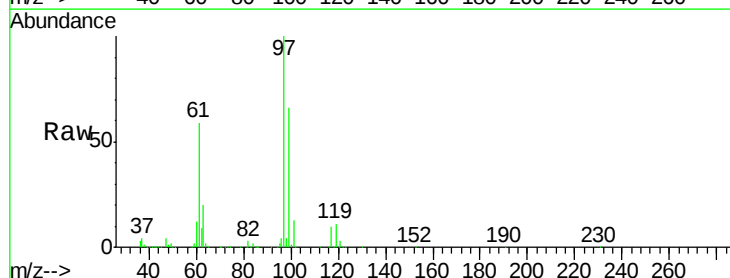
MMDadoda
 9/26/2019 12:39:30 AM

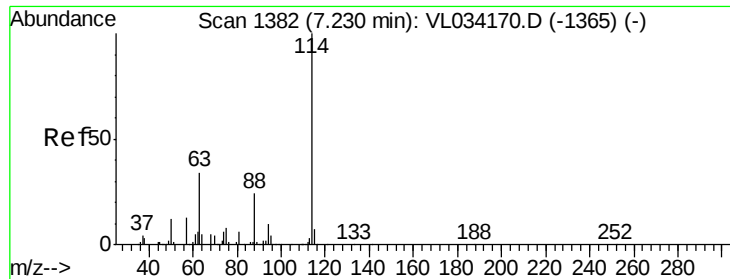


#32

1,1,1-Trichloroethane
 Concen: 9.470 ppbv
 RT: 6.56 min Scan# 1172
 Delta R.T. -0.00 min
 Lab File: VL034199.D
 Acq: 24 Sep 2019 12:31

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.2	51.4	77.2
61	59.9	48.4	72.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.23 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

Instrument :

MSVOA_L

ClientSampleId :

VL0924ABS01

Tot Ion:114 Resp: 1948821

Ion Ratio Lower Upper

114 100

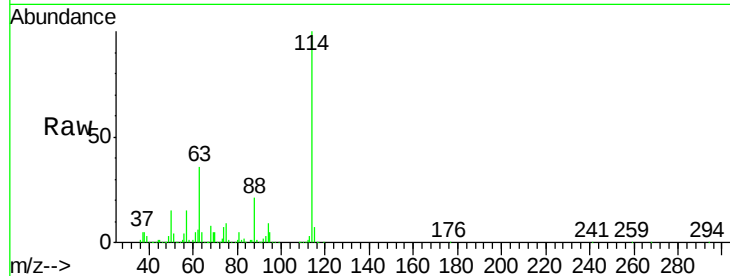
63 35.0 27.8 41.6

88 21.4 17.1 25.7

Manual Integrations
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MMDadoda

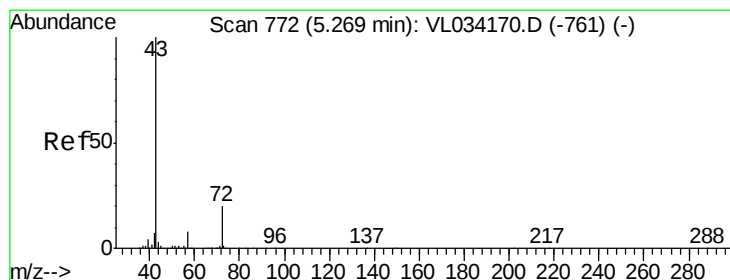
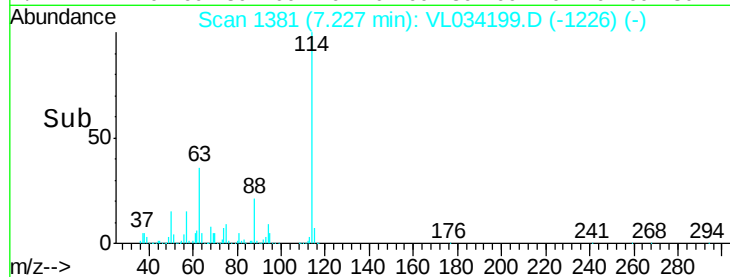
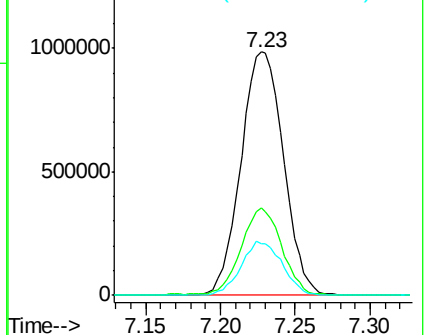
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Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 9.250 ppbv

RT: 5.27 min Scan# 772

Delta R.T. 0.00 min

Lab File: VL034199.D

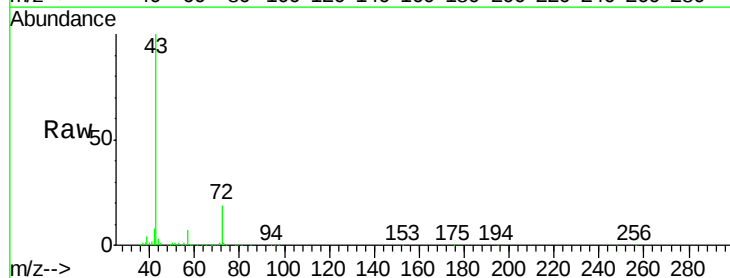
Acq: 24 Sep 2019 12:31

Tgt Ion: 43 Resp: 1840715

Ion Ratio Lower Upper

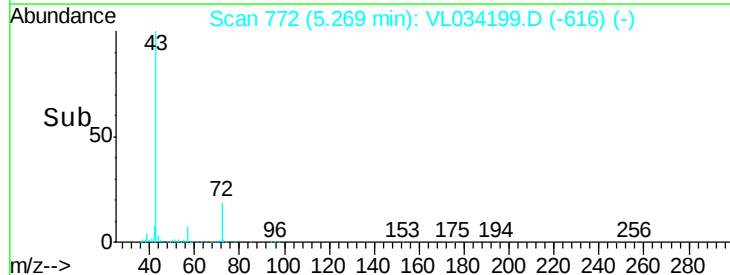
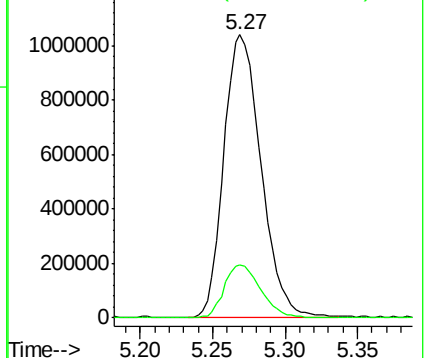
43 100

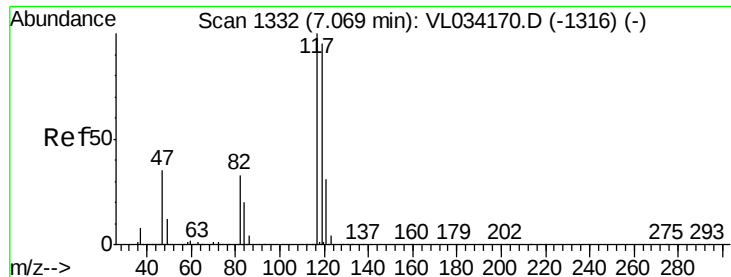
72 18.6 15.0 22.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 9.650 ppbv

RT: 7.07 min Scan# 1331

Delta R.T. -0.00 min

Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

Instrument :

MSVOA_L

ClientSampleId :

VL0924ABS01

Tot Ion:117 Resp: 1562456

Ion Ratio Lower Upper

117 100

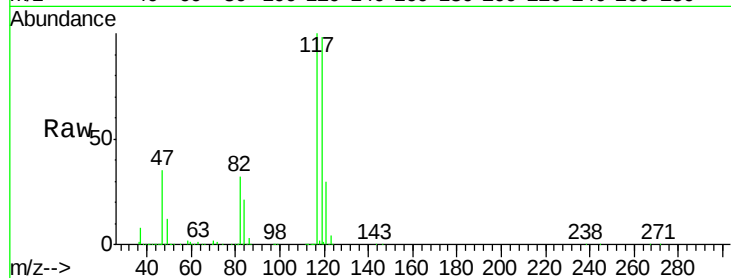
119 98.4 75.8 113.6

121 30.1 25.0 37.6

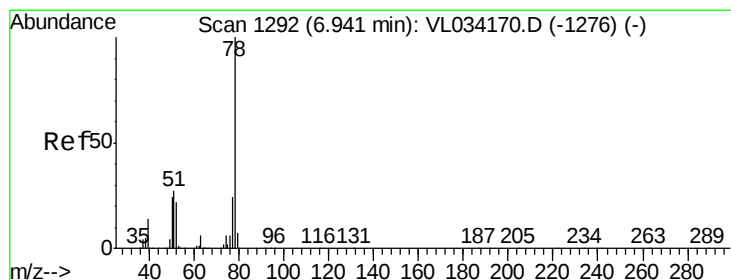
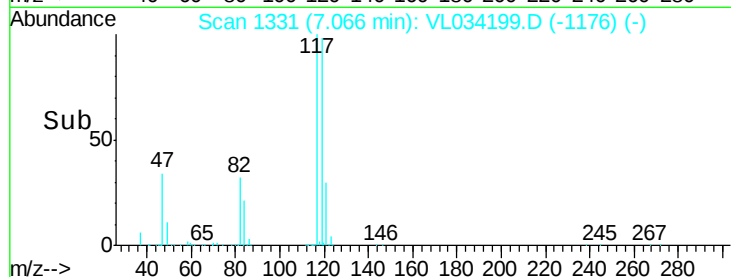
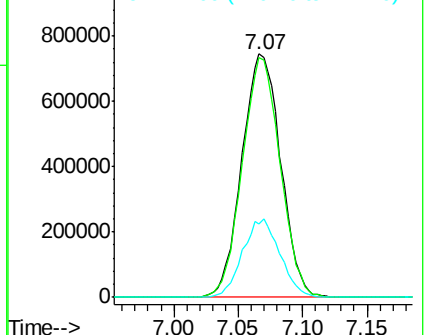
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Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.404 ppbv

RT: 6.94 min Scan# 1291

Delta R.T. -0.00 min

Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

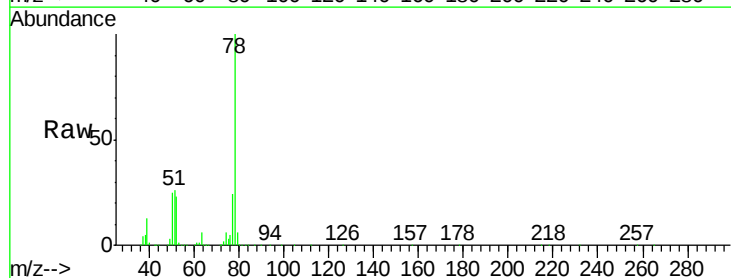
Tgt Ion: 78 Resp: 2023988

Ion Ratio Lower Upper

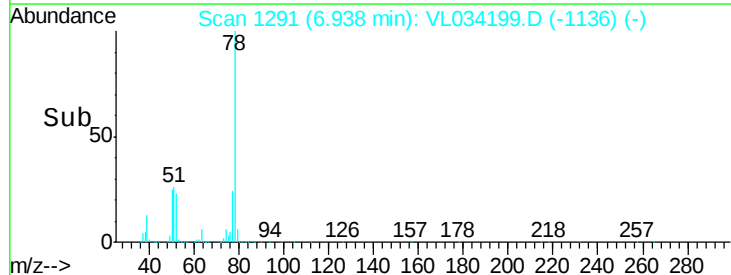
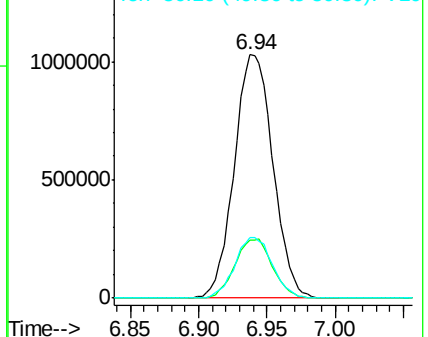
78 100

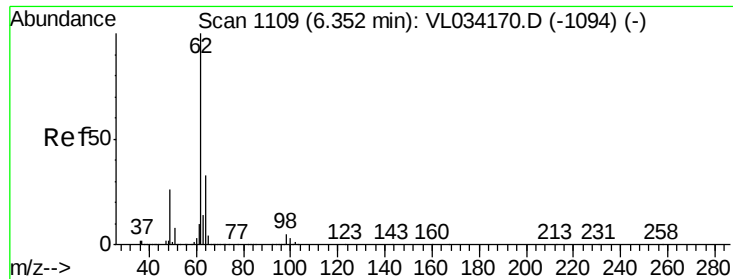
77 23.7 19.0 28.4

50 25.0 18.9 28.3



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 9.704 ppbv

RT: 6.35 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

Instrument :

MSVOA_L

ClientSampleId :

VL0924ABS01

Tot Ion: 62 Resp: 1485650

Ion Ratio Lower Upper

62 100

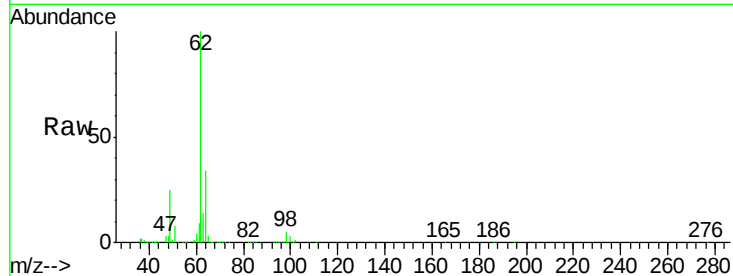
98 4.5 3.8 5.8

Manual Integrations

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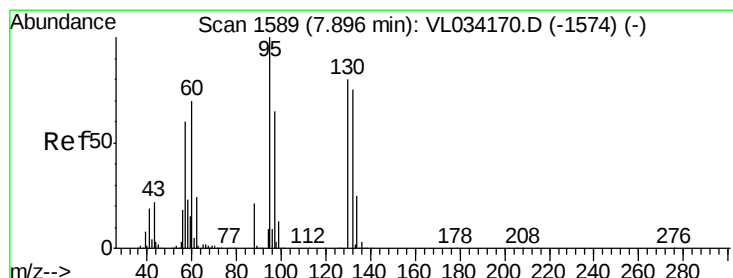
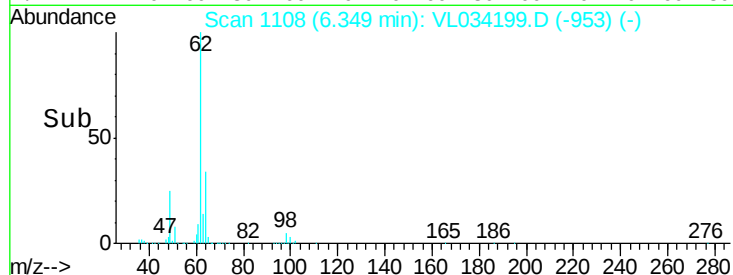
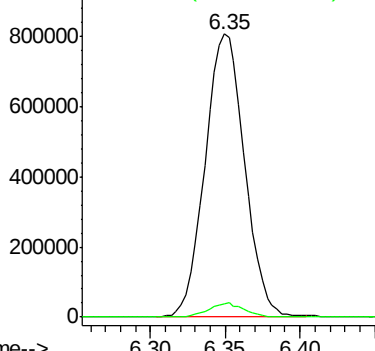
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 8.859 ppbv

RT: 7.89 min Scan# 1587

Delta R.T. -0.01 min

Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

Tgt Ion:130 Resp: 681278

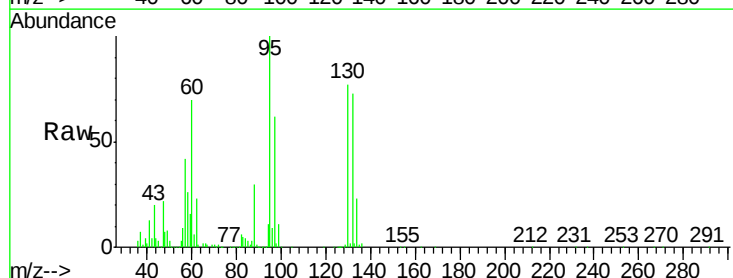
Ion Ratio Lower Upper

130 100

95 130.4 99.8 149.6

132 95.5 75.2 112.8

97 81.0 65.0 97.4

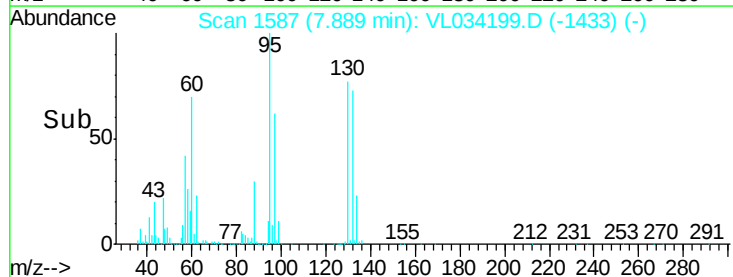
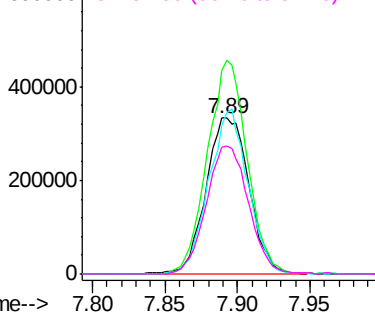


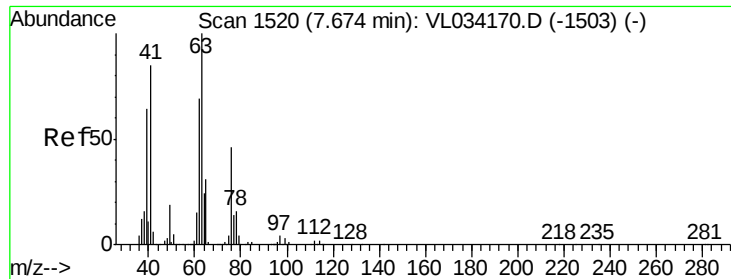
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 9.293 ppbv

RT: 7.67 min Scan# 1518

Delta R.T. -0.01 min

Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

Instrument :

MSVOA_L

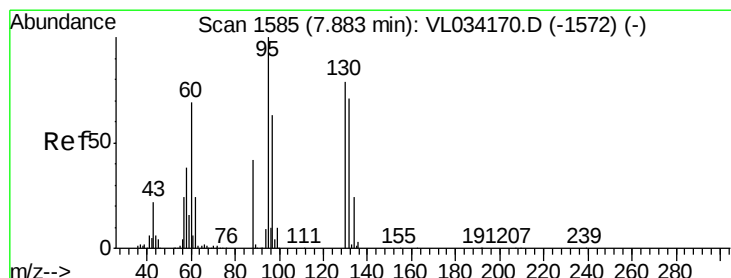
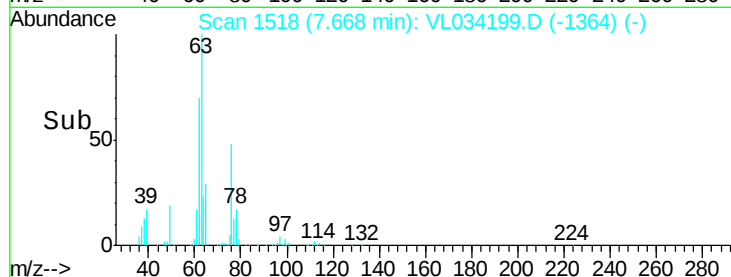
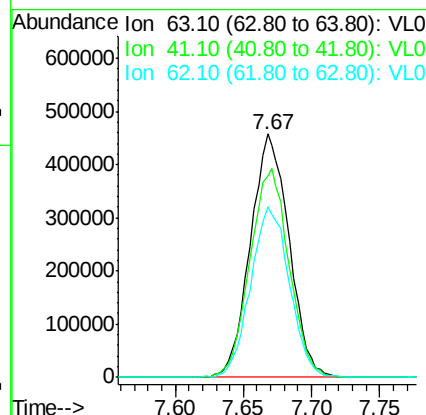
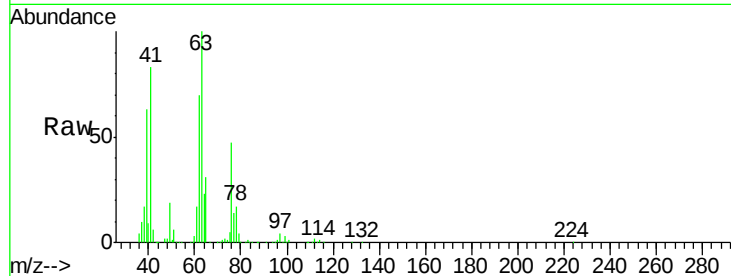
ClientSampleId :

VL0924ABS01

Tot Ion:	63	Resp:	898726
Ion Ratio	Lower	Upper	
63	100		
41	82.4	68.4	102.6
62	69.9	55.4	83.2

Manual Integrations
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#40

1,4-Dioxane

Concen: 9.533 ppbv

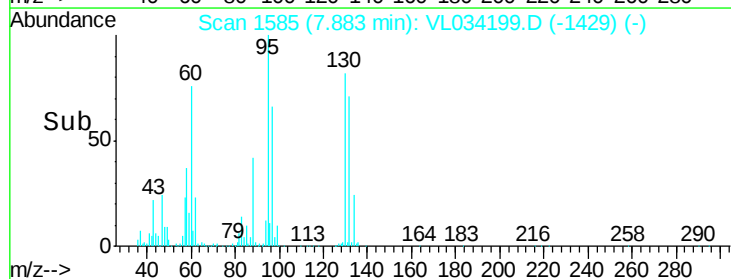
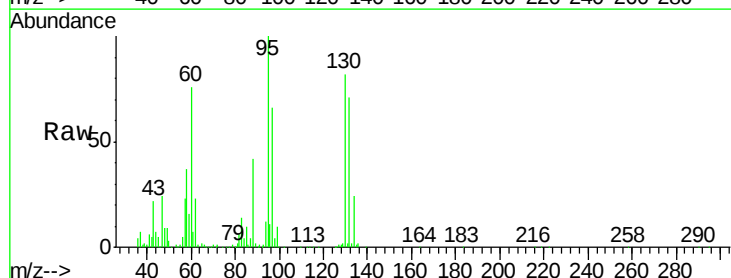
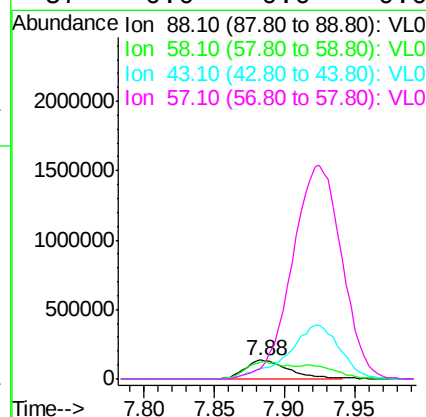
RT: 7.88 min Scan# 1585

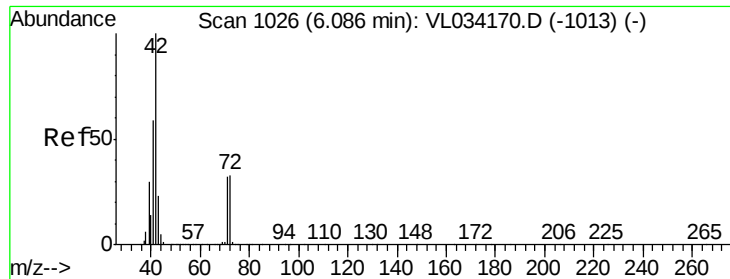
Delta R.T. 0.00 min

Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

Tgt Ion:	88	Resp:	298330
Ion Ratio	Lower	Upper	
88	100		
58	152.5	131.8	197.6
43	0.0	0.0	0.0
57	0.0	0.0	0.0





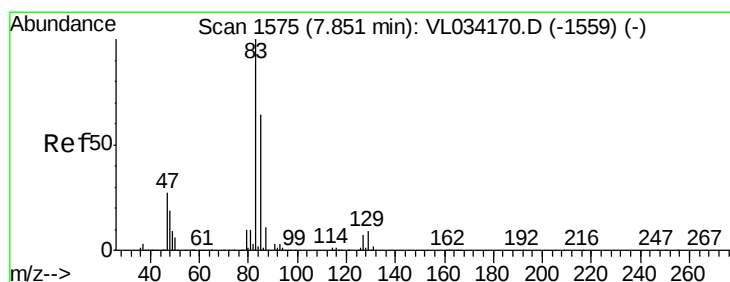
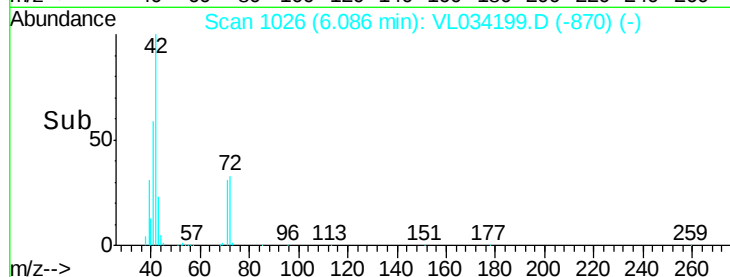
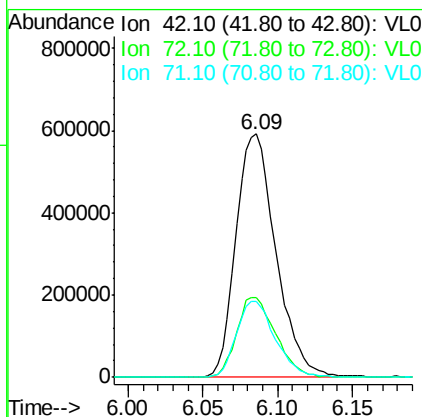
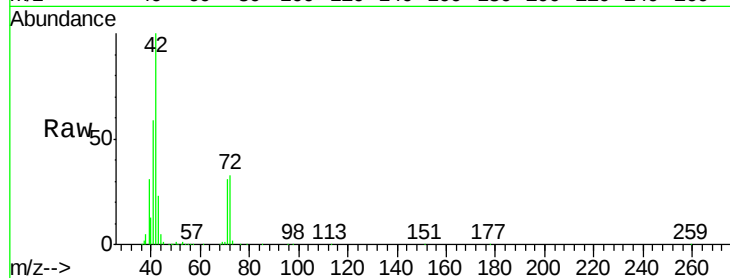
#41
Tetrahydrofuran
Concen: 9.823 ppbv
RT: 6.09 min Scan# 1026
Delta R.T. 0.00 min
Lab File: VL034199.D
Acq: 24 Sep 2019 12:31

Instrument :
MSVOA_L
ClientSampleId :
VL0924ABS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	32.3	26.6	40.0
71	30.8	25.1	37.7

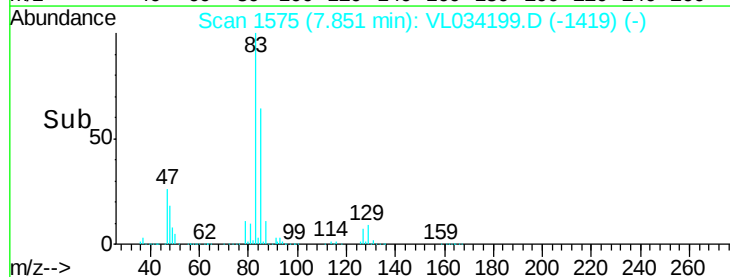
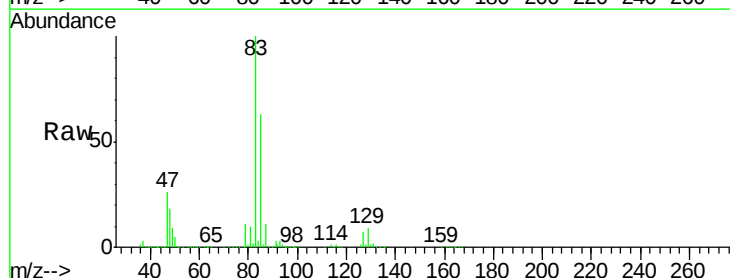
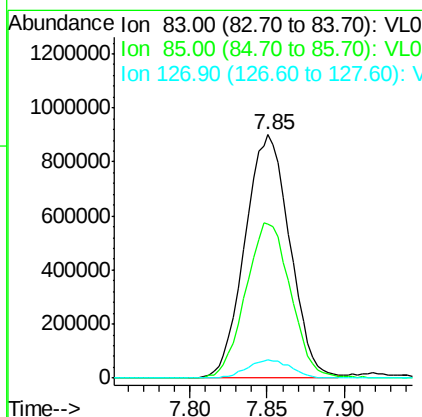
Manual Integrations
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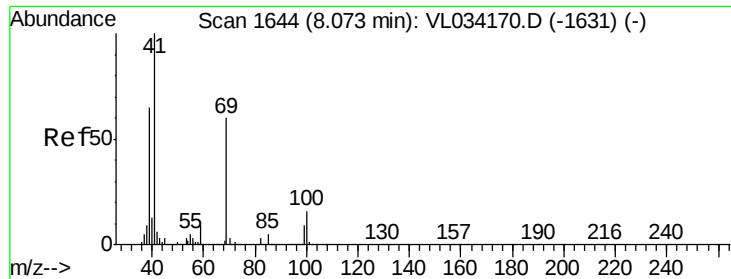
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#42
Bromodichloromethane
Concen: 9.910 ppbv
RT: 7.85 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VL034199.D
Acq: 24 Sep 2019 12:31

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.4	51.4	77.0
127	7.3	5.5	8.3





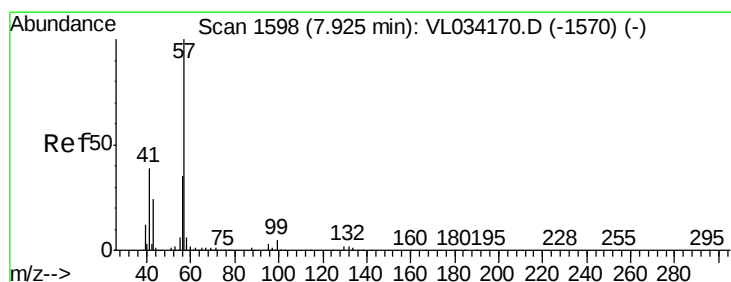
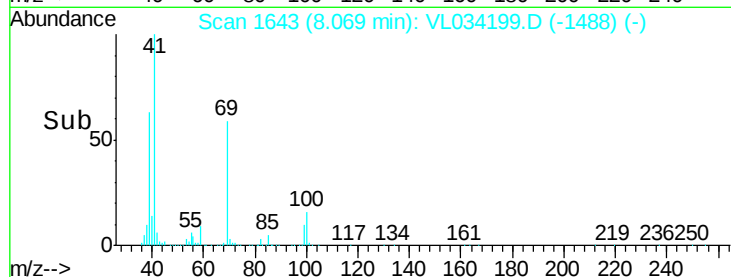
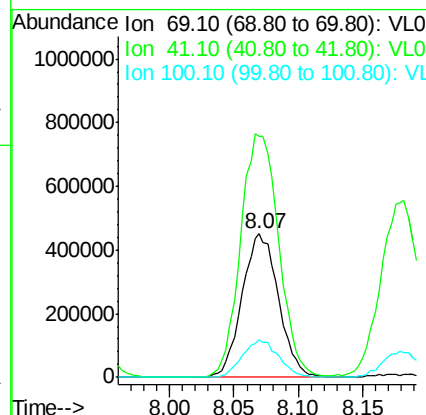
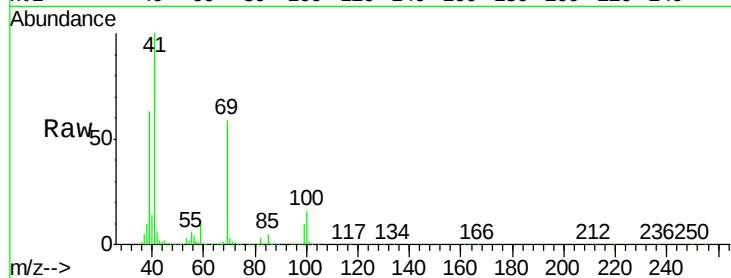
#43
Methvl Methacrilate
Concen: 9.966 ppbv
RT: 8.07 min Scan# 1643
Delta R.T. -0.00 min
Lab File: VL034199.D
Acq: 24 Sep 2019 12:31

Instrument :
MSVOA_L
ClientSampleId :
VL0924ABS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
69	100		886148		
41	177.6	140.4	210.6		
100	26.1	21.9	32.9		

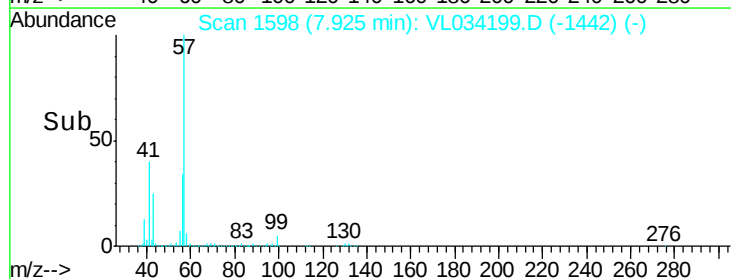
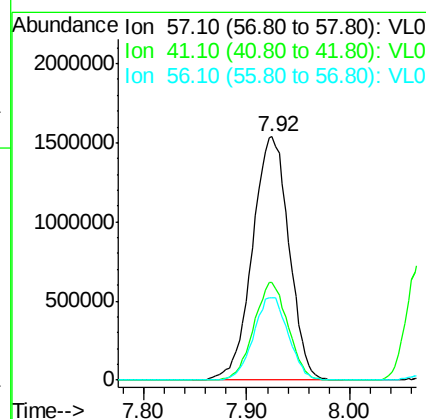
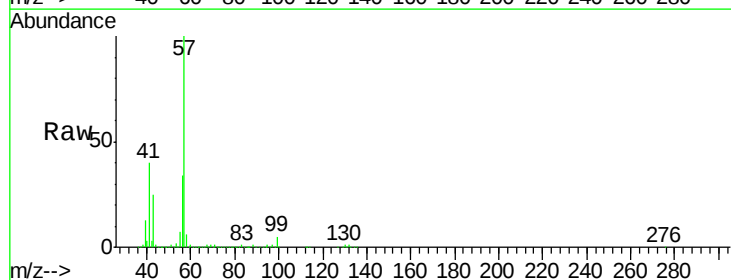
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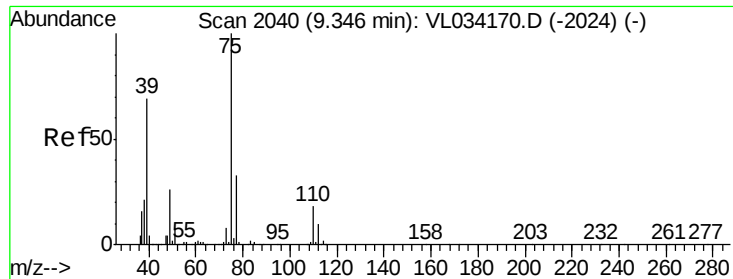
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#44
2,2,4-Trimethylpentane
Concen: 9.138 ppbv
RT: 7.92 min Scan# 1598
Delta R.T. 0.00 min
Lab File: VL034199.D
Acq: 24 Sep 2019 12:31

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100		3786417		
41	37.6	29.8	44.6		
56	32.2	25.9	38.9		





#45

t-1,3-Dichloropropene

Concen: 11.106 ppbv

RT: 9.35 min Scan# 2040

Delta R.T. 0.00 min

Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

Tot Ion: 75 Resp: 1167573

Ion Ratio Lower Upper

75 100

77 30.2 26.2 39.2

Instrument :

MSVOA_L

ClientSampleId :

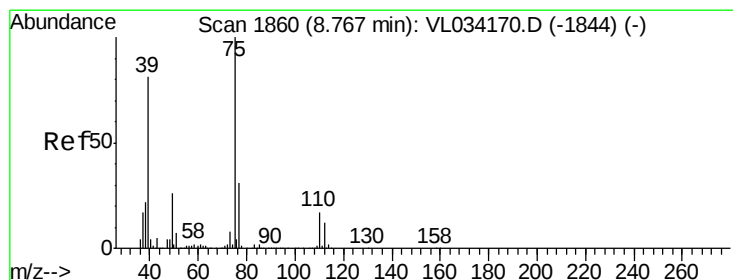
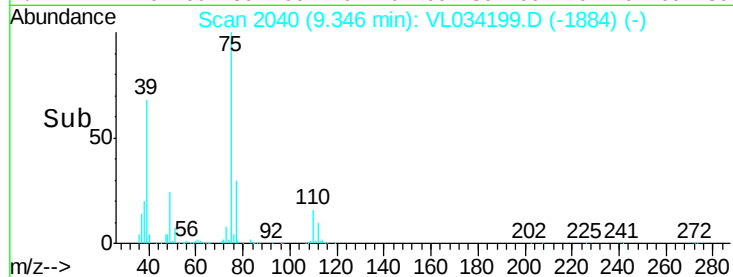
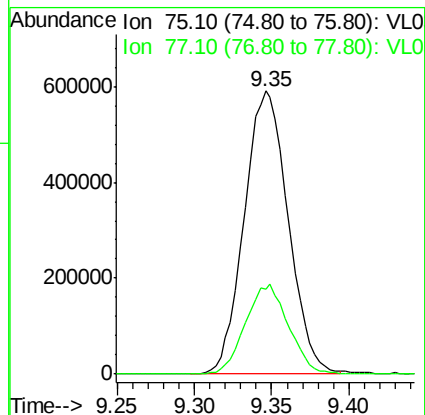
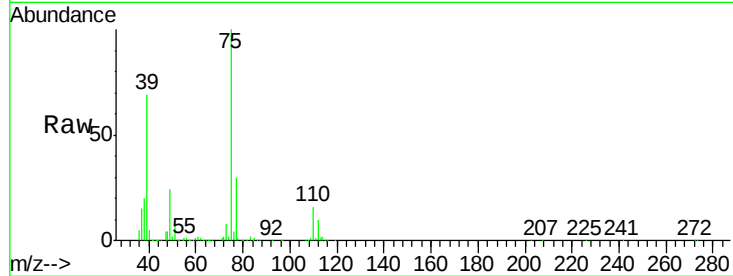
VL0924ABS01

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#46

cis-1,3-Dichloropropene

Concen: 10.433 ppbv

RT: 8.77 min Scan# 1860

Delta R.T. 0.00 min

Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

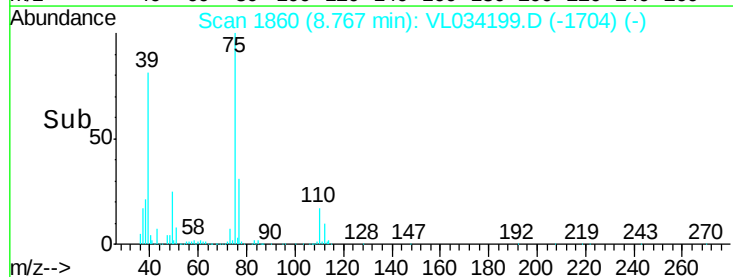
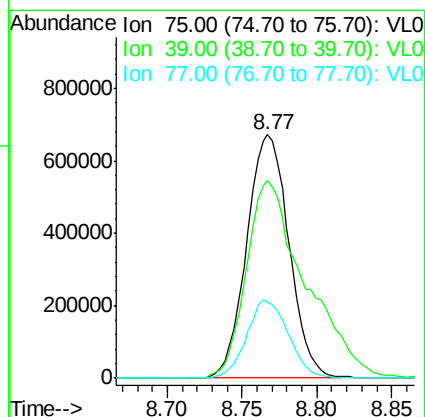
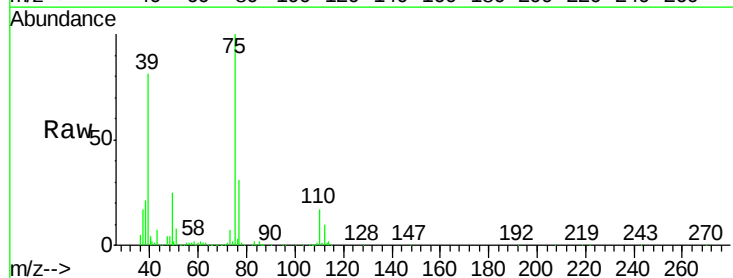
Tgt Ion: 75 Resp: 1319352

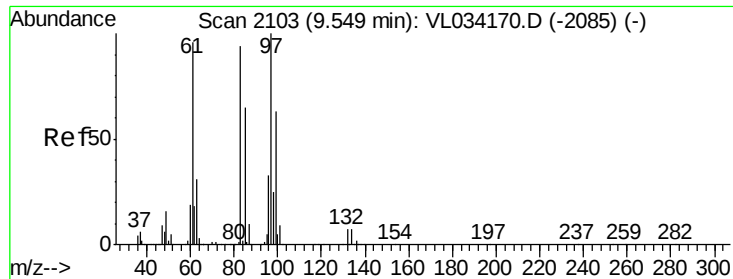
Ion Ratio Lower Upper

75 100

39 80.9 65.0 97.4

77 31.0 24.5 36.7





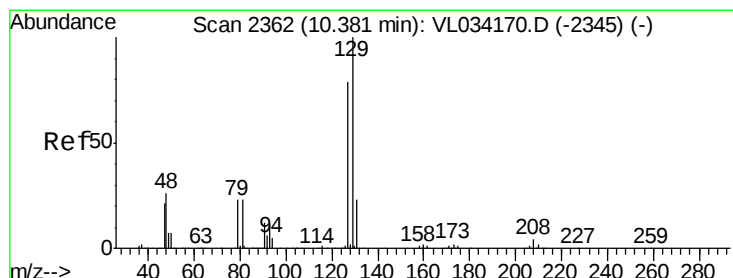
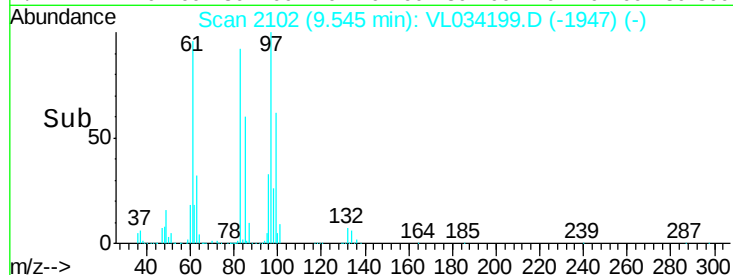
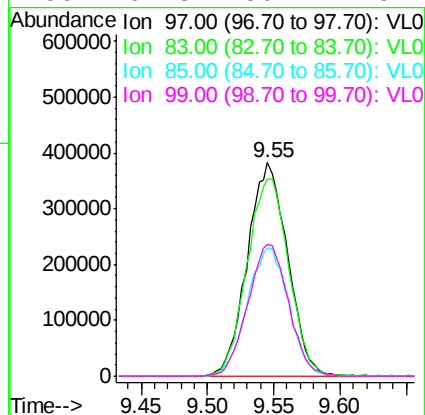
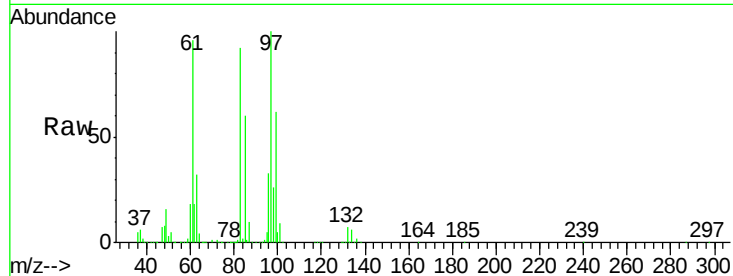
#47
 1,1,2-Trichloroethane
 Concen: 9.302 ppbv
 RT: 9.55 min Scan# 2102
 Delta R.T. -0.00 min
 Lab File: VL034199.D
 Acq: 24 Sep 2019 12:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0924ABS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		807808		
83	92.4	75.3	112.9		
85	59.9	52.1	78.1		
99	61.8	50.2	75.2		

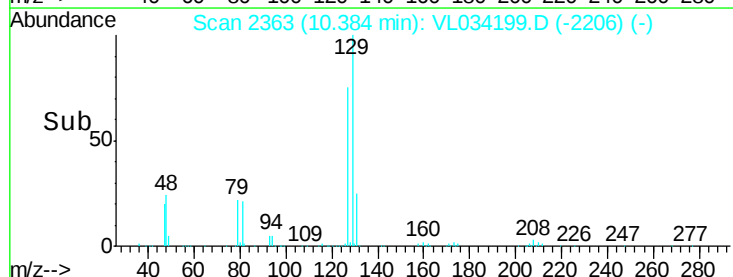
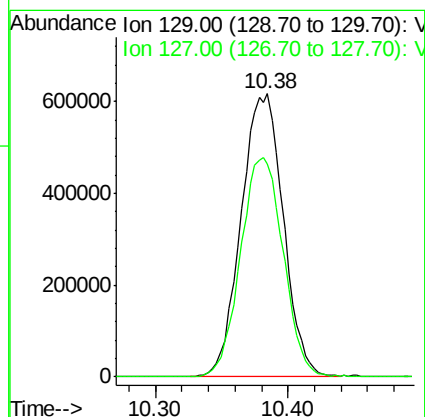
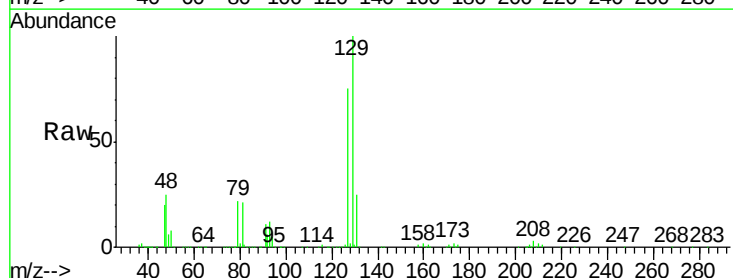
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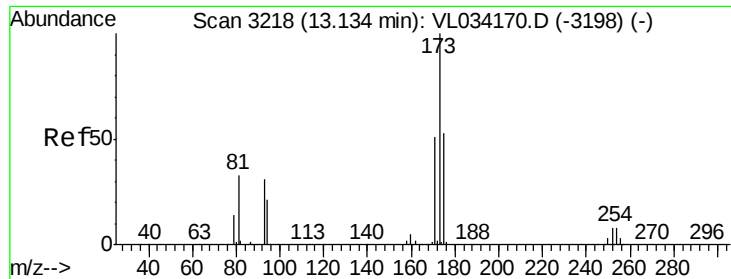
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#48
 Dibromochloromethane
 Concen: 9.900 ppbv
 RT: 10.38 min Scan# 2363
 Delta R.T. 0.00 min
 Lab File: VL034199.D
 Acq: 24 Sep 2019 12:31

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		1362616		
127	78.8	39.2	117.6		





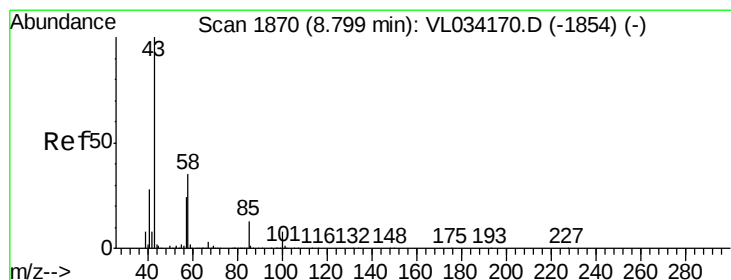
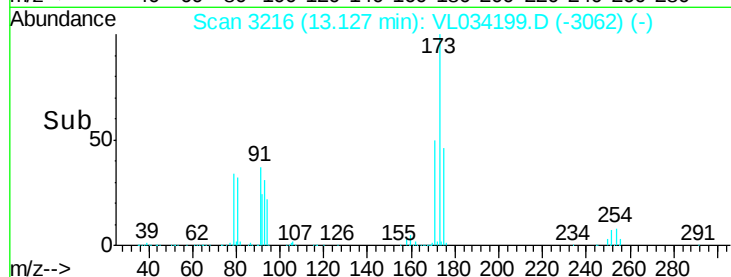
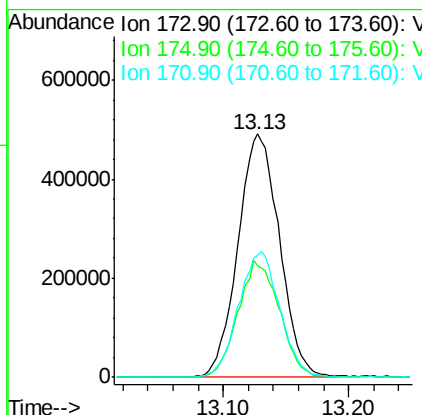
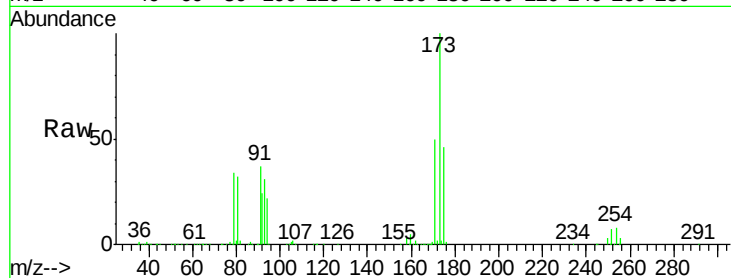
#49
Bromoform
Concen: 10.114 ppbv
RT: 13.13 min Scan# 3216
Delta R.T. -0.01 min
Lab File: VL034199.D
Acq: 24 Sep 2019 12:31

Instrument :
MSVOA_L
ClientSampleId :
VL0924ABS01

Tot Ion:173 Resp: 1126453
Ion Ratio Lower Upper
173 100
175 48.0 40.3 60.5
171 51.7 42.0 63.0

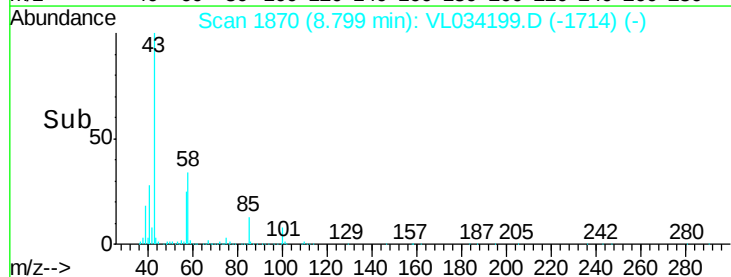
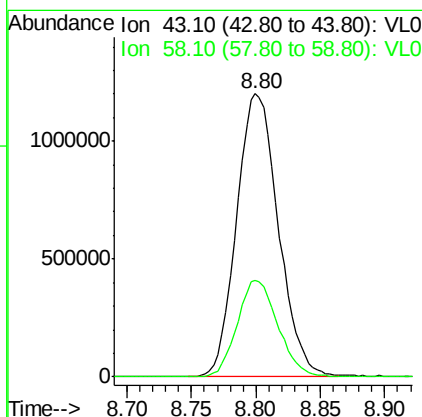
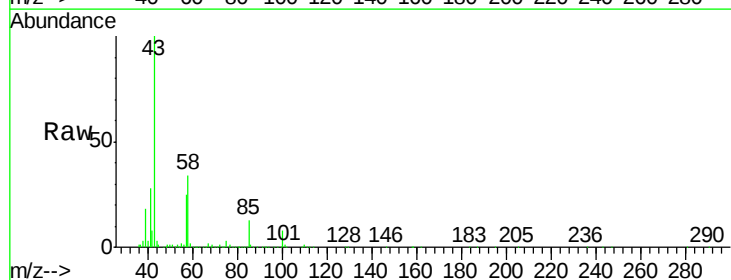
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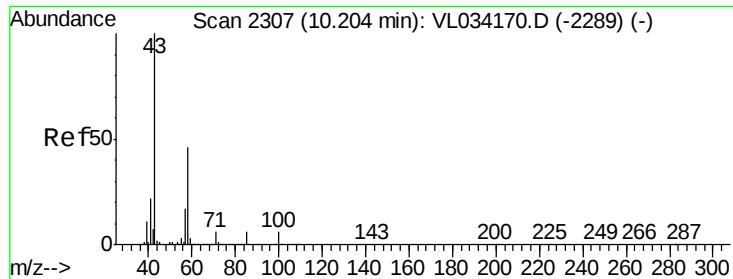
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#50
4-Methyl-2-Pentanone
Concen: 9.333 ppbv
RT: 8.80 min Scan# 1870
Delta R.T. 0.00 min
Lab File: VL034199.D
Acq: 24 Sep 2019 12:31

Tgt Ion: 43 Resp: 2702739
Ion Ratio Lower Upper
43 100
58 33.4 27.6 41.4





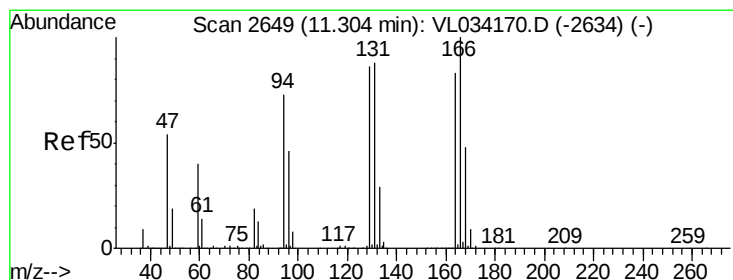
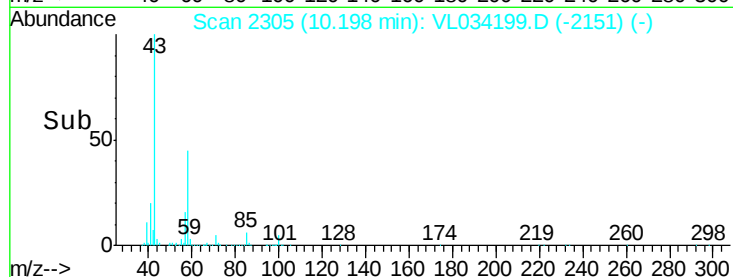
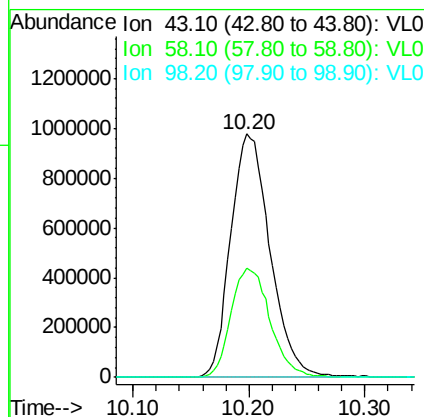
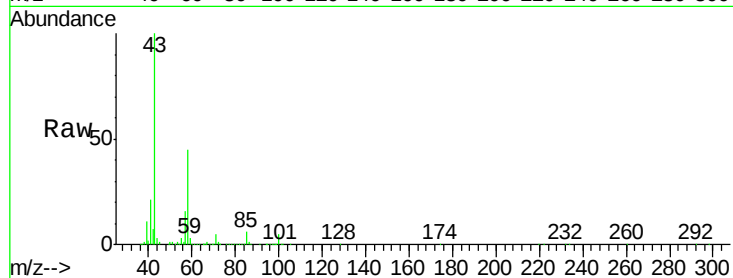
#51
2-Hexanone
Concen: 9.456 ppbv
RT: 10.20 min Scan# 2305
Delta R.T. -0.01 min
Lab File: VL034199.D
Acq: 24 Sep 2019 12:31

Instrument :
MSVOA_L
ClientSampleId :
VL0924ABS01

Tot Ion: 43 Resp: 2298039
Ion Ratio Lower Upper
43 100
58 44.7 36.2 54.4
98 0.2 0.2 0.2

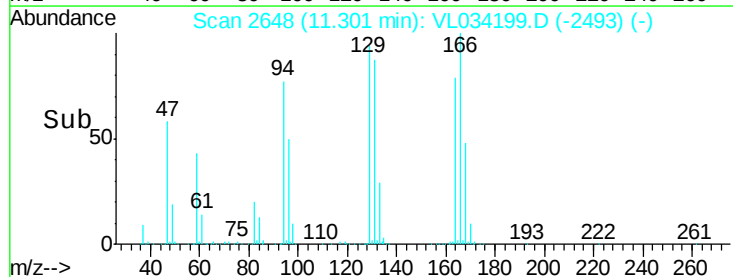
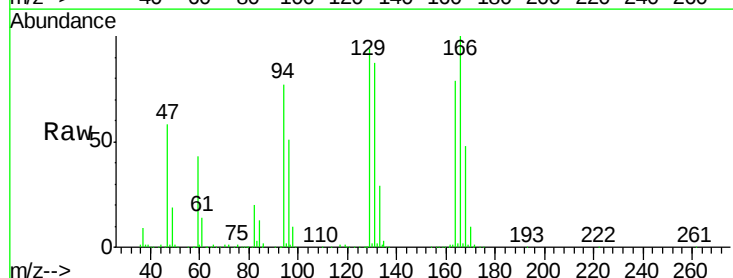
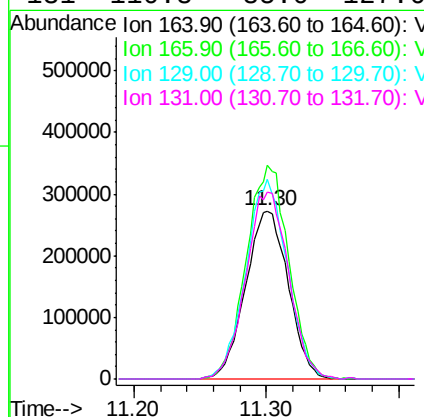
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#52
Tetrachloroethene
Concen: 8.551 ppbv
RT: 11.30 min Scan# 2648
Delta R.T. -0.00 min
Lab File: VL034199.D
Acq: 24 Sep 2019 12:31

Tgt Ion: 164 Resp: 608067
Ion Ratio Lower Upper
164 100
166 126.9 96.7 145.1
129 118.7 82.8 124.2
131 110.8 85.0 127.6





#53

Toluene

Concen: 9.428 ppbv

RT: 9.87 min Scan# 2204

Delta R.T. -0.01 min

Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

Instrument :

MSVOA_L

ClientSampleId :

VL0924ABS01

Tot Ion: 91 Resp: 2217651

Ion Ratio Lower Upper

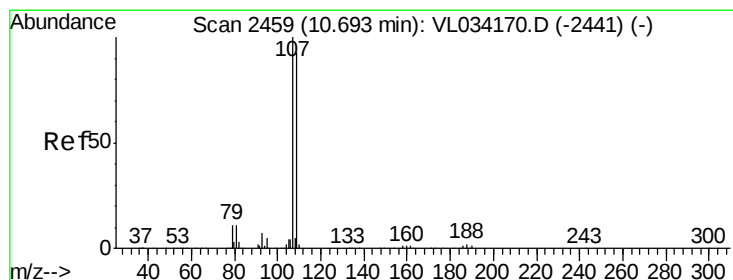
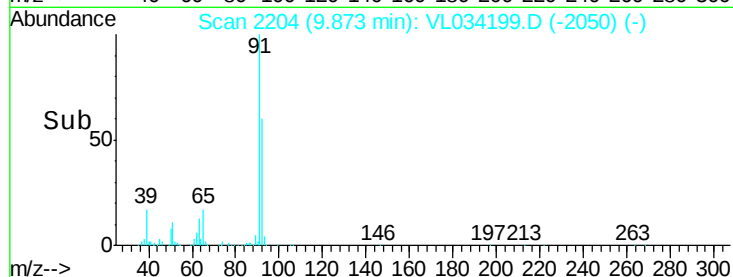
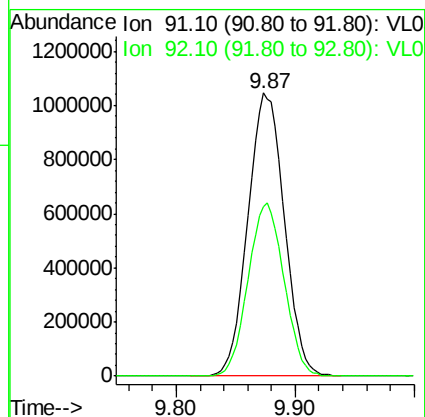
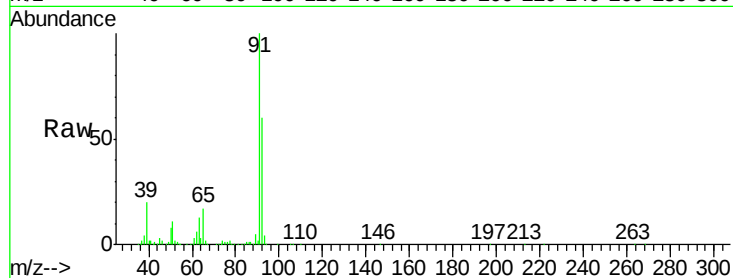
91 100

92 60.4 49.0 73.6

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#54

1,2-Dibromoethane

Concen: 9.399 ppbv

RT: 10.69 min Scan# 2457

Delta R.T. -0.01 min

Lab File: VL034199.D

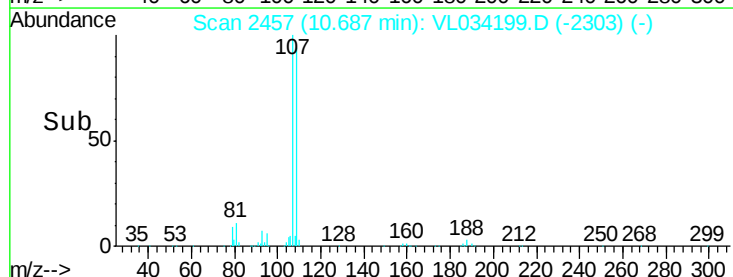
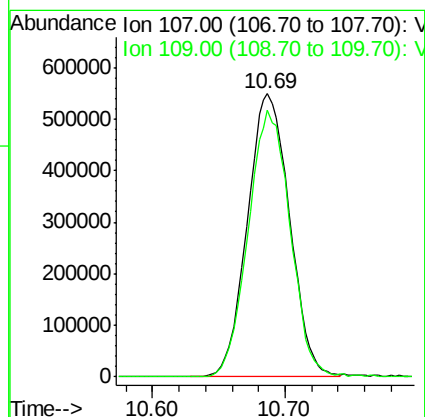
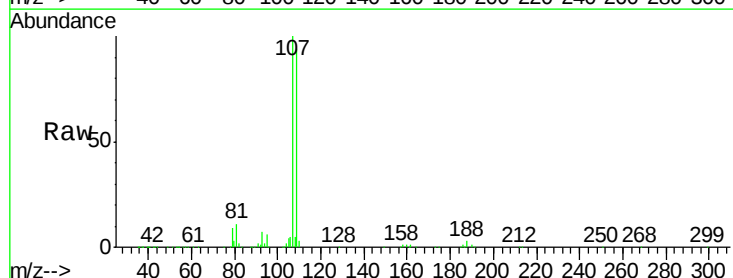
Acq: 24 Sep 2019 12:31

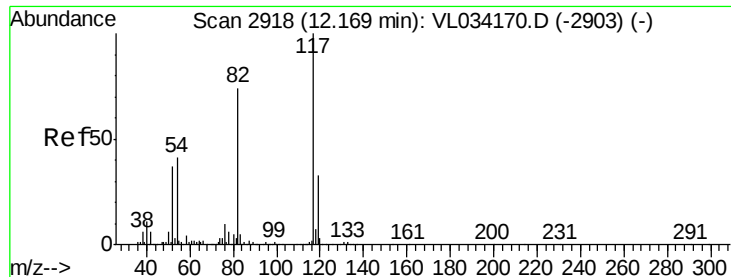
Tgt Ion: 107 Resp: 1213807

Ion Ratio Lower Upper

107 100

109 94.3 74.5 111.7





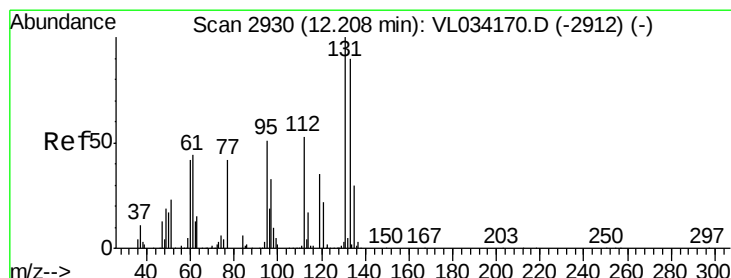
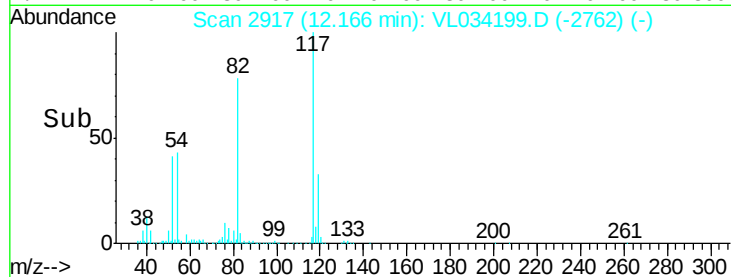
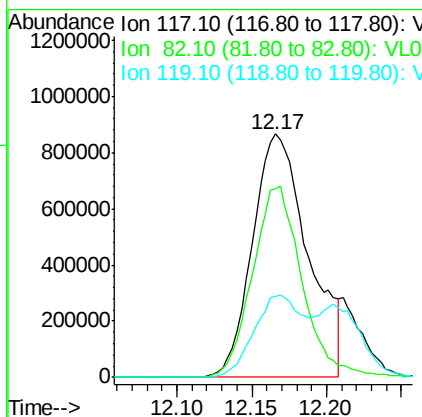
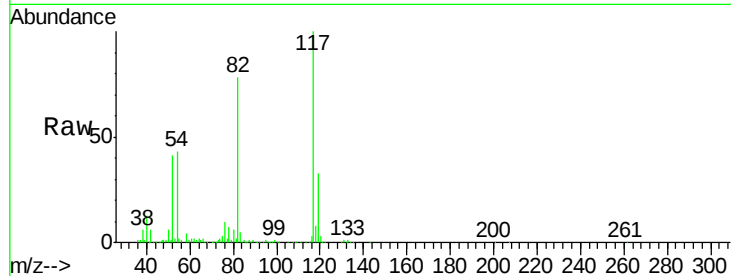
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.17 min Scan# 2917
Delta R.T. -0.00 min
Lab File: VL034199.D
Acq: 24 Sep 2019 12:31

Instrument :
MSVOA_L
ClientSampleId :
VL0924ABS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	70.3	58.2	87.4
119	33.1	23.7	35.5

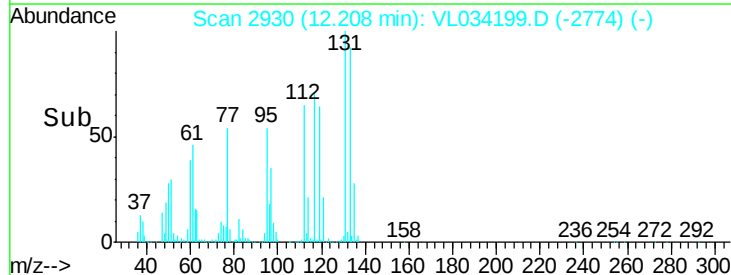
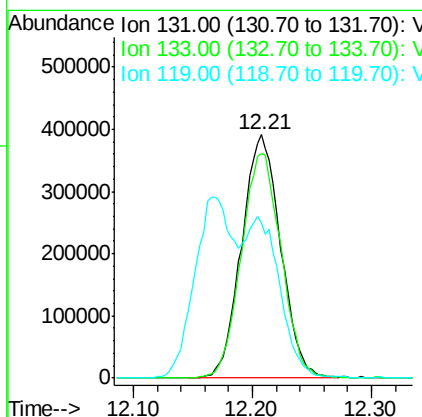
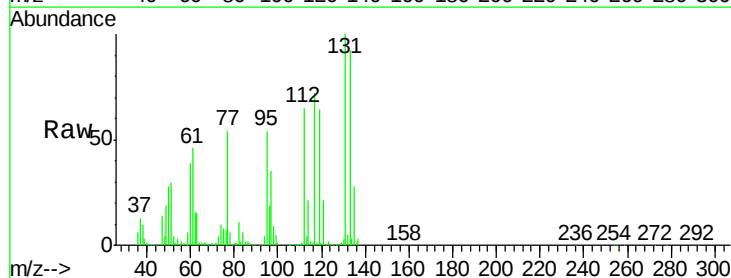
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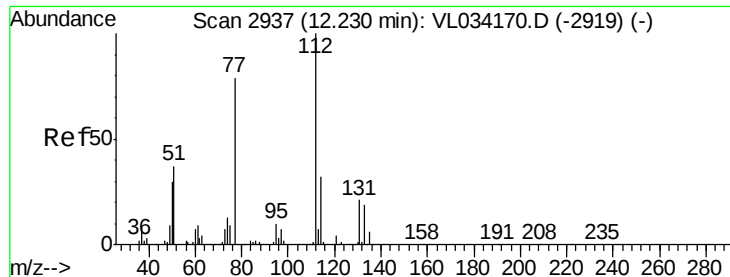
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.869 ppbv
RT: 12.21 min Scan# 2930
Delta R.T. 0.00 min
Lab File: VL034199.D
Acq: 24 Sep 2019 12:31

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.4	75.1	112.7
119	60.8	47.4	71.0





#57

Chlorobenzene

Concen: 8.147 ppbv

RT: 12.23 min Scan# 2936

Delta R.T. -0.00 min

Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

Instrument :

MSVOA_L

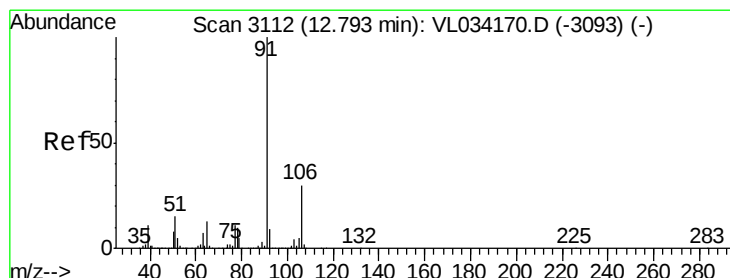
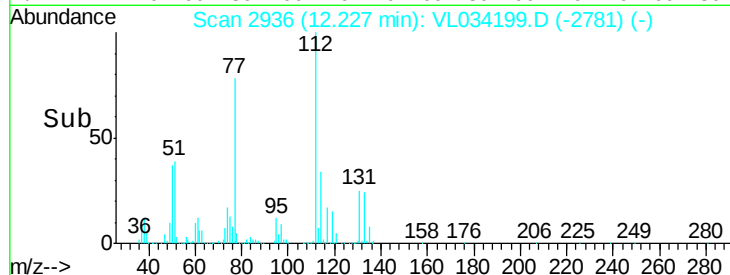
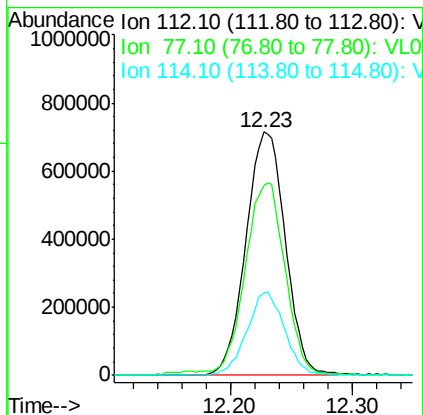
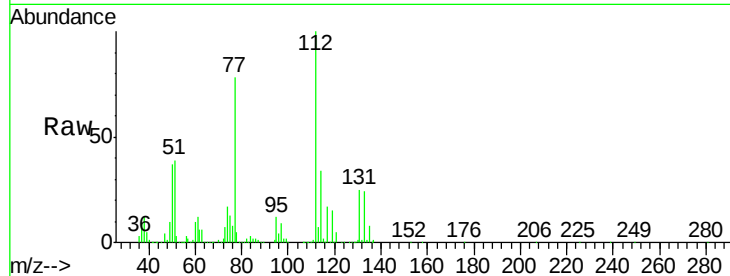
ClientSampleId :

VL0924ABS01

Tot Ion:	112	Resp:	1591992
Ion	Ratio	Lower	Upper
112	100		
77	77.3	64.3	96.5
114	33.8	28.9	35.3

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#58

Ethyl Benzene

Concen: 8.375 ppbv

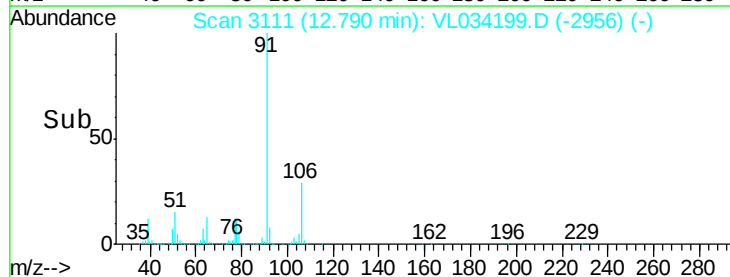
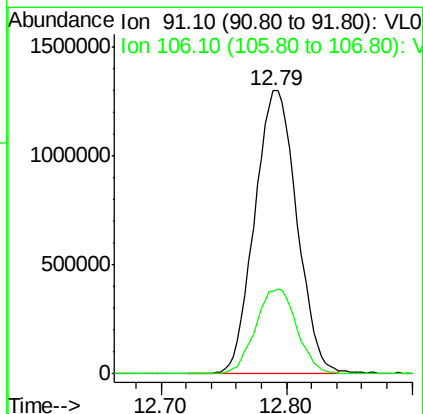
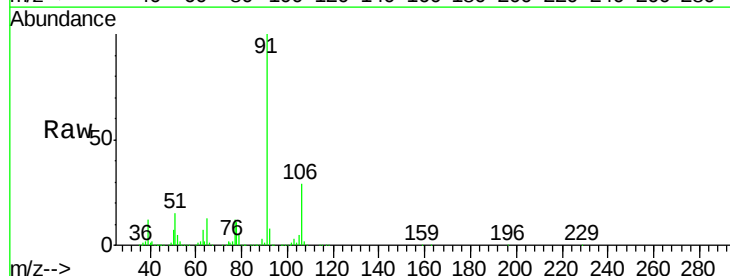
RT: 12.79 min Scan# 3111

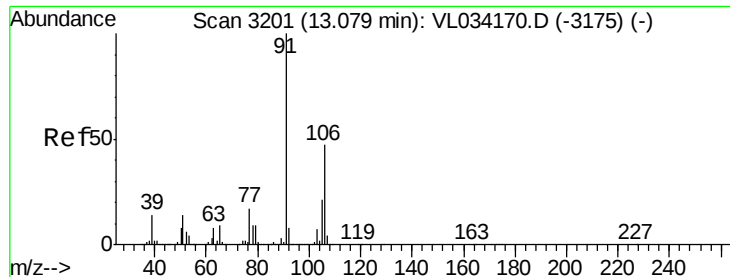
Delta R.T. -0.00 min

Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

Tgt Ion:	91	Resp:	3032873
Ion	Ratio	Lower	Upper
91	100		
106	29.2	24.2	36.4





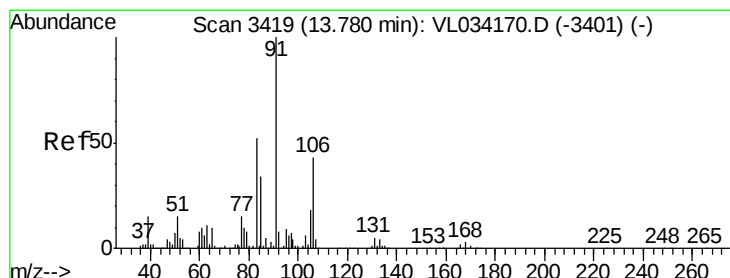
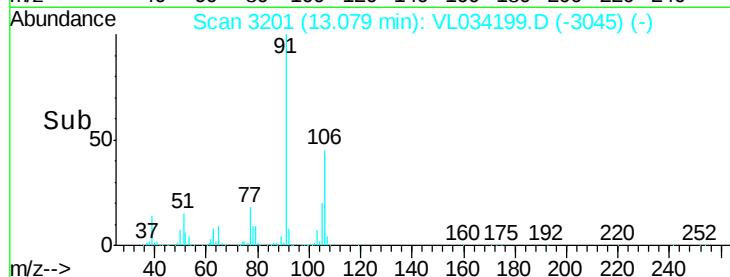
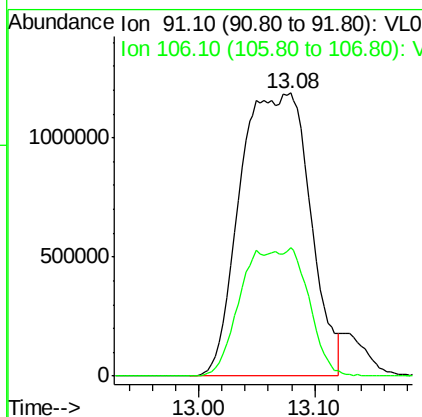
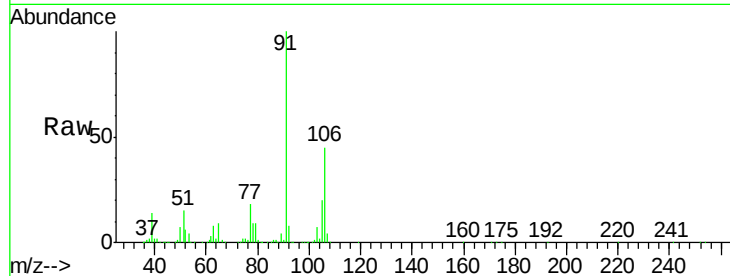
#59
m/p-Xylene
Concen: 16.593 ppbv m
RT: 13.08 min Scan# 3201
Delta R.T. 0.00 min
Lab File: VL034199.D
Acq: 24 Sep 2019 12:31

Instrument :
MSVOA_L
ClientSampleId :
VL0924ABS01

Tot Ion: 91 Resp: 4977122
Ion Ratio Lower Upper
91 100
106 43.1 35.5 53.3

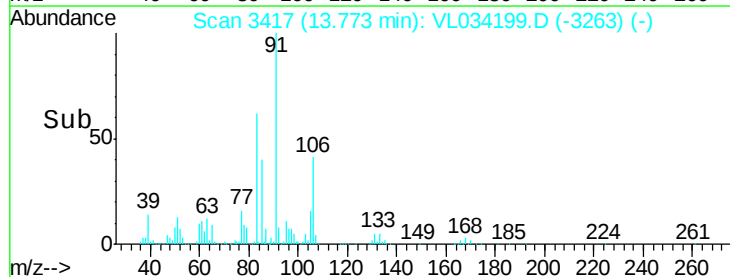
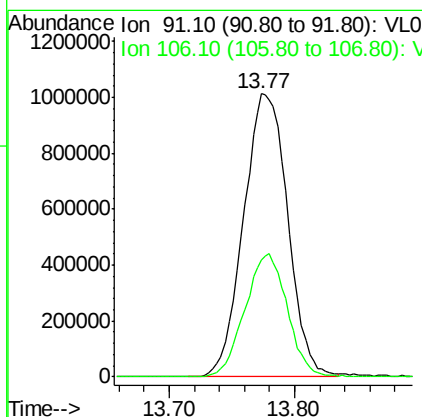
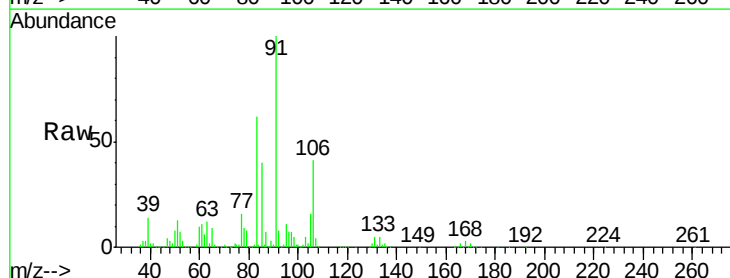
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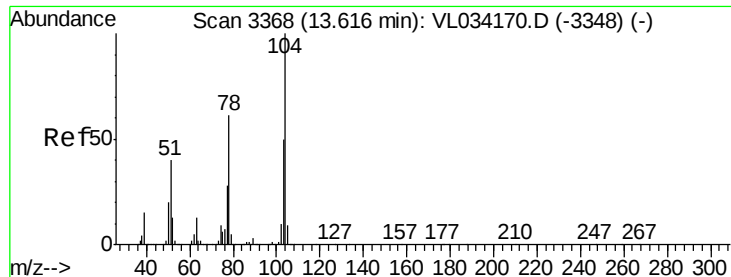
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#60
o-Xylene
Concen: 8.268 ppbv
RT: 13.77 min Scan# 3417
Delta R.T. -0.01 min
Lab File: VL034199.D
Acq: 24 Sep 2019 12:31

Tgt Ion: 91 Resp: 2479764
Ion Ratio Lower Upper
91 100
106 41.8 21.2 63.6





#61

Stvrene

Concen: 8.474 ppbv

RT: 13.61 min Scan# 3367

Delta R.T. -0.00 min

Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

Instrument :

MSVOA_L

ClientSampleId :

VL0924ABS01

Tot Ion:104 Resp: 1820620

Ion Ratio Lower Upper

104 100

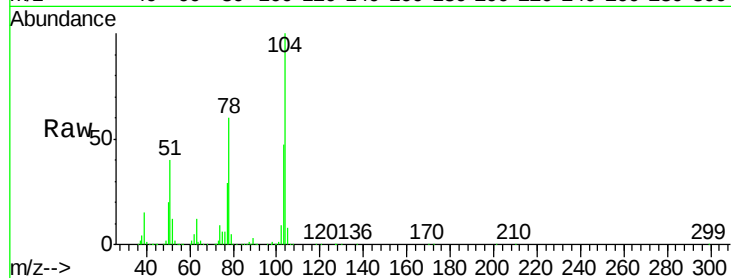
78 62.7 49.7 74.5

103 48.3 38.4 57.6

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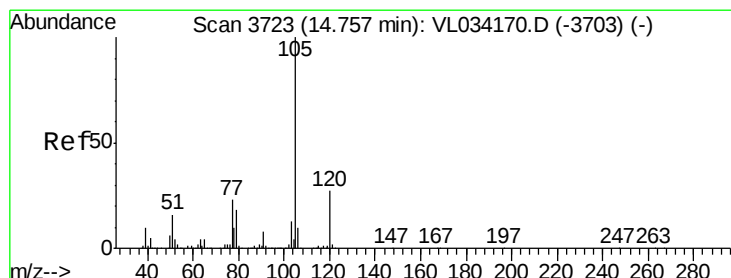
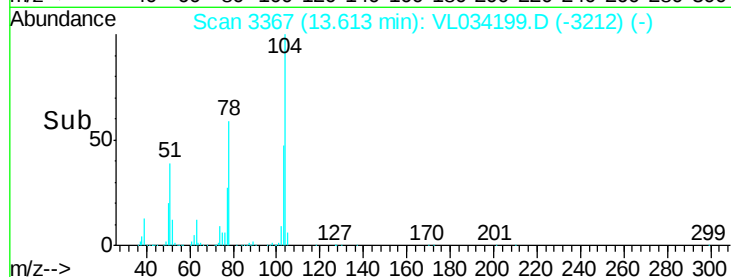
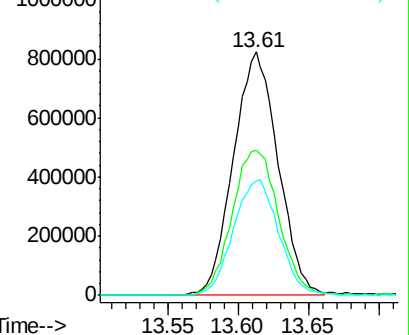
9/26/2019 12:39:30 AM



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: 8.256 ppbv

RT: 14.75 min Scan# 3722

Delta R.T. -0.00 min

Lab File: VL034199.D

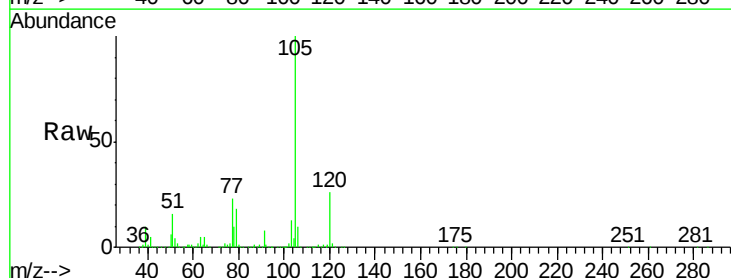
Acq: 24 Sep 2019 12:31

Tgt Ion:105 Resp: 3205543

Ion Ratio Lower Upper

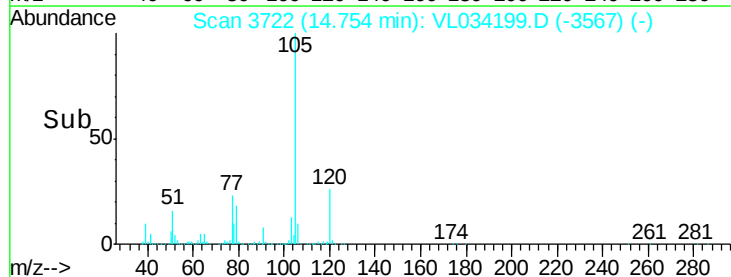
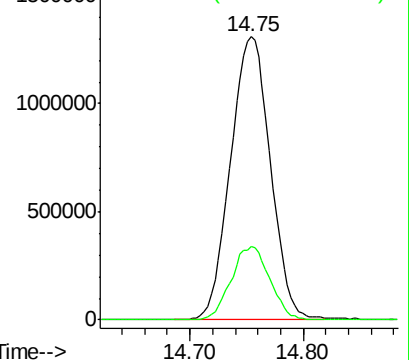
105 100

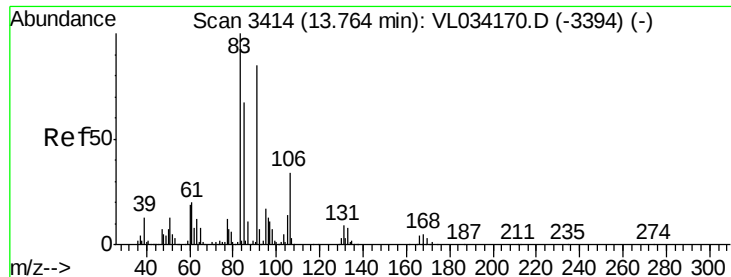
120 25.3 20.7 31.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





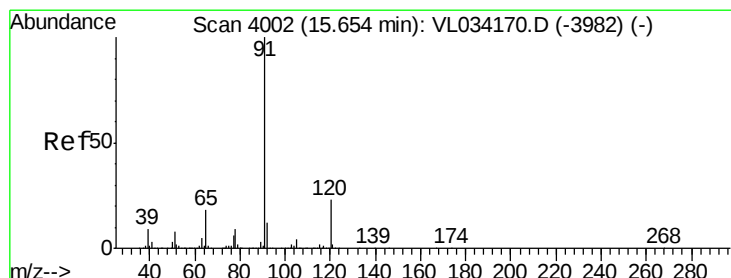
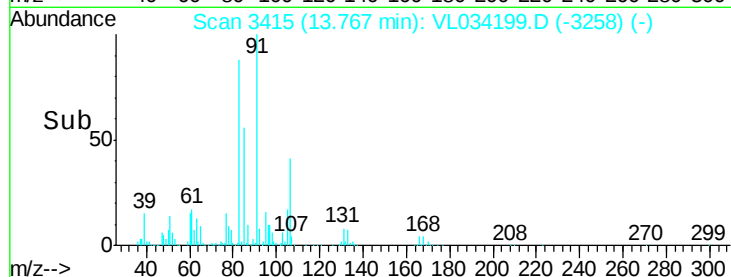
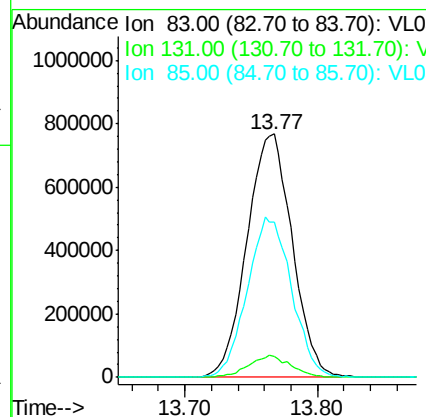
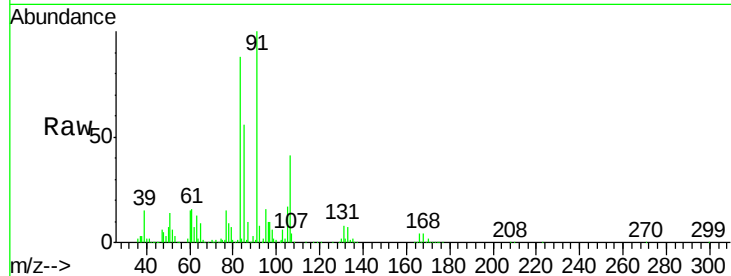
#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.429 ppbv
 RT: 13.77 min Scan# 3415
 Delta R.T. 0.00 min
 Lab File: VL034199.D
 Acq: 24 Sep 2019 12:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0924ABS01

Tot Ion	83	Resp	1827207
Ion Ratio	100	Lower	Upper
83	100		
131	8.4	4.3	12.8
85	64.5	32.8	98.4

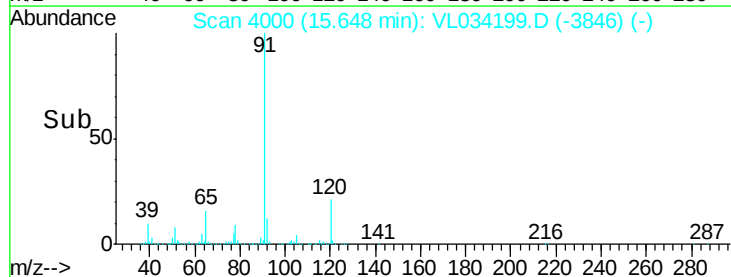
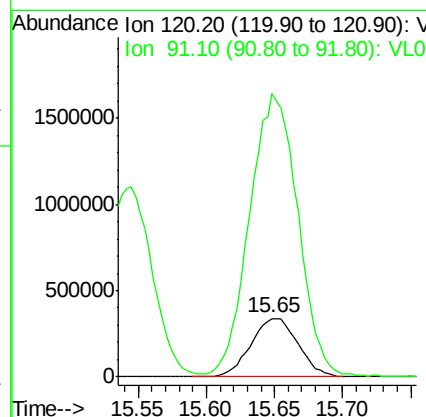
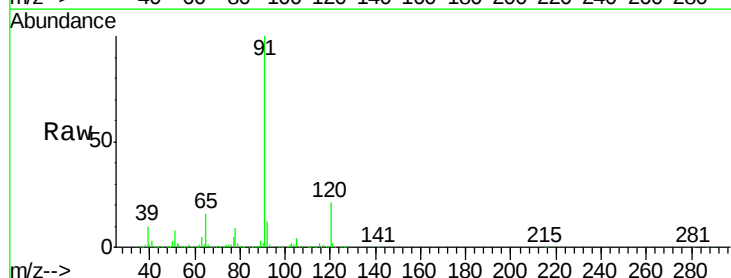
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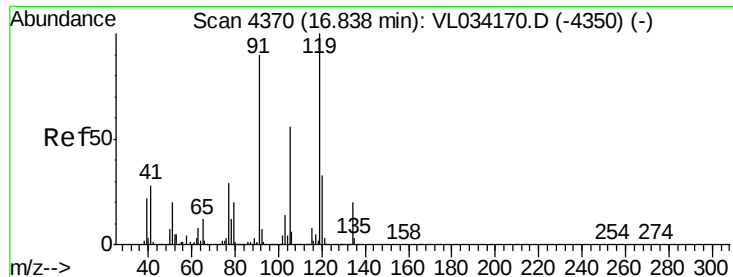
MMDadoda
 9/26/2019 12:39:30 AM



#64
 n-propylbenzene
 Concen: 8.261 ppbv
 RT: 15.65 min Scan# 4000
 Delta R.T. -0.01 min
 Lab File: VL034199.D
 Acq: 24 Sep 2019 12:31

Tgt Ion	120	Resp	811510
Ion Ratio	100	Lower	Upper
120	100		
91	500.3	378.2	567.2





#65

tert-Butylbenzene

Concen: 8.033 ppbv

RT: 16.84 min Scan# 4370

Delta R.T. 0.00 min

Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

Instrument :

MSVOA_L

ClientSampleId :

VL0924ABS01

Tot Ion:119 Resp: 2725122

Ion Ratio Lower Upper

119 100

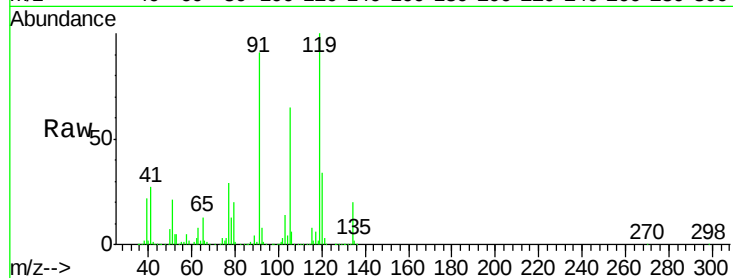
91 93.5 74.9 112.3

134 19.1 15.8 23.6

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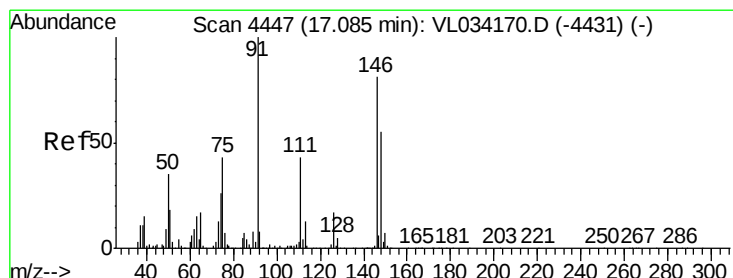
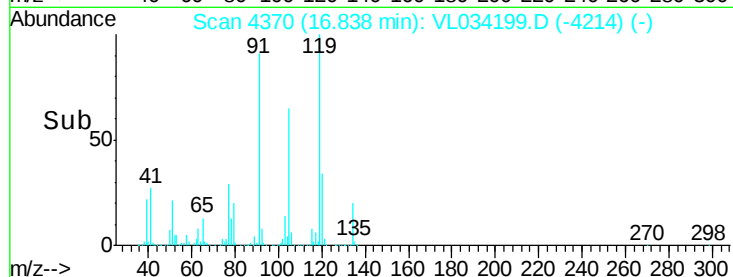
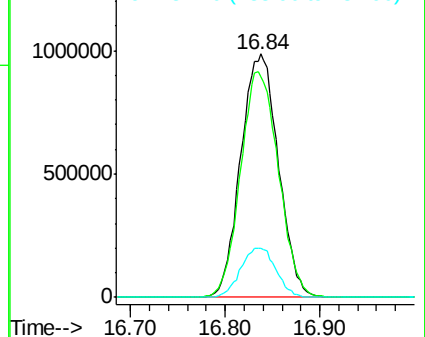
9/26/2019 12:39:30 AM



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: 10.741 ppbv

RT: 17.09 min Scan# 4447

Delta R.T. 0.00 min

Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

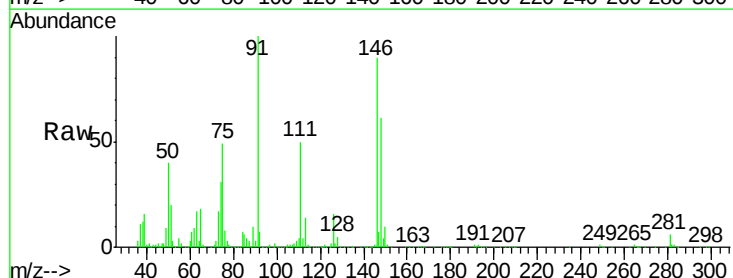
Tgt Ion: 91 Resp: 1289219

Ion Ratio Lower Upper

91 100

126 15.3 12.6 19.0

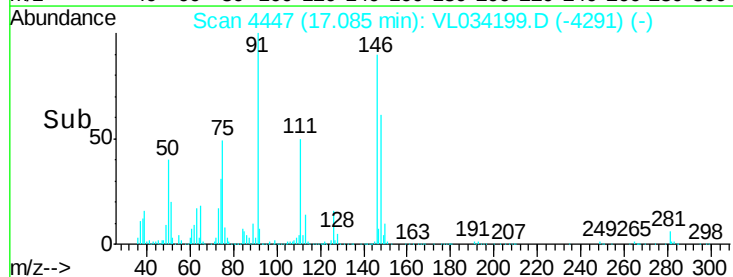
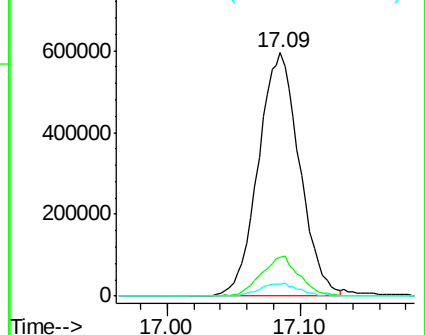
128 5.1 4.0 6.0

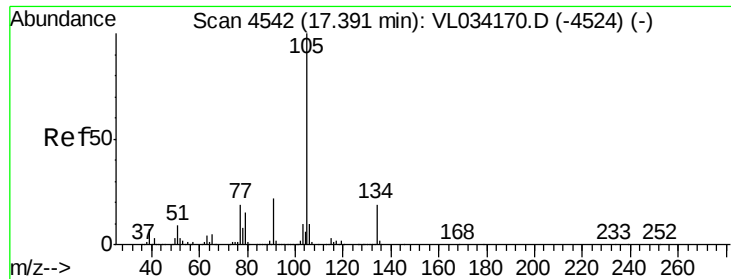


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 8.115 ppbv

RT: 17.39 min Scan# 4541

Delta R.T. -0.00 min

Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

Instrument :

MSVOA_L

ClientSampleId :

VL0924ABS01

Tot Ion:105 Resp: 3936658

Ion Ratio Lower Upper

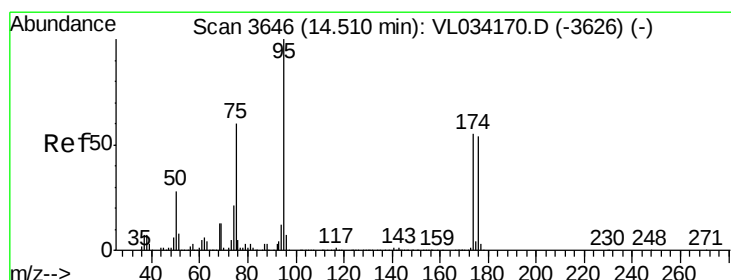
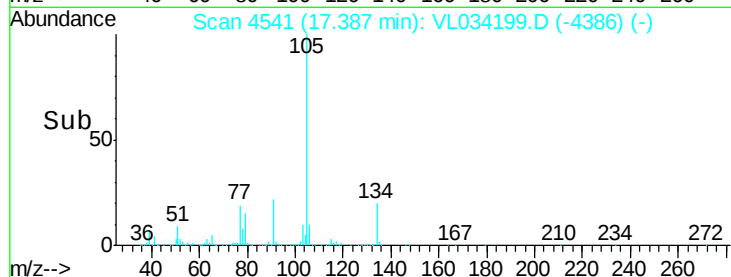
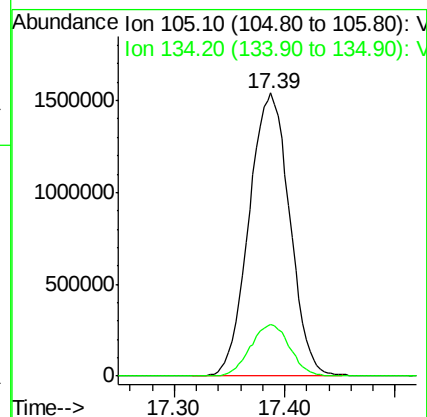
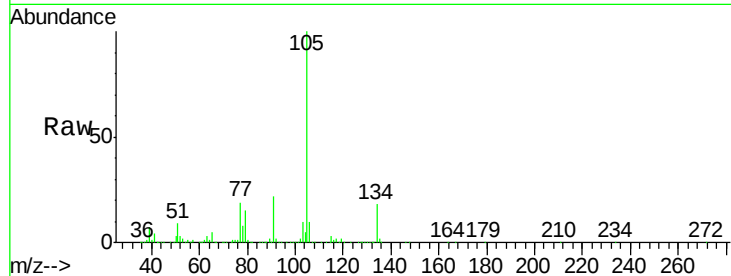
105 100

134 17.9 14.6 22.0

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.228 ppbv

RT: 14.50 min Scan# 3644

Delta R.T. -0.01 min

Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

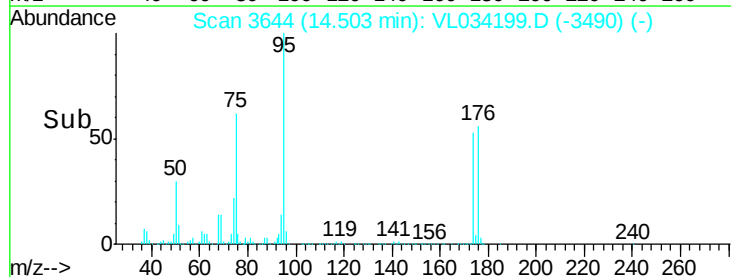
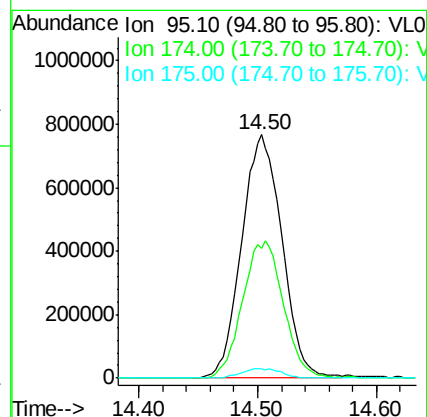
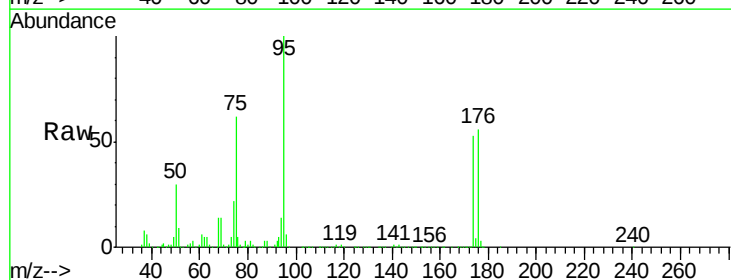
Tgt Ion: 95 Resp: 1799707

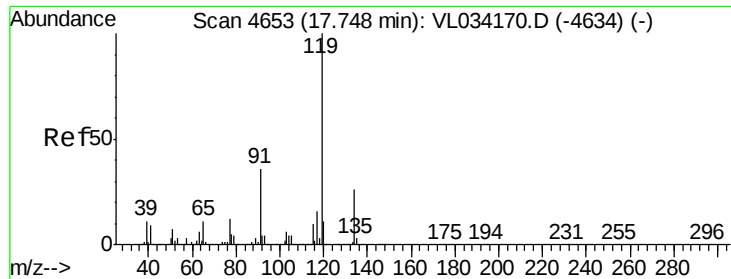
Ion Ratio Lower Upper

95 100

174 57.2 45.1 67.7

175 4.0 3.3 4.9





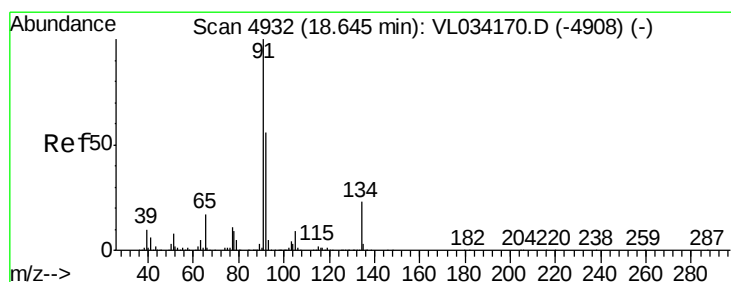
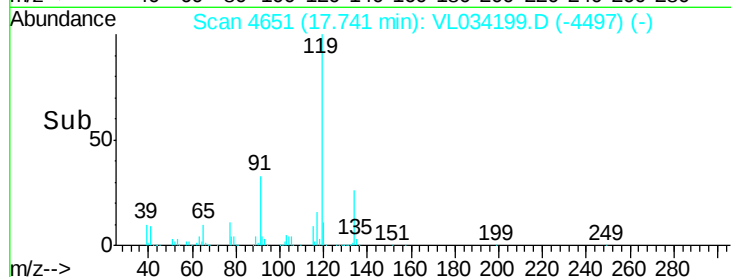
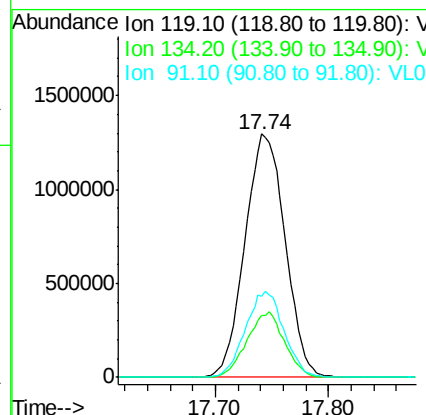
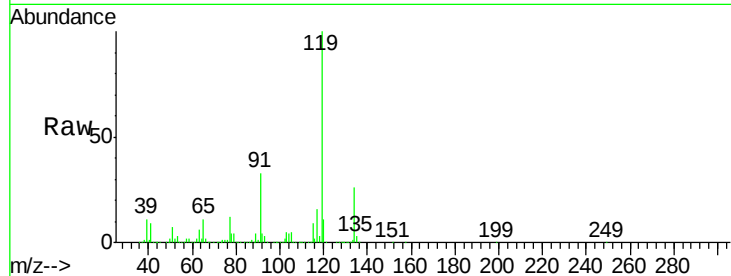
#69
 p-Isopropyltoluene
 Concen: 8.130 ppbv
 RT: 17.74 min Scan# 4651
 Delta R.T. -0.01 min
 Lab File: VL034199.D
 Acq: 24 Sep 2019 12:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0924ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.3	20.6	30.8
91	34.1	27.6	41.4

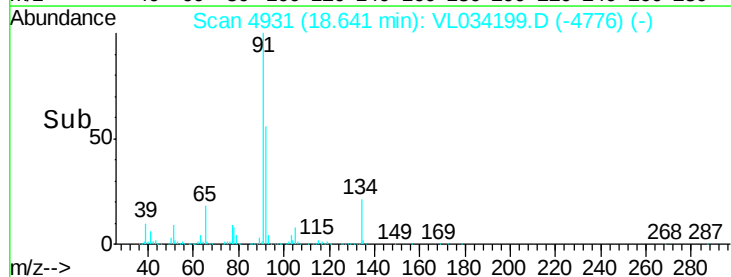
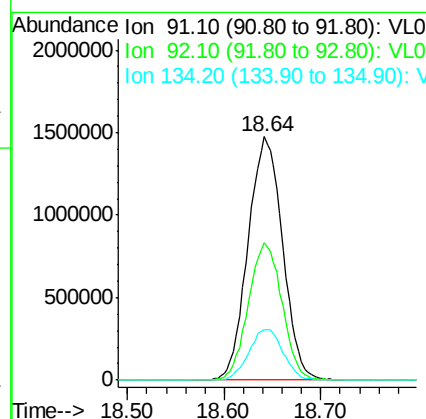
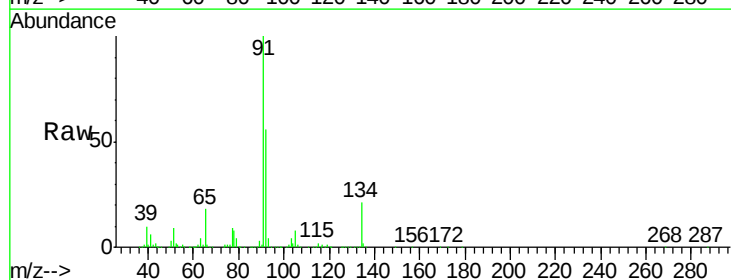
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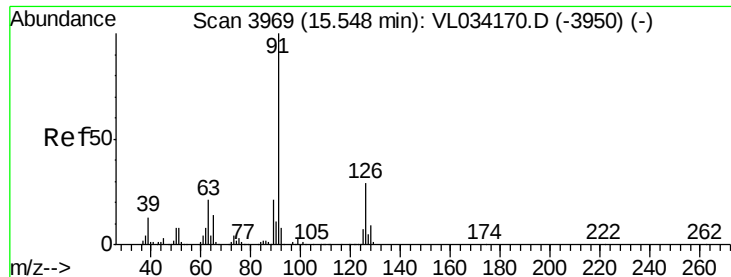
MMDadoda
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#70
 n-Butylbenzene
 Concen: 7.987 ppbv
 RT: 18.64 min Scan# 4931
 Delta R.T. -0.00 min
 Lab File: VL034199.D
 Acq: 24 Sep 2019 12:31

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.0	44.8	67.2
134	20.6	17.3	25.9





#71

2-Chlorotoluene

Concen: 8.292 ppbv

RT: 15.55 min Scan# 3968

Delta R.T. -0.00 min

Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

Instrument :

MSVOA_L

ClientSampleId :

VL0924ABS01

Tot Ion: 91 Resp: 2630423

Ion Ratio Lower Upper

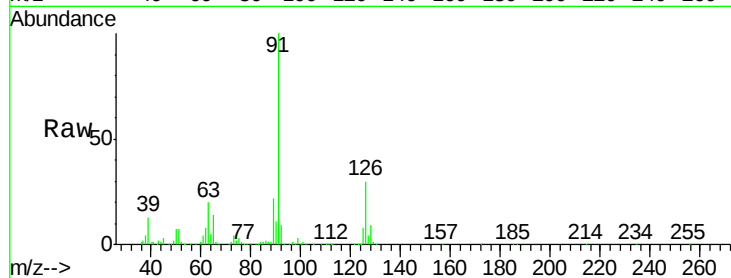
91 100

126 28.0 11.2 45.0

Manual Integrations
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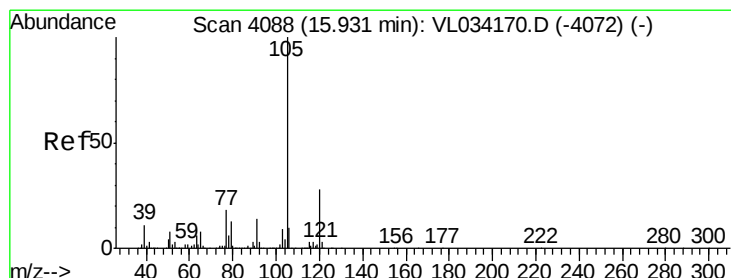
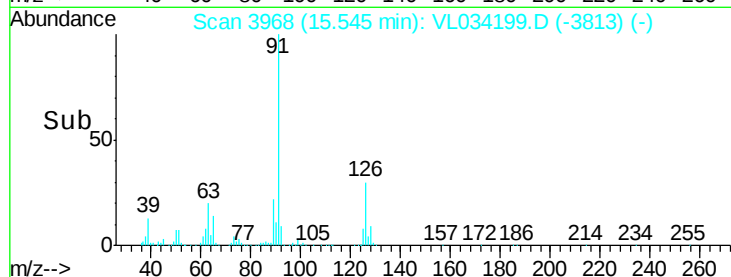
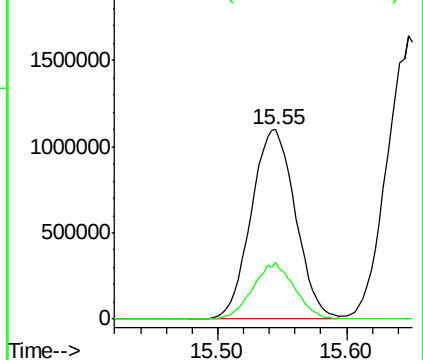
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 8.322 ppbv

RT: 15.93 min Scan# 4087

Delta R.T. -0.00 min

Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

Tgt Ion:105 Resp: 2820235

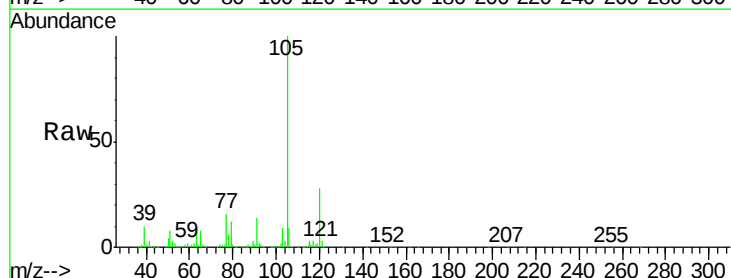
Ion Ratio Lower Upper

105 100

120 28.4 23.3 34.9

91 14.2 11.4 17.2

77 16.4 13.3 19.9

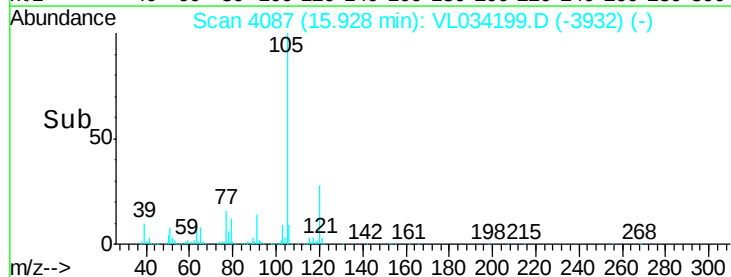
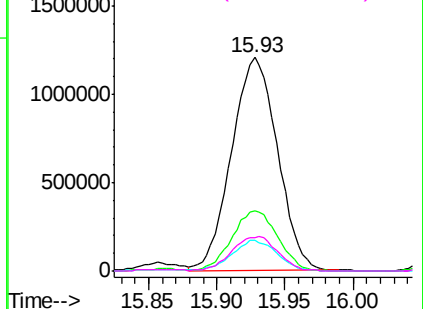


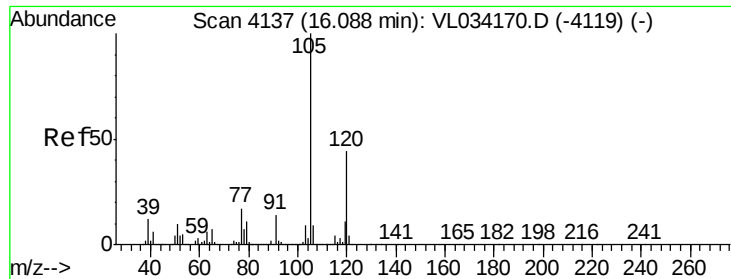
Abundance Ion 105.10 (104.80 to 105.80): V

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





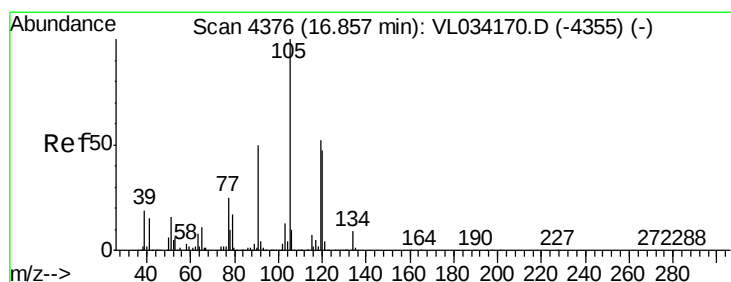
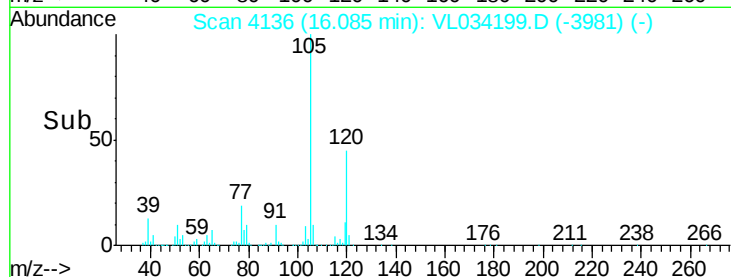
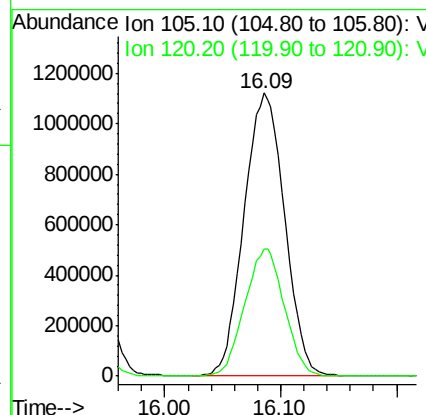
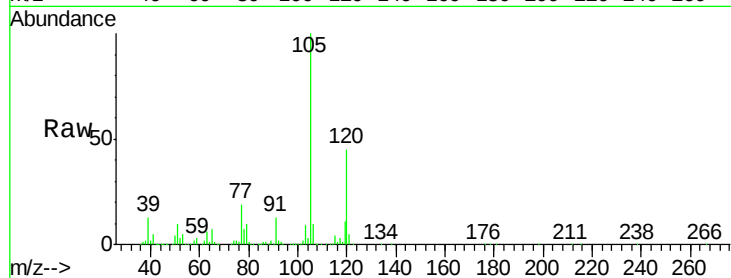
#73
 1,3,5-Trimethylbenzene
 Concen: 8.318 ppbv
 RT: 16.09 min Scan# 4136
 Delta R.T. -0.00 min
 Lab File: VL034199.D
 Acq: 24 Sep 2019 12:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0924ABS01

Tot Ion:105 Resp: 2722961
 Ion Ratio Lower Upper
 105 100
 120 45.1 35.6 53.4

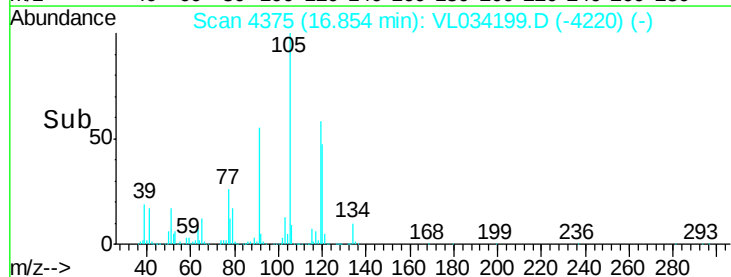
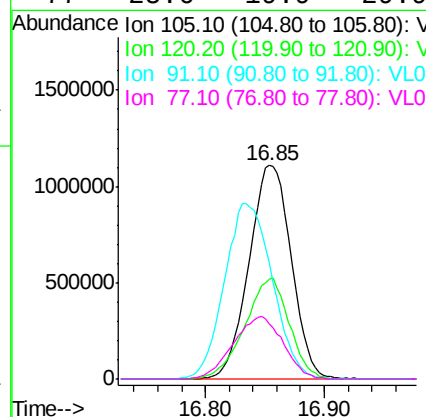
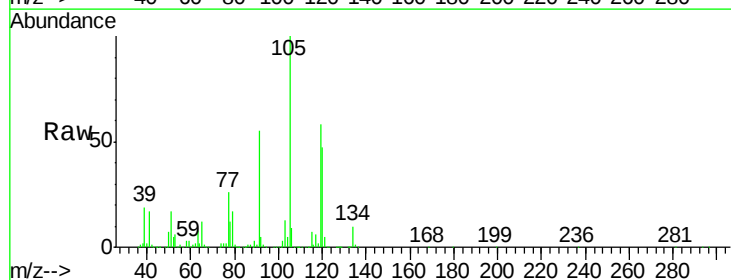
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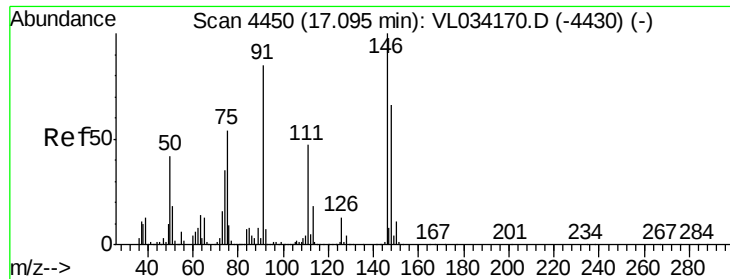
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#74
 1,2,4-Trimethylbenzene
 Concen: 7.838 ppbv
 RT: 16.85 min Scan# 4375
 Delta R.T. -0.00 min
 Lab File: VL034199.D
 Acq: 24 Sep 2019 12:31

Tgt Ion:105 Resp: 2724616
 Ion Ratio Lower Upper
 105 100
 120 46.7 37.5 56.3
 91 54.2 41.1 61.7
 77 25.6 19.9 29.9





#75

1,3-Dichlorobenzene

Concen: 7.849 ppbv

RT: 17.09 min Scan# 4449

Delta R.T. -0.00 min

Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

Instrument :

MSVOA_L

ClientSampleId :

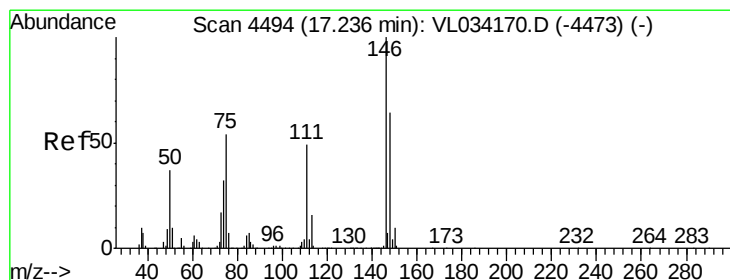
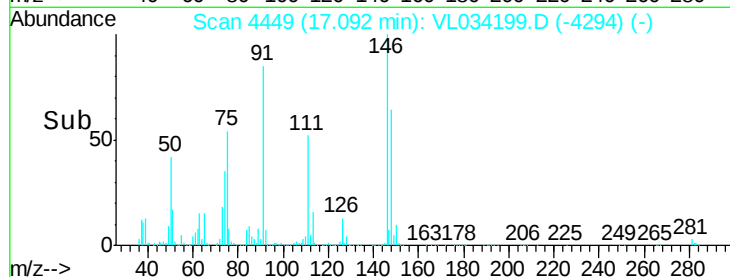
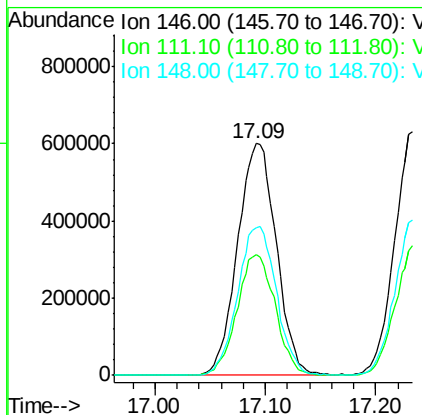
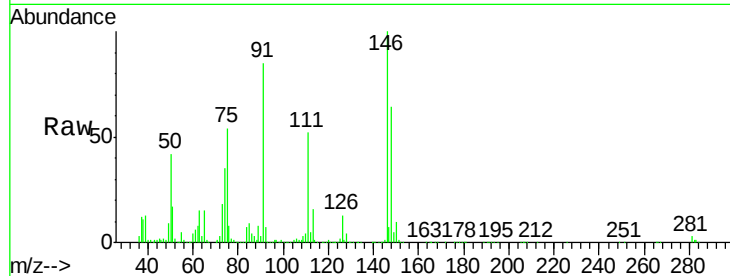
VL0924ABS01

Tot Ion:146 Resp: 1463912

Ion	Ratio	Lower	Upper
146	100		
111	51.4	25.9	77.8
148	64.3	32.6	97.7

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#76

1,4-Dichlorobenzene

Concen: 7.735 ppbv

RT: 17.23 min Scan# 4493

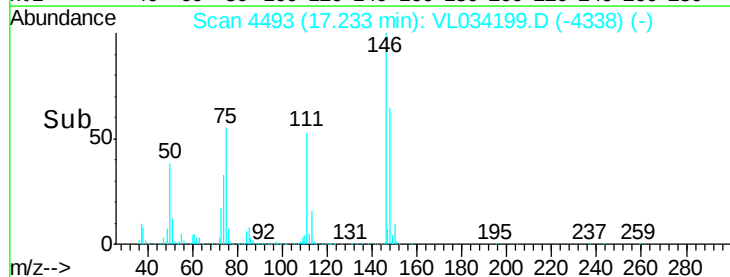
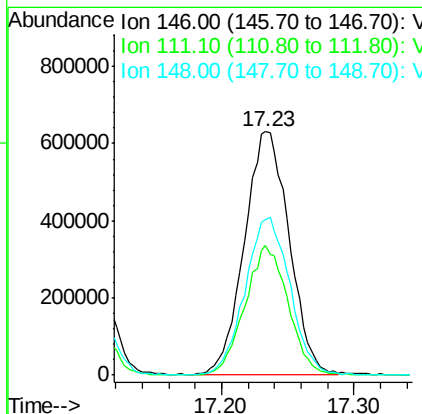
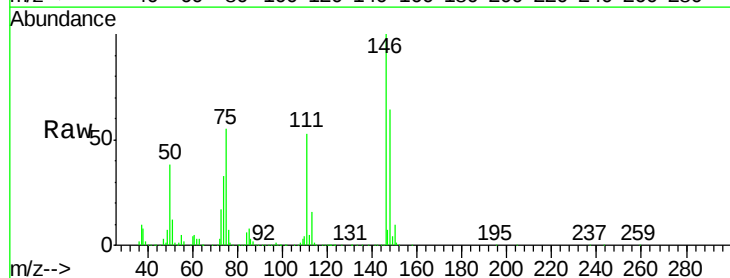
Delta R.T. -0.00 min

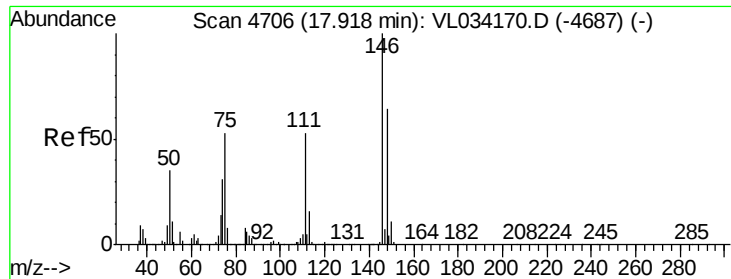
Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

Tgt Ion:146 Resp: 1477430

Ion	Ratio	Lower	Upper
146	100		
111	51.5	24.6	74.0
148	65.7	32.4	97.0





#77

1,2-Dichlorobenzene

Concen: 7.687 ppbv

RT: 17.92 min Scan# 4706

Delta R.T. 0.00 min

Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

Instrument :

MSVOA_L

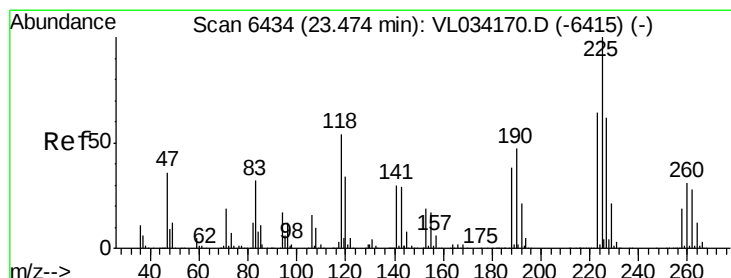
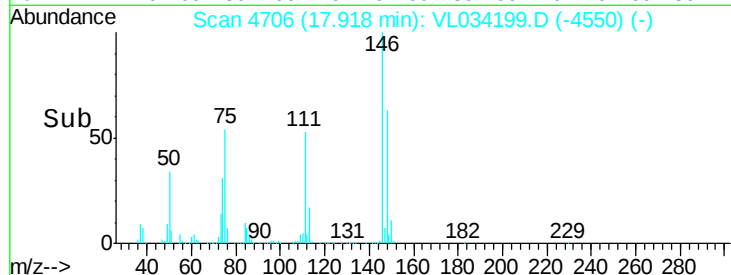
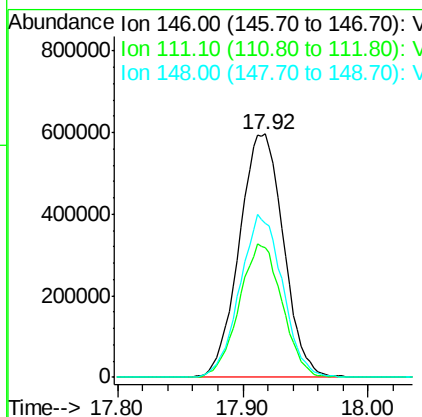
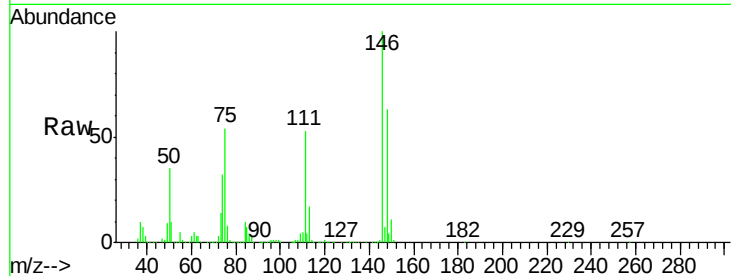
ClientSampleId :

VL0924ABS01

Tot Ion:	146	Resp:	1451005
Ion	Ratio	Lower	Upper
146	100		
111	53.7	26.1	78.3
148	65.3	31.9	95.9

Manual Integrations
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#78

Hexachloro-1,3-Butadiene

Concen: 8.689 ppbv

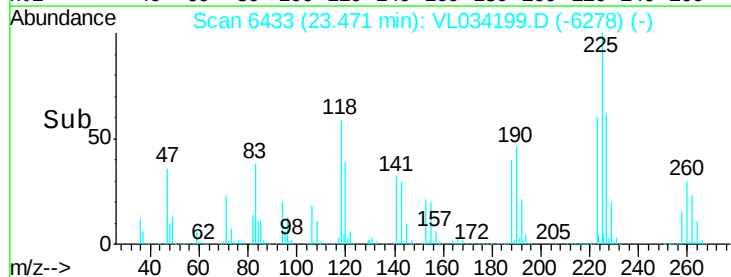
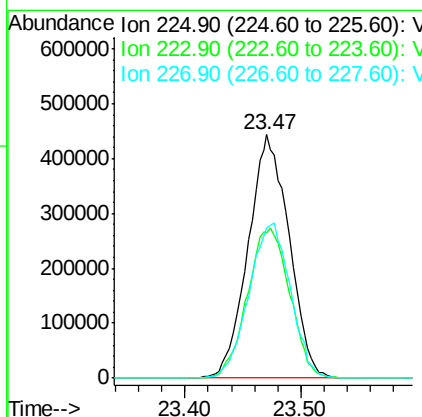
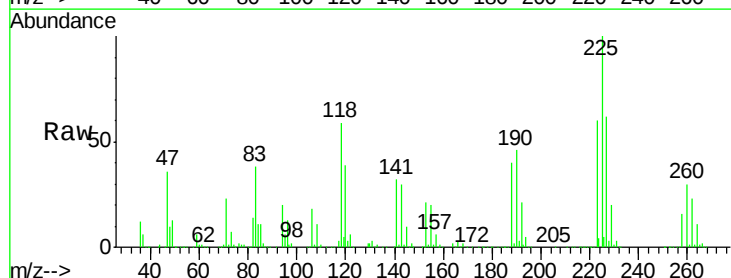
RT: 23.47 min Scan# 6433

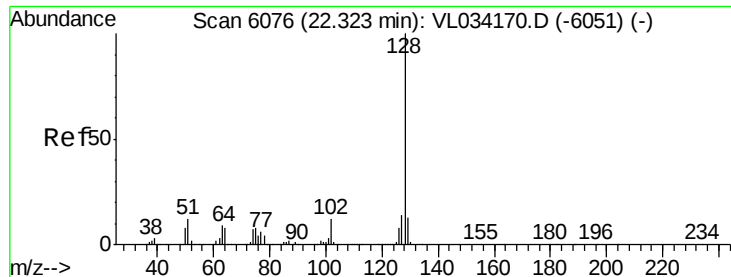
Delta R.T. -0.00 min

Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

Tgt Ion:	225	Resp:	1086403
Ion	Ratio	Lower	Upper
225	100		
223	63.7	51.7	77.5
227	64.8	52.1	78.1





#79

Naphthalene

Concen: 7.900 ppbv

RT: 22.32 min Scan# 6076

Delta R.T. 0.00 min

Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

Instrument :

MSVOA_L

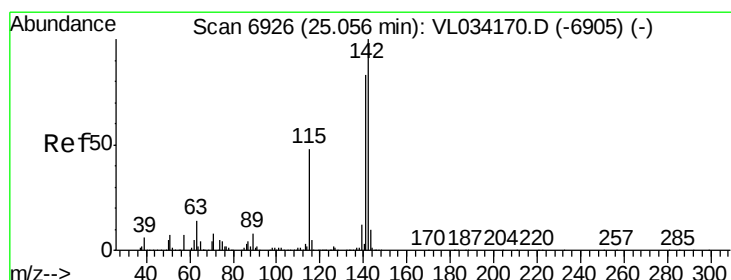
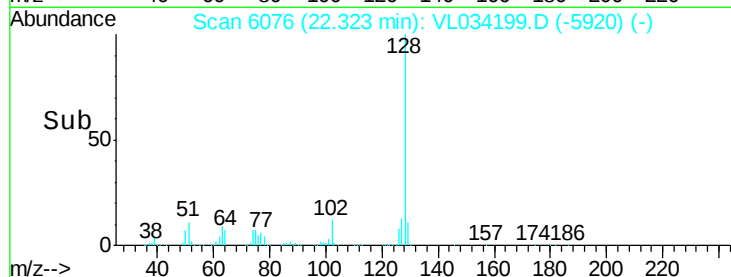
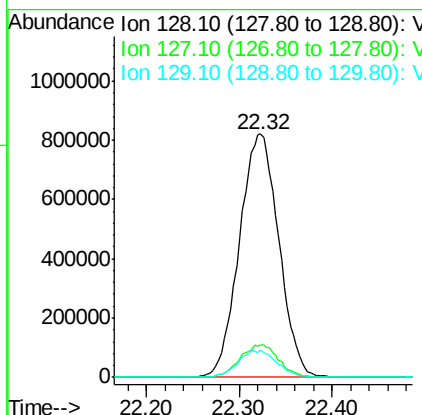
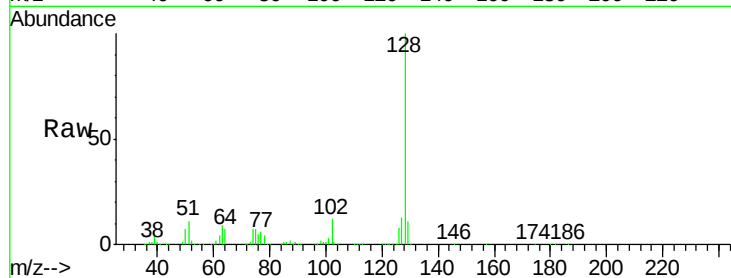
ClientSampleId :

VL0924ABS01

Tot Ion:	128	Resp:	2417423
Ion	Ratio	Lower	Upper
128	100		
127	13.1	11.1	16.7
129	11.4	10.2	15.4

Manual Integrations
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#80

Naphthalene, 2-methyl-

Concen: 7.294 ppbv

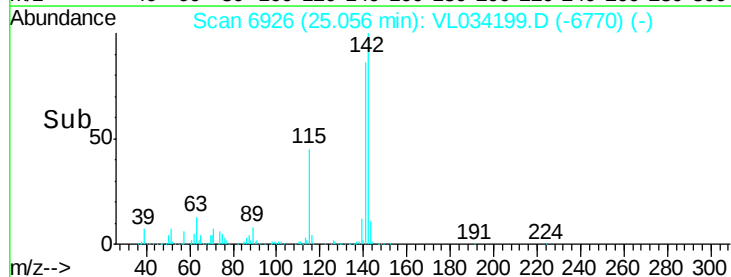
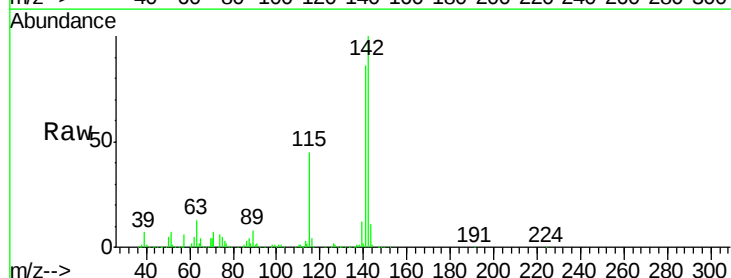
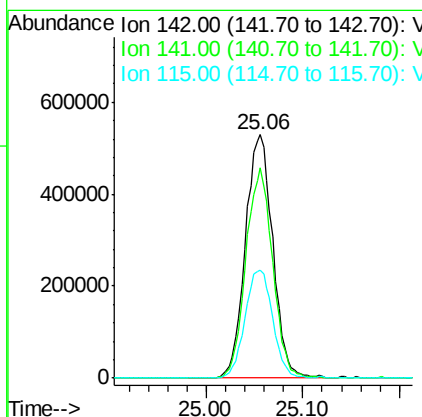
RT: 25.06 min Scan# 6926

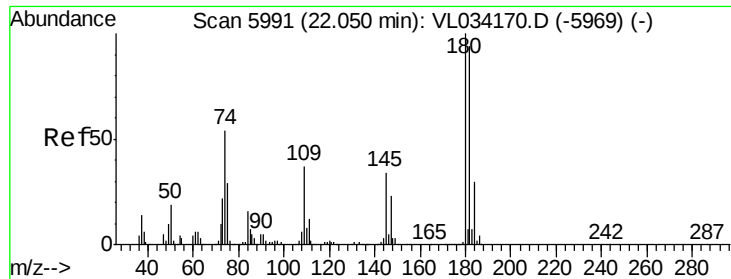
Delta R.T. 0.00 min

Lab File: VL034199.D

Acq: 24 Sep 2019 12:31

Tgt Ion:	142	Resp:	1038008
Ion	Ratio	Lower	Upper
142	100		
141	84.8	67.6	101.4
115	45.4	36.9	55.3





#81
 1,2,4-Trichlorobenzene
 Concen: 7.767 ppbv
 RT: 22.05 min Scan# 5991
 Delta R.T. 0.00 min
 Lab File: VL034199.D
 Acq: 24 Sep 2019 12:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0924ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.8	77.4	116.2
184	31.5	25.0	37.4

Manual Integrations
 APPROVED

MMDadoda
 9/26/2019 12:39:30 AM

