

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL020419\
 Data File : VL033157.D
 Acq On : 4 Feb 2019 15:04
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL020419

Quant Time: Feb 05 00:58:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Feb 04 14:41:39 2019
 QLast Update : Mon Feb 04 14:41:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1133662	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3158337	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3322976	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2449677	9.89	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	1840619	11.026	ppbv	98
3) Chlorodifluoromethane	3.01	51	1168292	9.253	ppbv	98
4) Chloromethane	3.17	50	648841	9.132	ppbv	100
5) Vinyl Chloride	3.29	62	632458	9.019	ppbv	98
6) Bromomethane	3.52	94	375944	9.514	ppbv	99
7) Chloroethane	3.60	64	229768	9.637	ppbv	95
8) Dichlorotetrafluoroethane	3.22	85	1426830	9.325	ppbv	97
9) Propene	3.04	41	589364	9.290	ppbv	100
10) Heptane	8.25	43	1824000	9.230	ppbv	99
11) Trichlorofluoromethane	4.00	101	1556827	9.652	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1008216	9.628	ppbv	98
13) Ethanol	3.64	45	144131	5.763	ppbv	99
14) Bromoethene	3.79	108	484423	10.035	ppbv	99
15) Acetone	3.90	43	1185139	8.781	ppbv	99
16) 1,3-Butadiene	3.36	39	546771	9.979	ppbv	98
17) tert-Butyl alcohol	4.35	59	276720	9.283	ppbv	99
18) 1,1-Dichloroethene	4.35	96	481232	9.986	ppbv	98
19) Isopropyl Alcohol	4.02	45	910425	9.496	ppbv	# 46
20) Methylene Chloride	4.41	84	410464	8.827	ppbv	99
21) Allyl Chloride	4.48	41	824311	10.143	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	468005	9.834	ppbv	97
23) Vinyl Acetate	5.15	43	2196368	10.003	ppbv	100
24) 1,1-Dichloroethane	5.09	63	1461118	9.753	ppbv	99
25) Ethyl Acetate	5.77	43	2428400	8.706	ppbv	100
26) Hexane	5.78	57	1107483	8.487	ppbv	99
27) Carbon Disulfide	4.62	76	1178041	10.486	ppbv	97
28) Methyl tert-Butyl Ether	5.11	73	1822054	9.596	ppbv	100
29) Chloroform	5.85	83	1711445	8.668	ppbv	98
30) Cyclohexane	7.25	84	1146268	9.149	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	1166522	9.380	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	1916916	9.849	ppbv	# 83
34) 2-Butanone	5.33	43	1715637	8.637	ppbv	100
35) Carbon Tetrachloride	7.14	117	820176	4.055	ppbv	99
36) Benzene	7.01	78	2761456	8.649	ppbv	99
37) 1,2-Dichloroethane	6.41	62	1494399	9.164	ppbv	99
38) Trichloroethene	7.96	130	980644	8.457	ppbv	97
39) 1,2-Dichloropropane	7.74	63	1106841	9.038	ppbv	97
40) 1,4-Dioxane	7.95	88	398961	8.352	ppbv	99
41) Tetrahydrofuran	6.15	42	1190484	9.646	ppbv	99
42) Bromodichloromethane	7.92	83	2216910	9.290	ppbv	100
43) Methyl Methacrylate	8.14	69	1154861	9.093	ppbv	99

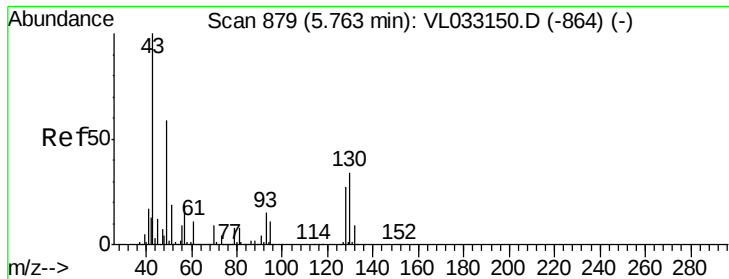
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	4620819	8.624	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1493259	9.527	ppbv	95
46) cis-1,3-Dichloropropene	8.84	75	1714611	9.095	ppbv	99
47) 1,1,2-Trichloroethane	9.62	97	1075529	8.181	ppbv	95
48) Dibromochloromethane	10.45	129	1735944	8.872	ppbv	99
49) Bromoform	13.20	173	1351541	8.369	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2810097	7.816	ppbv	100
51) 2-Hexanone	10.27	43	2243562	7.440	ppbv	100
52) Tetrachloroethene	11.37	164	908477	8.187	ppbv	96
53) Toluene	9.95	91	3158714	8.330	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1670300	8.391	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.28	131	1221236	8.500	ppbv #	54
57) Chlorobenzene	12.30	112	2244822	8.103	ppbv	96
58) Ethyl Benzene	12.87	91	4253556	8.136	ppbv	100
59) m/p-Xylene	13.13	91	3647062	8.519	ppbv #	42
60) o-Xylene	13.85	91	3238734	8.198	ppbv	96
61) Styrene	13.69	104	2567068	8.120	ppbv	98
62) Isopropylbenzene	14.83	105	4525121	8.024	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	2098967	7.406	ppbv	100
64) n-propylbenzene	15.72	120	1157395	7.865	ppbv	94
65) tert-Butylbenzene	16.91	119	3679254	7.274	ppbv	96
66) Benzyl Chloride	17.16	91	1879382	8.180	ppbv	98
67) sec-Butylbenzene	17.46	105	5311900	7.346	ppbv	100
69) p-Isopropyltoluene	17.82	119	4366055	7.307	ppbv	98
70) n-Butylbenzene	18.72	91	4605674	7.084	ppbv	98
71) 2-Chlorotoluene	15.62	91	3464614	7.750	ppbv	97
72) 4-Ethyltoluene	16.00	105	3663893	7.759	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3433858	7.543	ppbv	97
74) 1,2,4-Trimethylbenzene	16.93	105	3358798	7.233	ppbv	98
75) 1,3-Dichlorobenzene	17.17	146	1828582	7.133	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1858994	7.219	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1833837	7.192	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	1347901	10.627	ppbv	99
79) Naphthalene	22.42	128	3905036	7.182	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	1596850	5.760	ppbv	98
81) 1,2,4-Trichlorobenzene	22.14	180	1744821	7.081	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. 0.01 min

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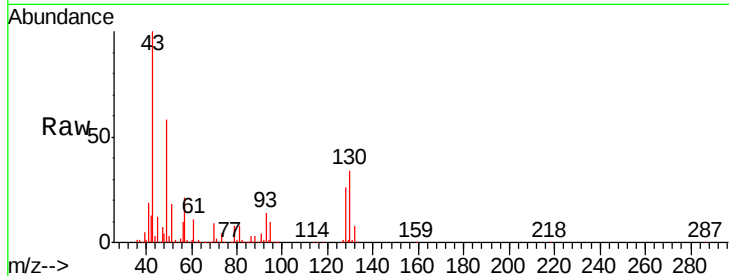
Tgt Ion: 49 Resp: 1133662

Ion Ratio Lower Upper

49 100

128 44.8 23.2 69.5

130 57.1 29.5 88.6



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

800000

600000

400000

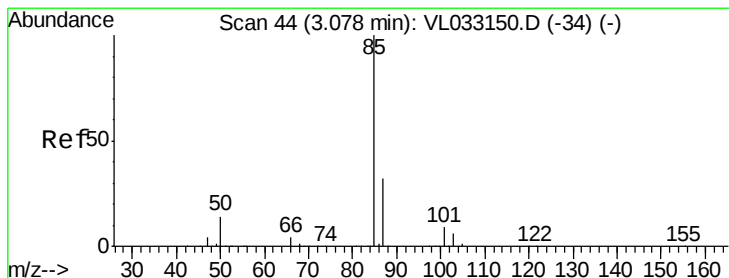
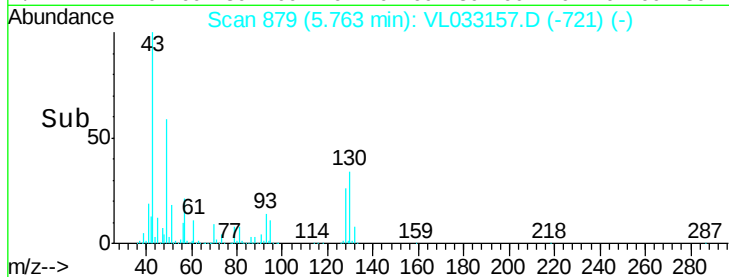
200000

0

5.76

5.70 5.75 5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 11.026 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033157.D

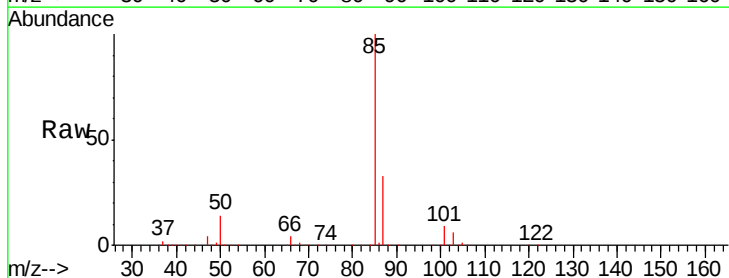
Acq: 4 Feb 2019 15:04

Tgt Ion: 85 Resp: 1840619

Ion Ratio Lower Upper

85 100

87 33.0 27.4 41.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

1500000

1000000

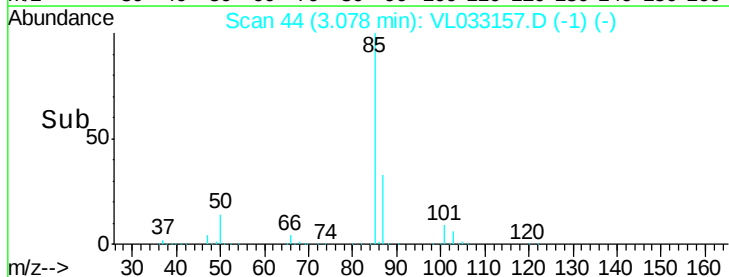
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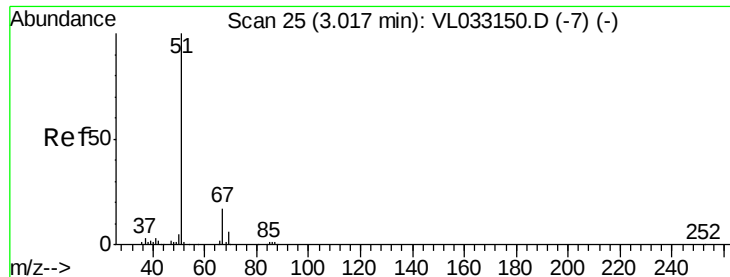
0

3.08

3.05 3.10

Time-->





#3

Chlorodifluoromethane

Concen: 9.253 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.00 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

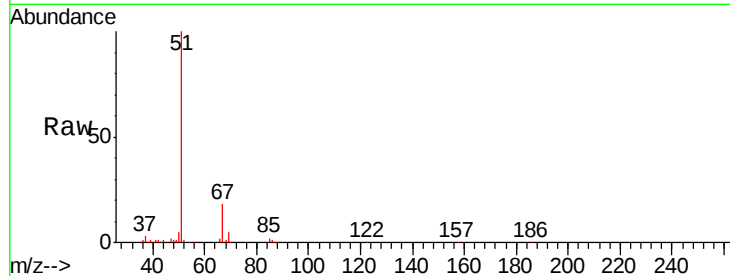
ICVVL020419

Tgt Ion: 51 Resp: 1168292

Ion Ratio Lower Upper

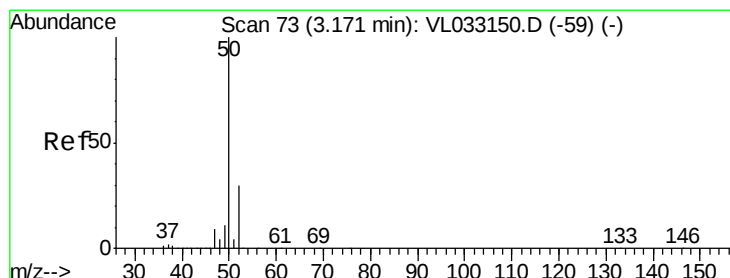
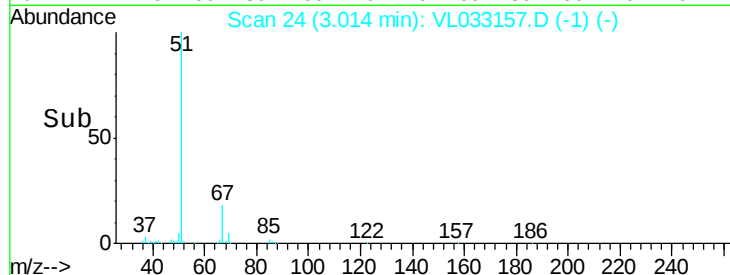
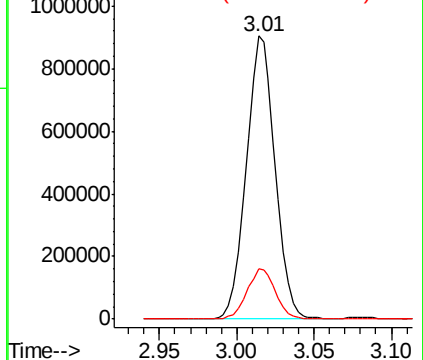
51 100

67 17.6 13.4 20.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.132 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033157.D

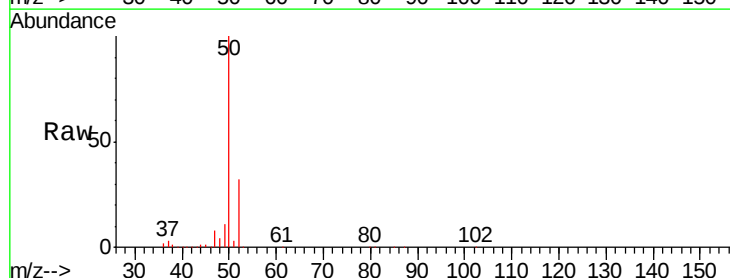
Acq: 4 Feb 2019 15:04

Tgt Ion: 50 Resp: 648841

Ion Ratio Lower Upper

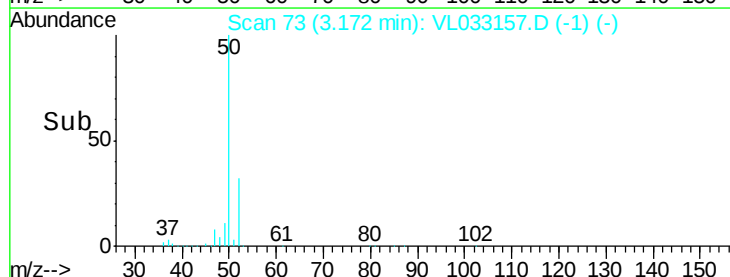
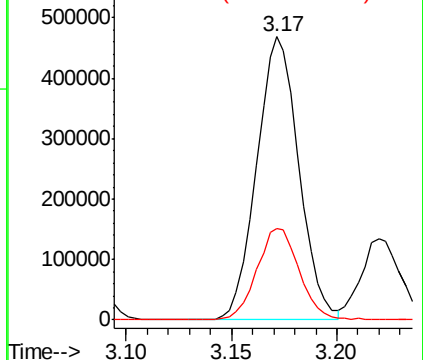
50 100

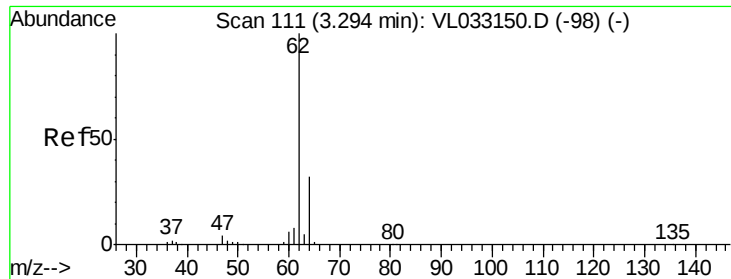
52 32.3 25.7 38.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.019 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

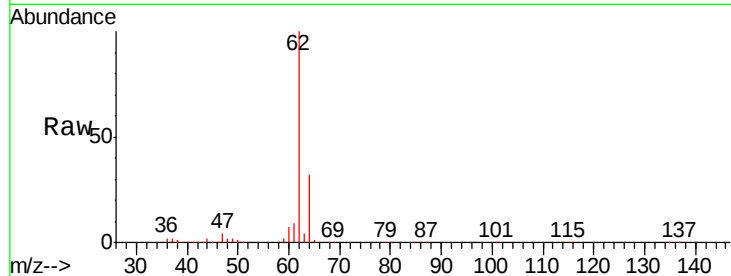
ICVVL020419

Tgt Ion: 62 Resp: 632458

Ion Ratio Lower Upper

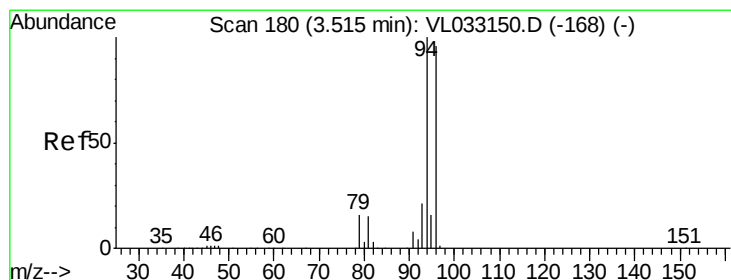
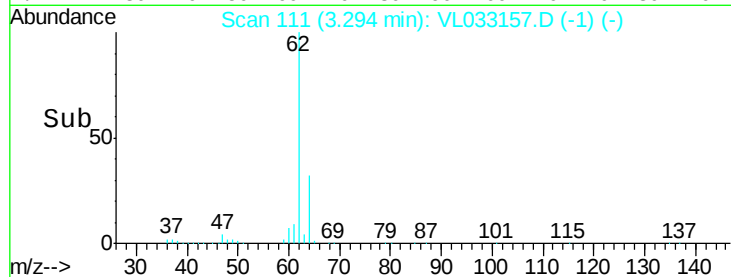
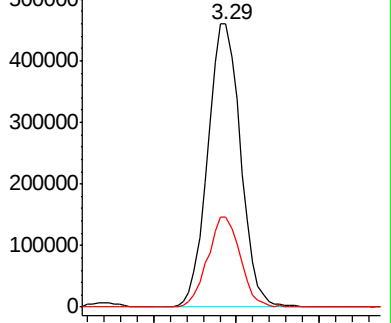
62 100

64 31.7 26.3 39.5



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.514 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033157.D

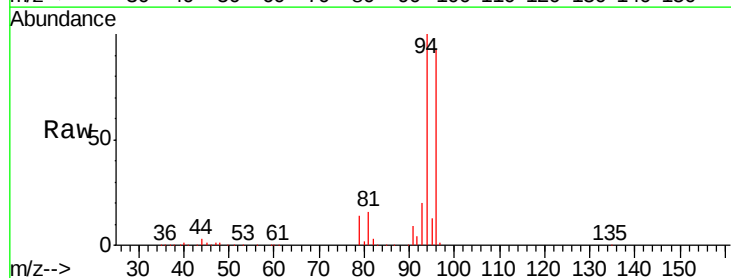
Acq: 4 Feb 2019 15:04

Tgt Ion: 94 Resp: 375944

Ion Ratio Lower Upper

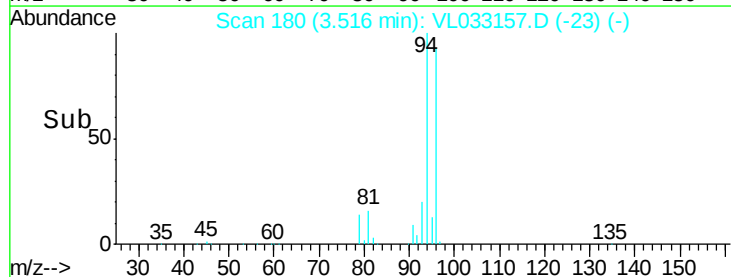
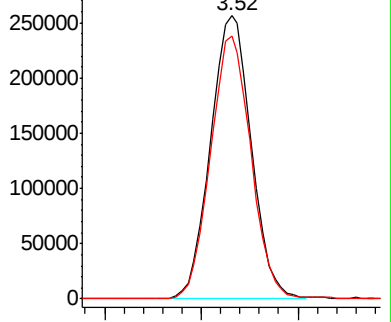
94 100

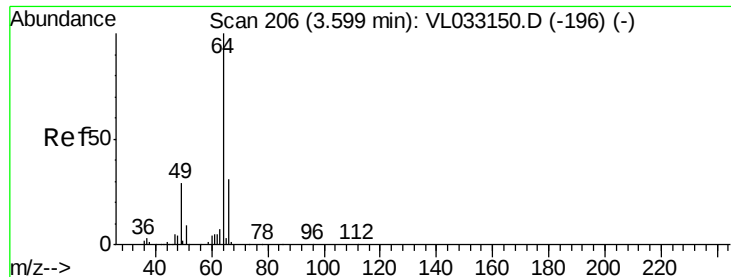
96 93.1 74.0 111.0



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.637 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.01 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

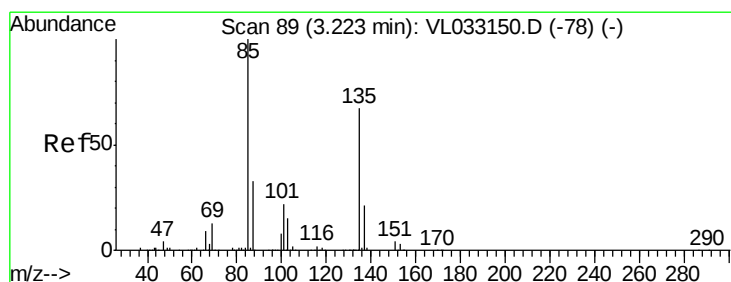
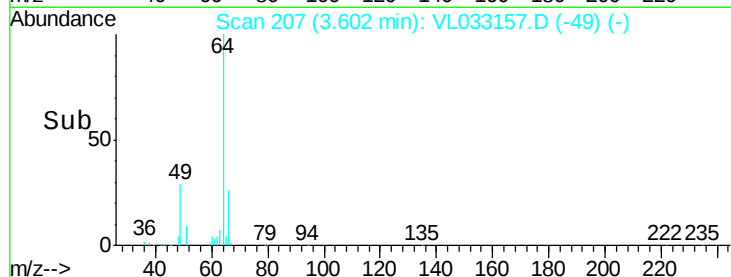
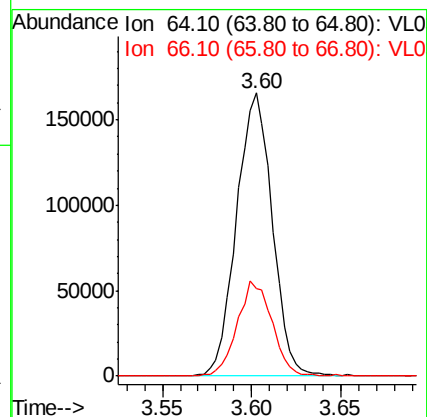
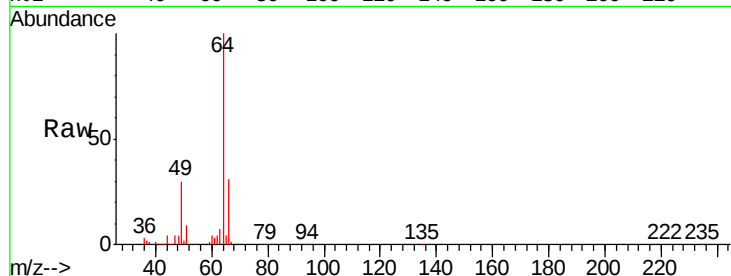
ICVVL020419

Tgt Ion: 64 Resp: 229768

Ion Ratio Lower Upper

64 100

66 30.7 22.3 33.5



#8

Dichlorotetrafluoroethane

Concen: 9.325 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.00 min

Lab File: VL033157.D

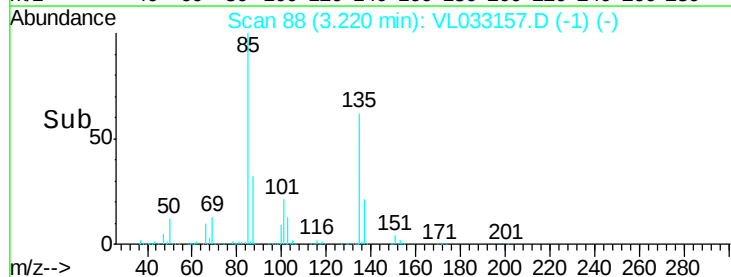
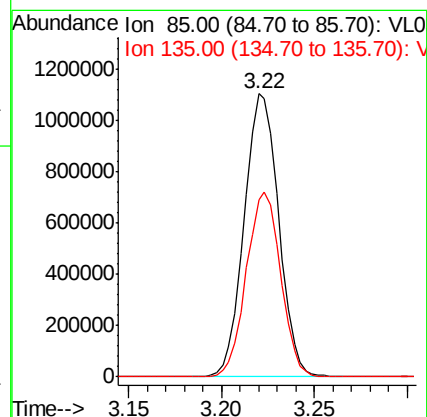
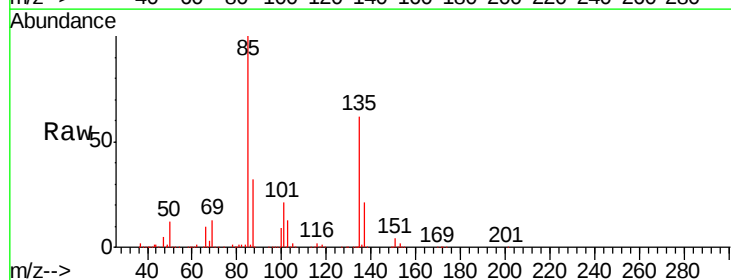
Acq: 4 Feb 2019 15:04

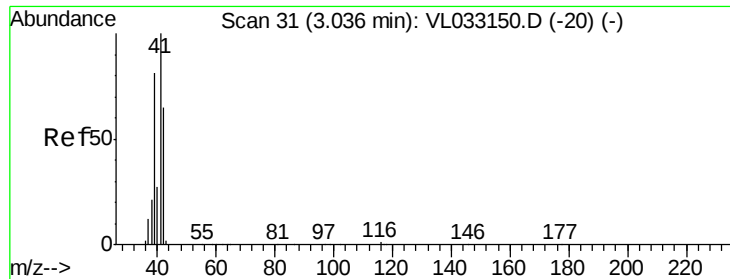
Tgt Ion: 85 Resp: 1426830

Ion Ratio Lower Upper

85 100

135 65.3 54.0 81.0





#9

Propene

Concen: 9.290 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

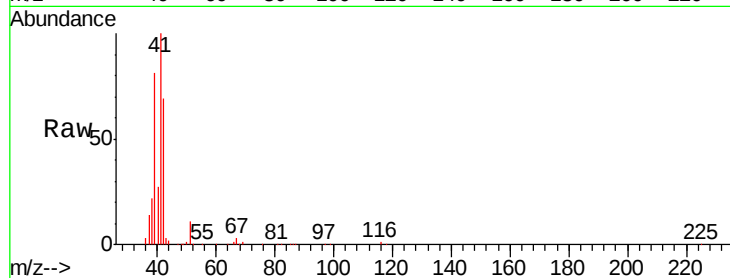
ICVVL020419

Tgt Ion: 41 Resp: 589364

Ion Ratio Lower Upper

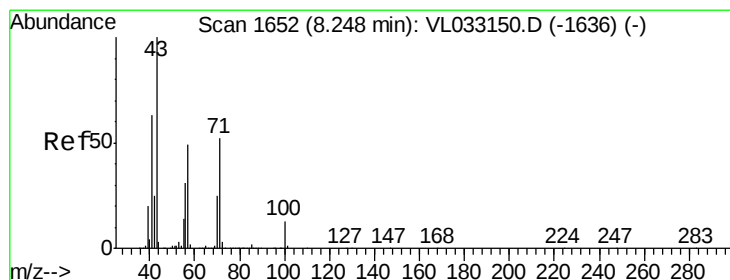
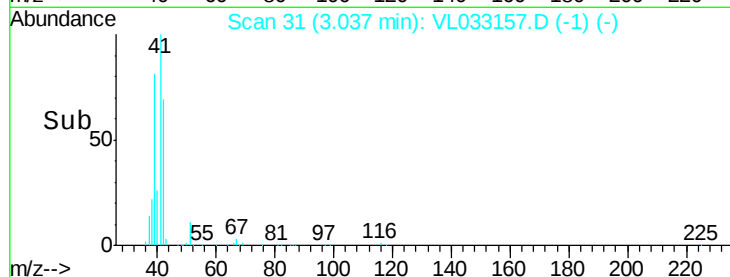
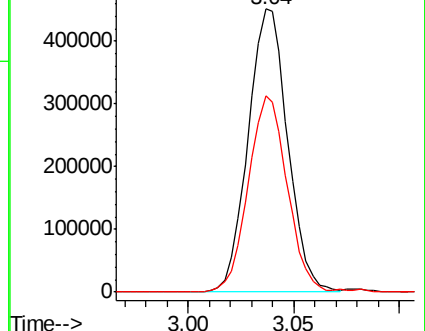
41 100

42 69.0 55.1 82.7



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 9.230 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. 0.00 min

Lab File: VL033157.D

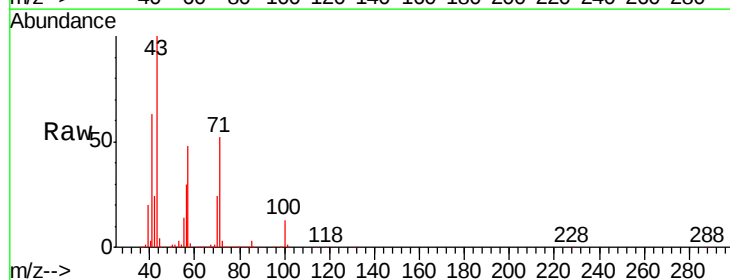
Acq: 4 Feb 2019 15:04

Tgt Ion: 43 Resp: 1824000

Ion Ratio Lower Upper

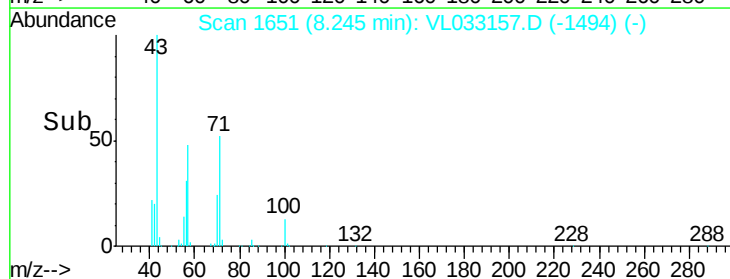
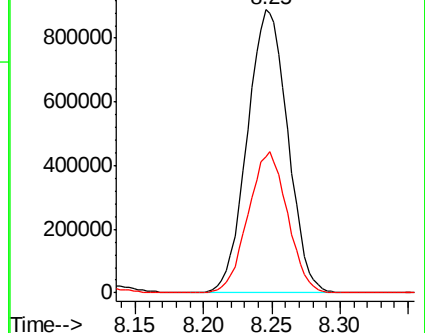
43 100

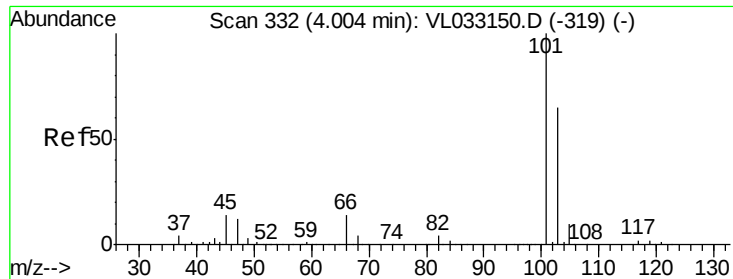
57 48.6 39.3 58.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 9.652 ppbv

RT: 4.00 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

Instrument :

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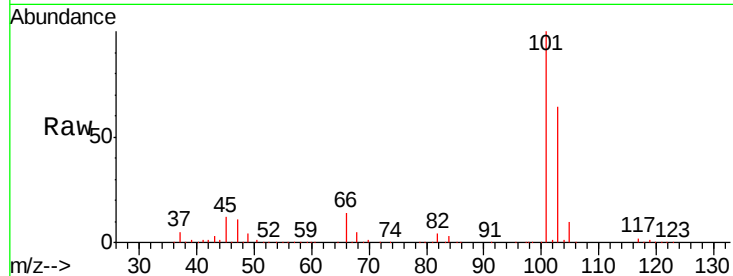
ICVVL020419

Tgt Ion:101 Resp: 1556827

Ion Ratio Lower Upper

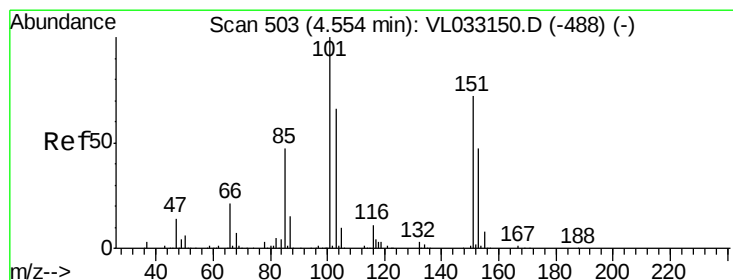
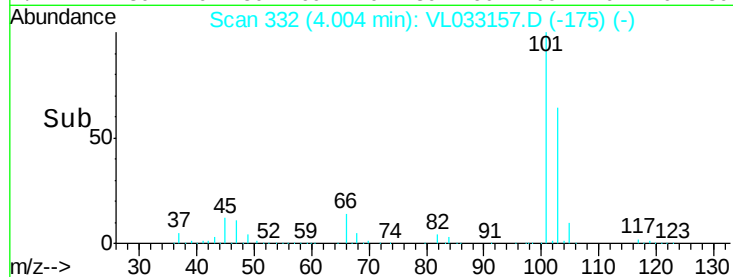
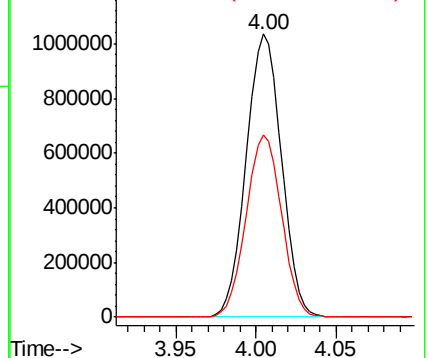
101 100

103 64.4 51.3 76.9



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: 9.628 ppbv

RT: 4.55 min Scan# 503

Delta R.T. 0.01 min

Lab File: VL033157.D

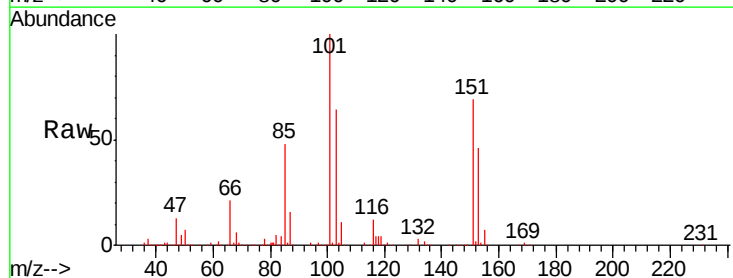
Acq: 4 Feb 2019 15:04

Tgt Ion:101 Resp: 1008216

Ion Ratio Lower Upper

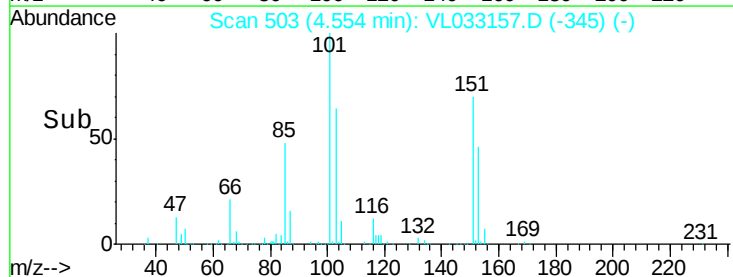
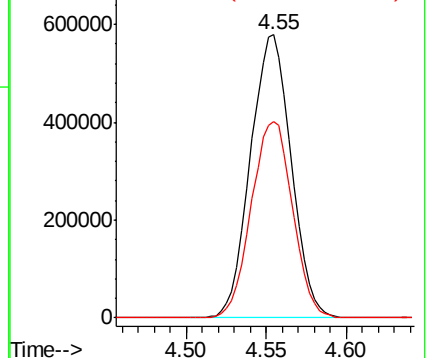
101 100

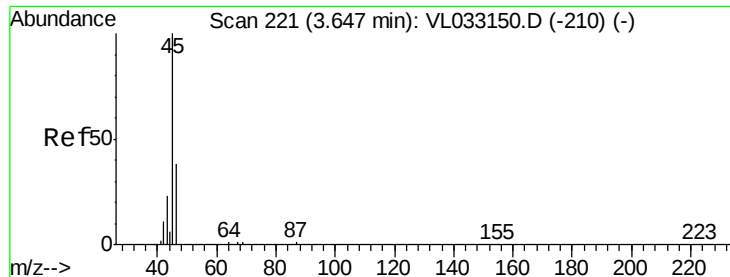
151 70.6 57.9 86.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 5.763 ppbv

RT: 3.64 min Scan# 220

Delta R.T. 0.00 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

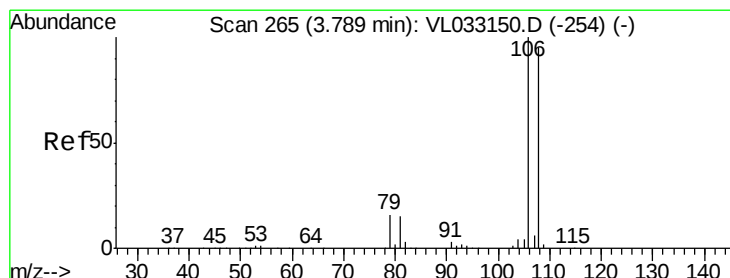
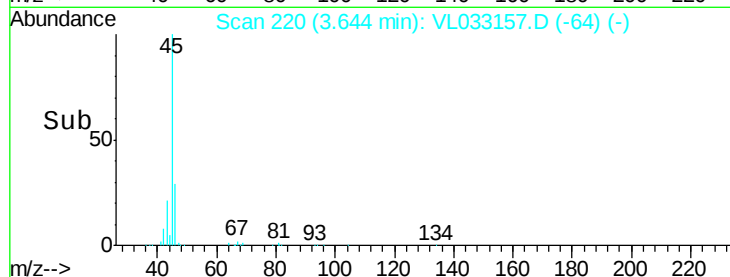
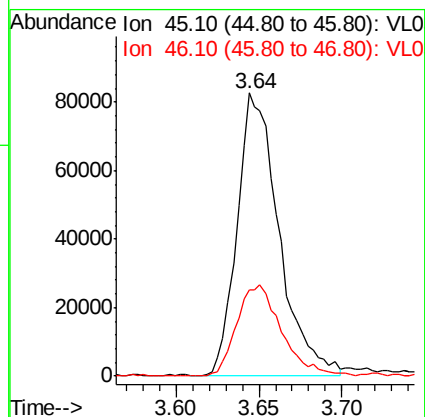
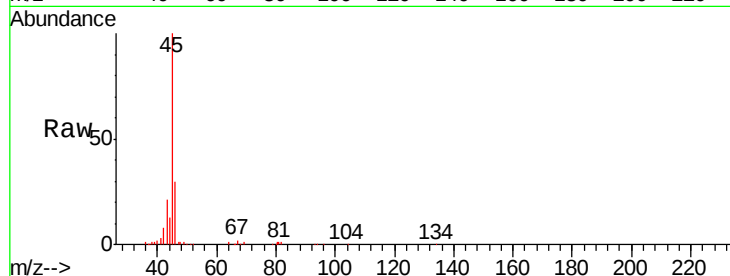
ICVVL020419

Tgt Ion: 45 Resp: 144131

Ion Ratio Lower Upper

45 100

46 35.6 14.0 56.2



#14

Bromoethene

Concen: 10.035 ppbv

RT: 3.79 min Scan# 265

Delta R.T. 0.01 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

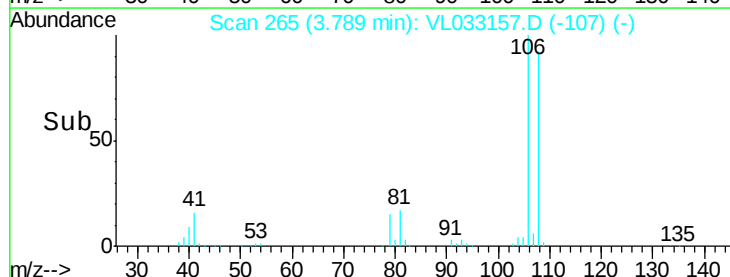
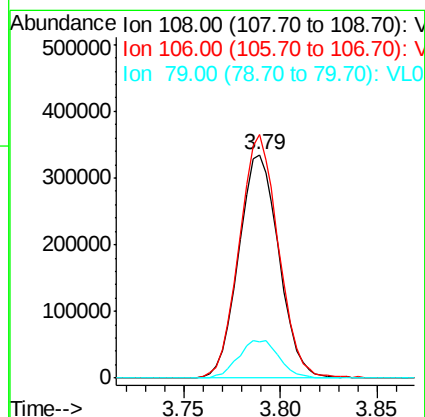
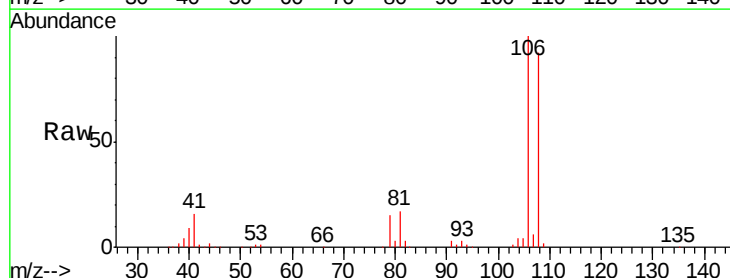
Tgt Ion: 108 Resp: 484423

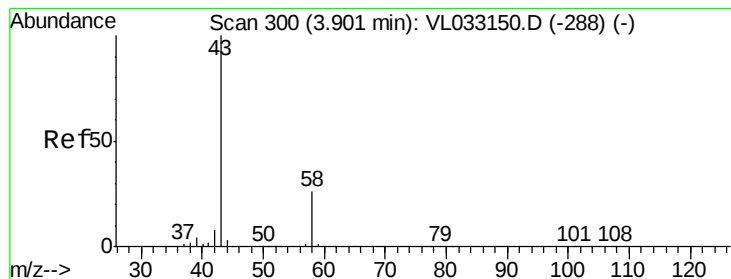
Ion Ratio Lower Upper

108 100

106 106.2 85.6 128.4

79 17.3 14.2 21.4





#15

Acetone

Concen: 8.781 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

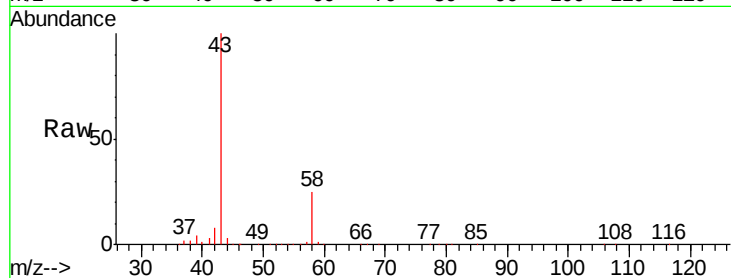
ICVVL020419

Tgt Ion: 43 Resp: 1185139

Ion Ratio Lower Upper

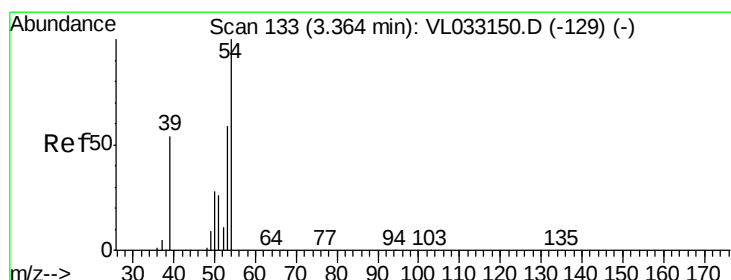
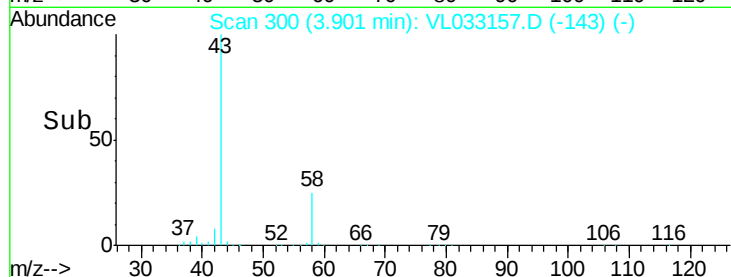
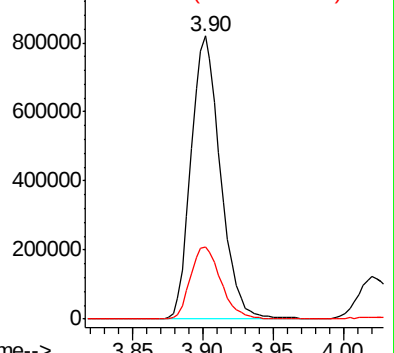
43 100

58 26.6 21.8 32.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 9.979 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL033157.D

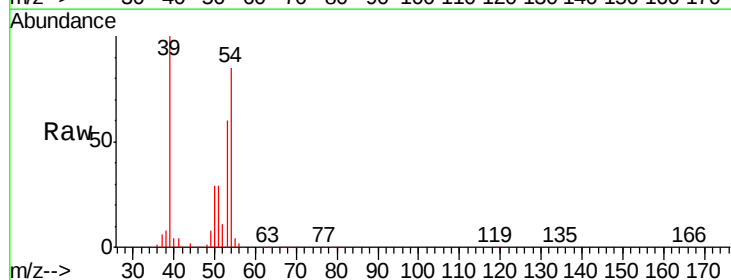
Acq: 4 Feb 2019 15:04

Tgt Ion: 39 Resp: 546771

Ion Ratio Lower Upper

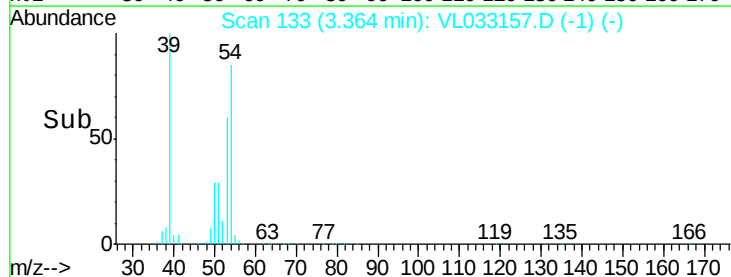
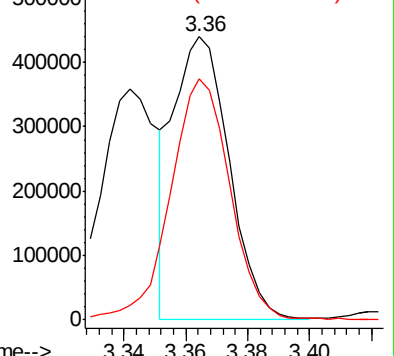
39 100

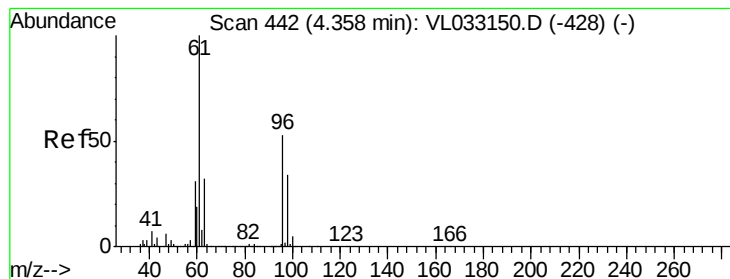
54 92.3 75.0 112.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 9.283 ppbv

RT: 4.35 min Scan# 441

Delta R.T. 0.00 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

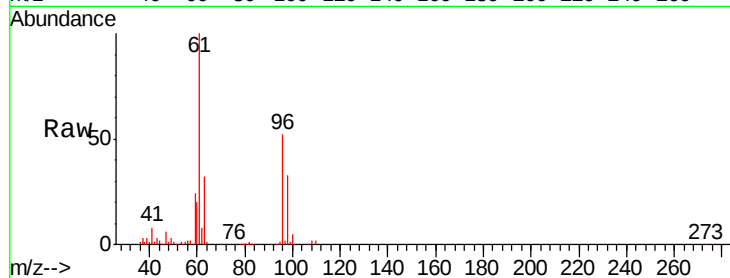
ICVVL020419

Tgt Ion: 59 Resp: 276720

Ion Ratio Lower Upper

59 100

57 9.6 8.0 12.0



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.35

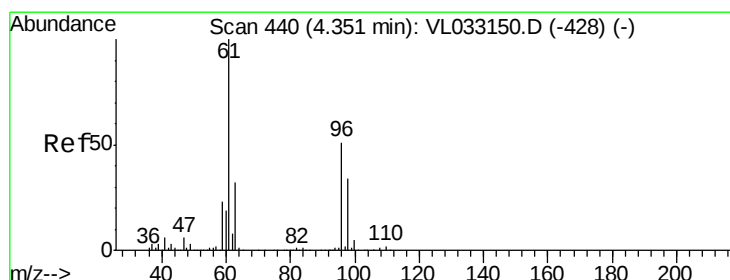
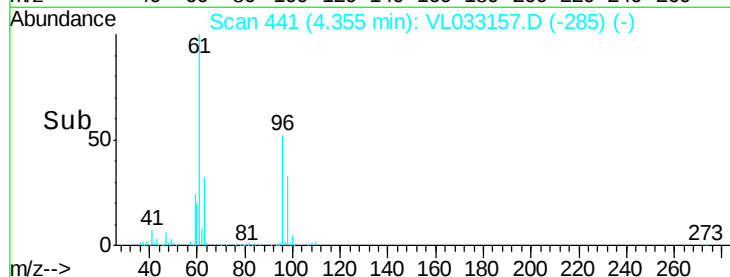
150000

100000

50000

0

Time-->



#18

1,1-Dichloroethene

Concen: 9.986 ppbv

RT: 4.35 min Scan# 440

Delta R.T. 0.00 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

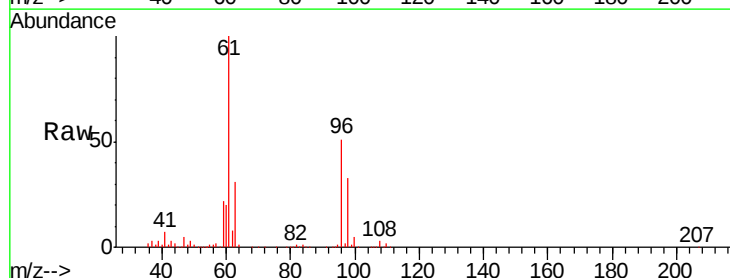
Tgt Ion: 96 Resp: 481232

Ion Ratio Lower Upper

96 100

61 197.5 158.5 237.7

98 65.1 47.8 71.6



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

800000

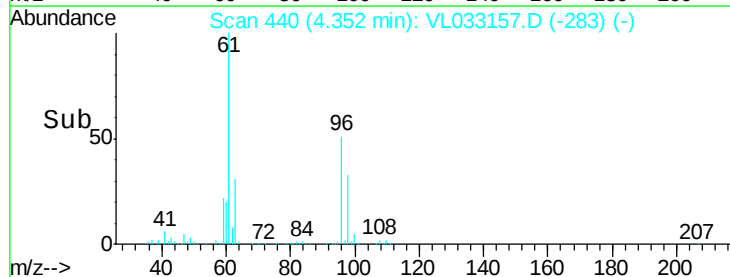
600000

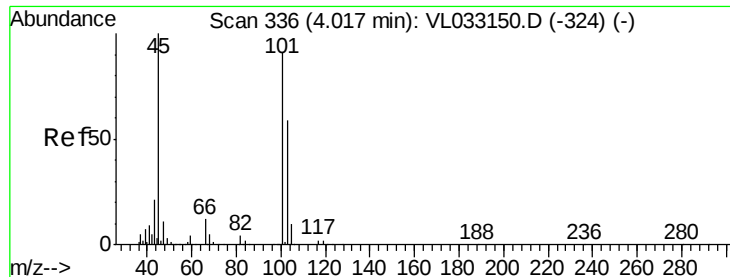
400000

200000

0

Time-->





#19

Isopropyl Alcohol

Concen: 9.496 ppbv

RT: 4.02 min Scan# 338

Delta R.T. 0.01 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

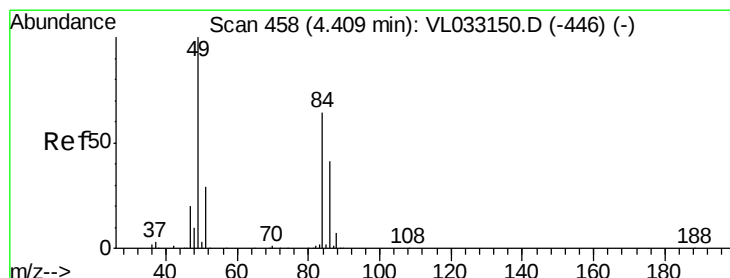
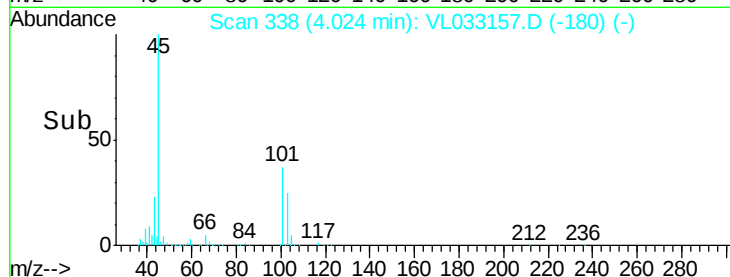
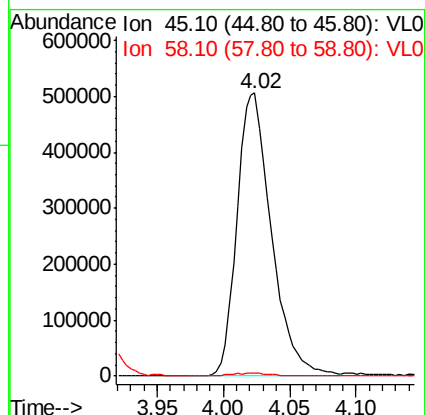
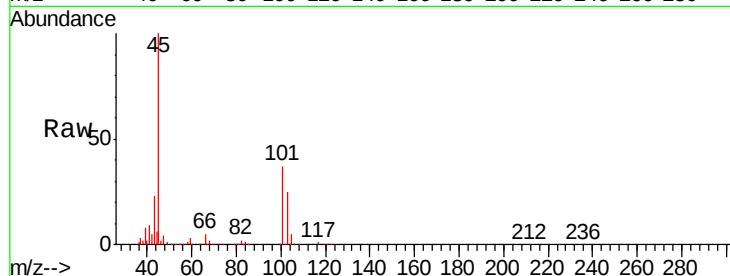
ICVVL020419

Tgt Ion: 45 Resp: 910425

Ion Ratio Lower Upper

45 100

58 1.3 25.1 37.7#



#20

Methylene Chloride

Concen: 8.827 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.00 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

Tgt Ion: 84 Resp: 410464

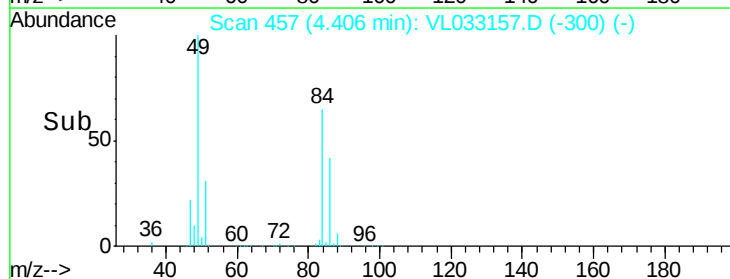
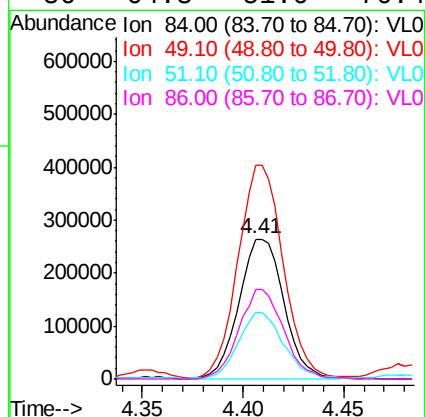
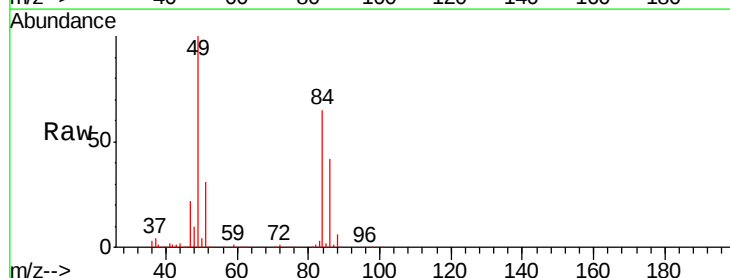
Ion Ratio Lower Upper

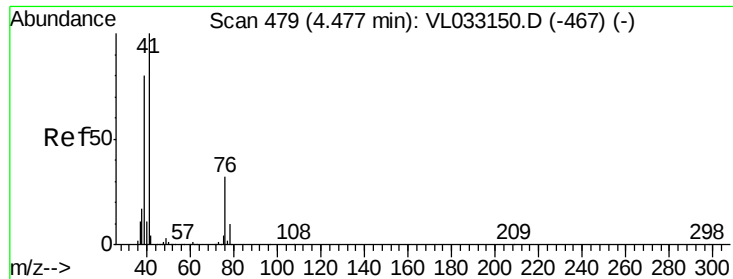
84 100

49 152.6 121.1 181.7

51 46.9 37.5 56.3

86 64.3 51.0 76.4

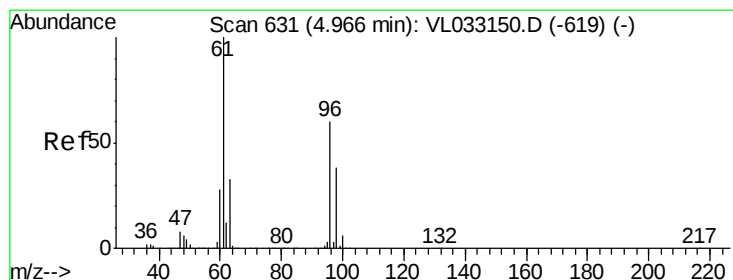
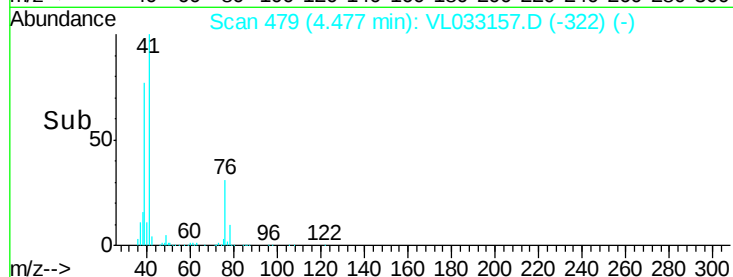
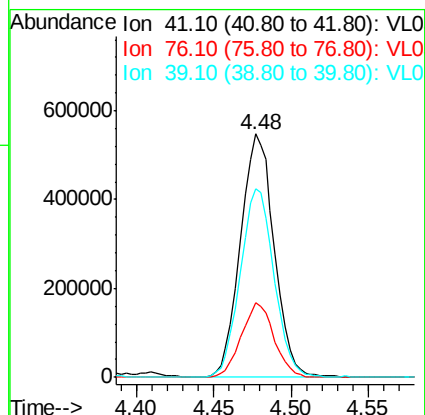
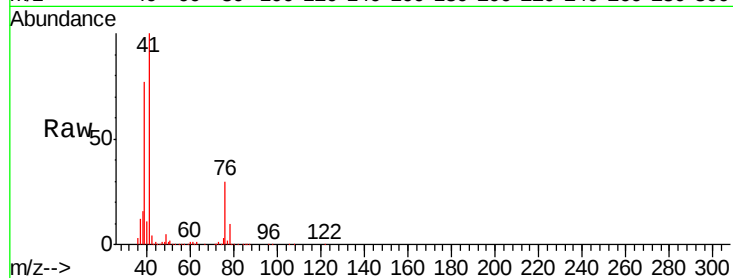




#21
 Allyl Chloride
 Concen: 10.143 ppbv
 RT: 4.48 min Scan# 479
 Delta R.T. 0.00 min
 Lab File: VL033157.D
 Acq: 4 Feb 2019 15:04

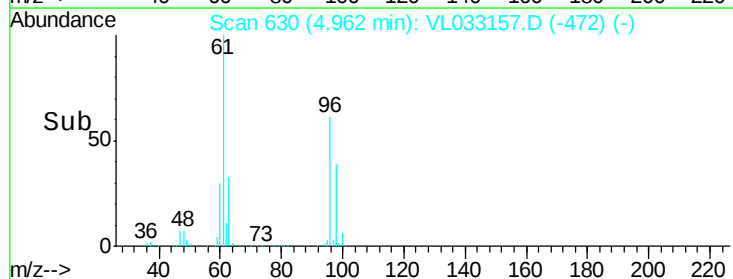
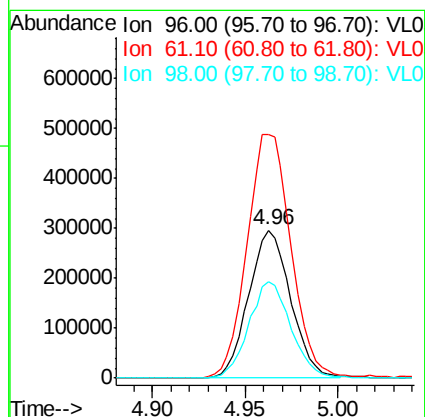
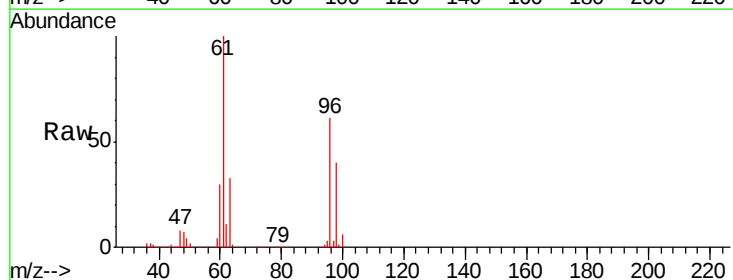
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL020419

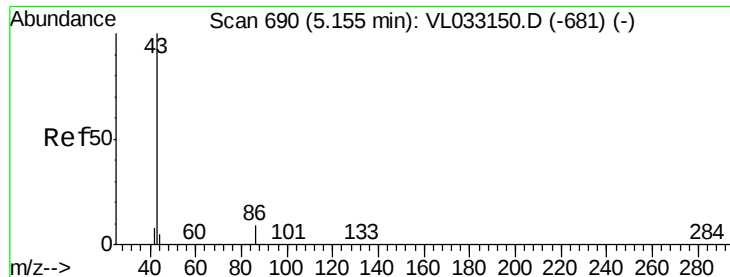
Tgt Ion: 41 Resp: 824311
 Ion Ratio Lower Upper
 41 100
 76 29.9 23.2 34.8
 39 78.4 61.8 92.6



#22
 trans-1,2-Dichloroethene
 Concen: 9.834 ppbv
 RT: 4.96 min Scan# 630
 Delta R.T. 0.01 min
 Lab File: VL033157.D
 Acq: 4 Feb 2019 15:04

Tgt Ion: 96 Resp: 468005
 Ion Ratio Lower Upper
 96 100
 61 164.7 134.5 201.7
 98 65.1 50.2 75.2





#23

Vinyl Acetate

Concen: 10.003 ppbv

RT: 5.15 min Scan# 689

Delta R.T. 0.00 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

ICVVL020419

Tgt Ion: 43 Resp: 2196368

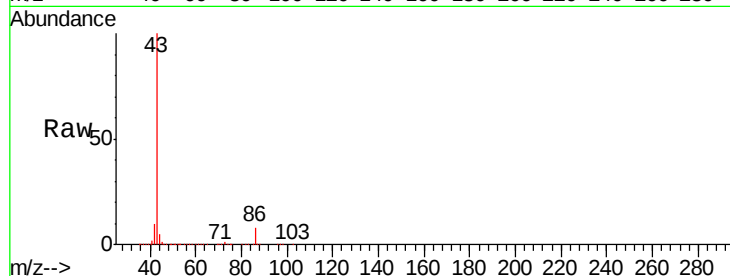
Ion Ratio Lower Upper

43 100

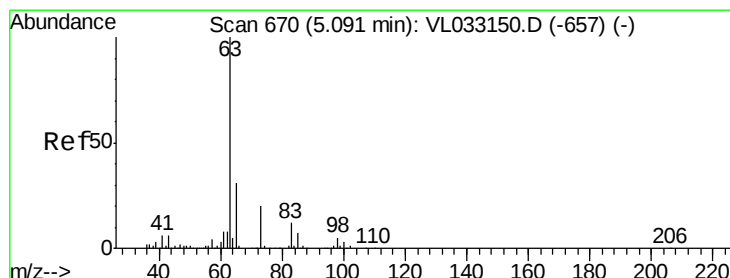
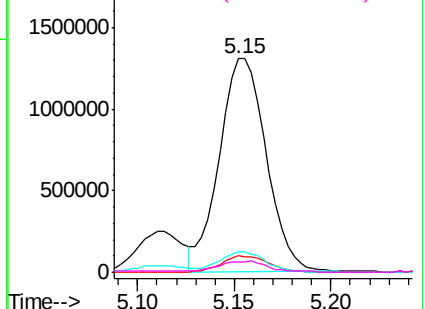
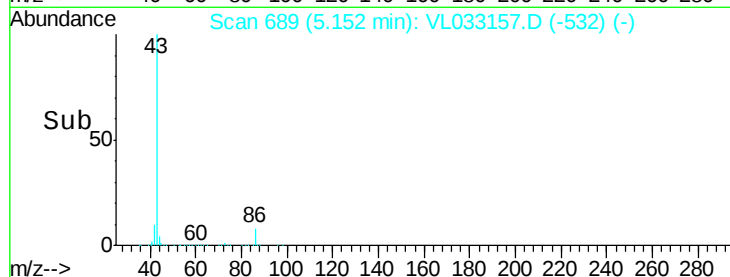
86 7.8 6.2 9.4

42 9.6 7.7 11.5

44 4.7 3.8 5.8



Abundance Ion 43.10 (42.80 to 43.80): VL0
 2000000 Ion 86.10 (85.80 to 86.80): VL0
 1500000 Ion 42.10 (41.80 to 42.80): VL0
 1000000 Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.753 ppbv

RT: 5.09 min Scan# 670

Delta R.T. 0.00 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

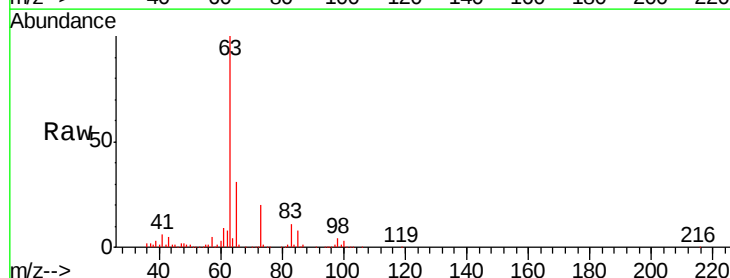
Tgt Ion: 63 Resp: 1461118

Ion Ratio Lower Upper

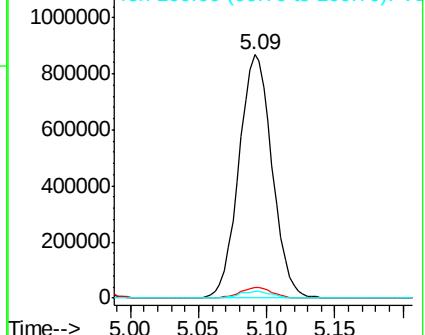
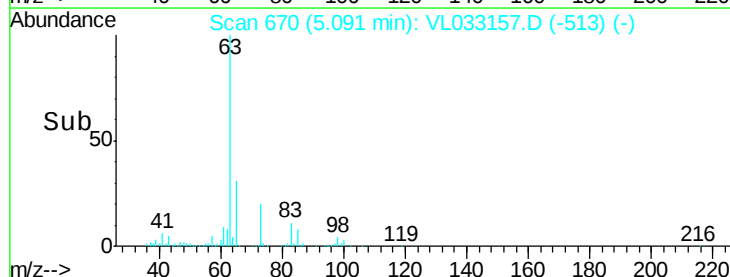
63 100

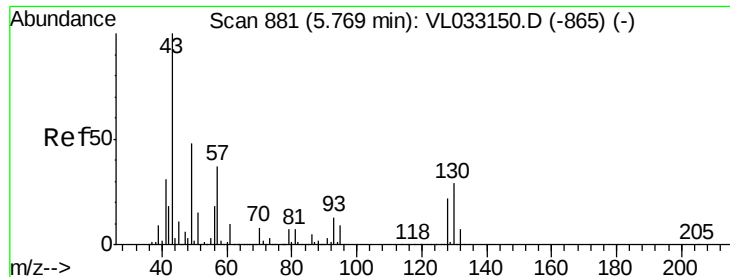
98 4.2 2.3 6.9

100 2.7 1.3 3.9



Abundance Ion 63.10 (62.80 to 63.80): VL0
 1200000 Ion 98.00 (97.70 to 98.70): VL0
 1000000 Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 8.706 ppbv

RT: 5.77 min Scan# 880

Delta R.T. 0.00 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

ICVVL020419

Tgt Ion: 43 Resp: 2428400

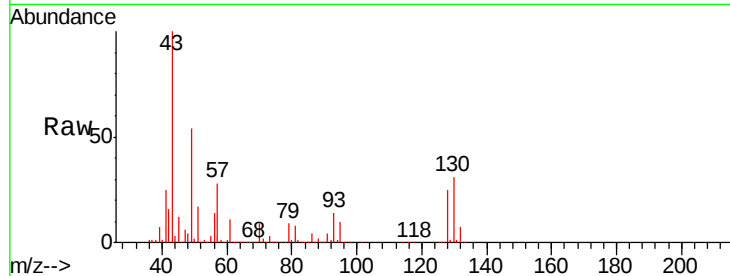
Ion Ratio Lower Upper

43 100

45 9.9 8.0 12.0

61 9.4 7.4 11.2

70 7.4 5.9 8.9

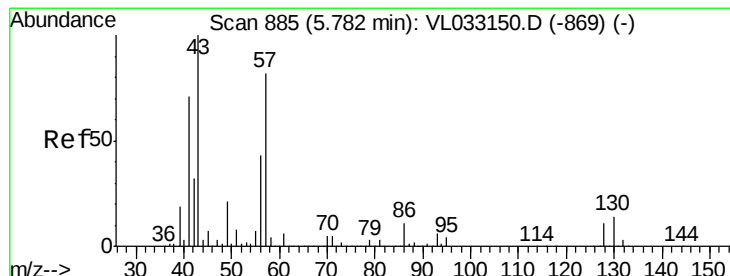
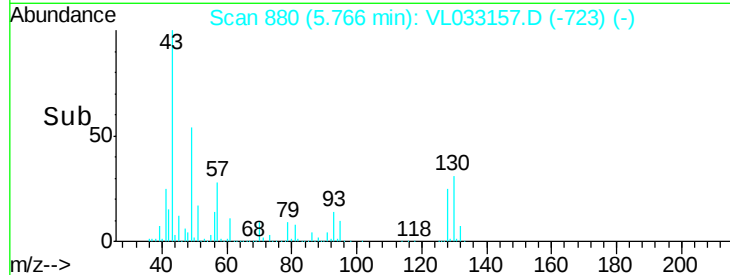
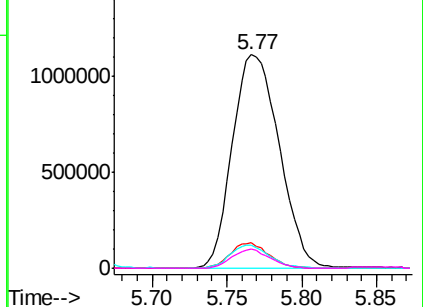


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.487 ppbv

RT: 5.78 min Scan# 884

Delta R.T. 0.00 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

Tgt Ion: 57 Resp: 1107483

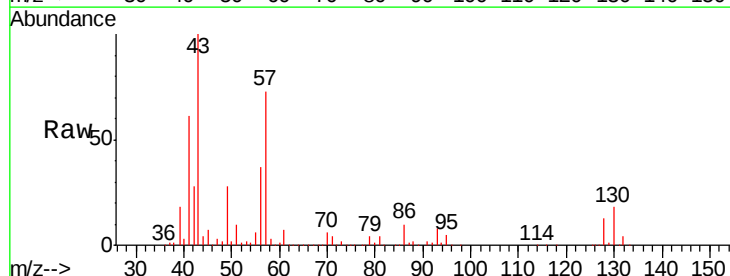
Ion Ratio Lower Upper

57 100

41 86.7 69.5 104.3

43 220.7 175.5 263.3

56 51.8 41.6 62.4

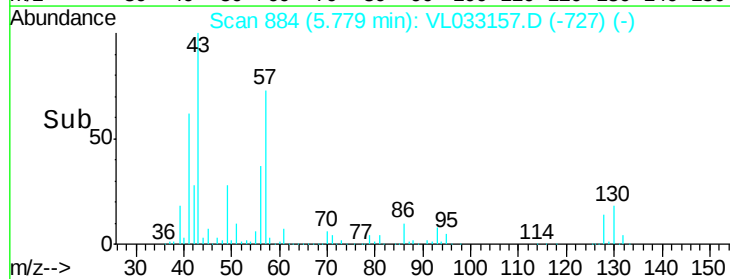
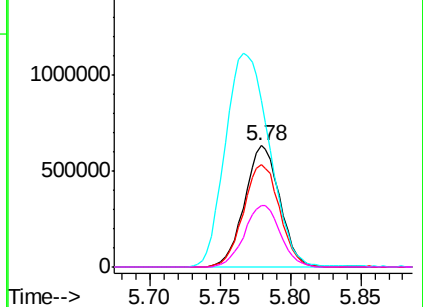


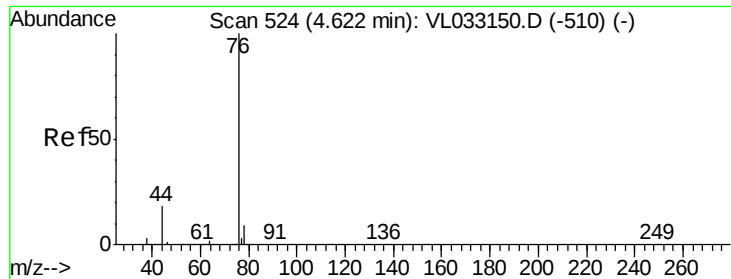
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 10.486 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.01 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

ICVVL020419

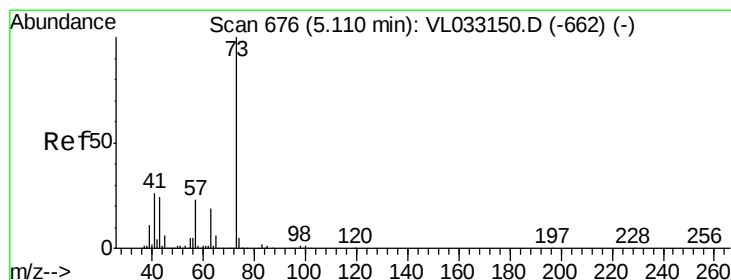
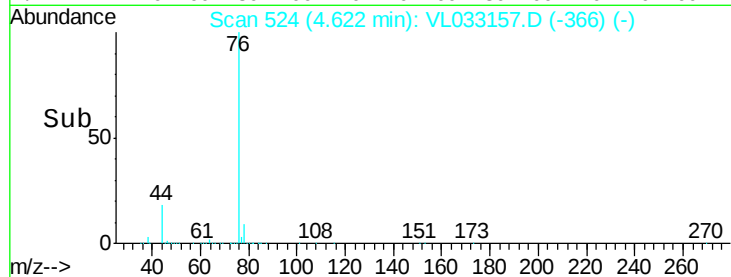
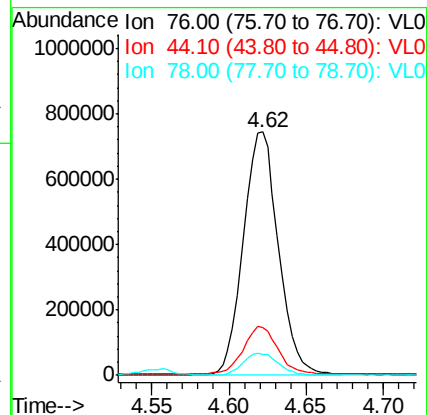
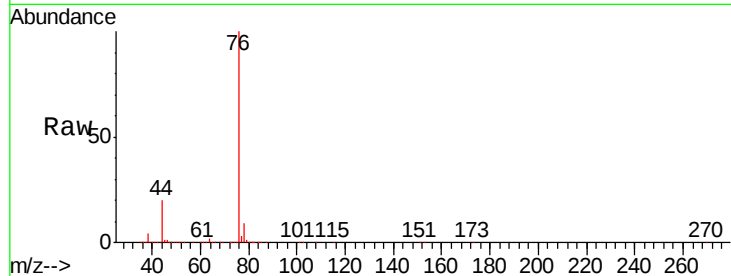
Tgt Ion: 76 Resp: 1178041

Ion Ratio Lower Upper

76 100

44 19.7 17.1 25.7

78 9.2 7.2 10.8



#28

Methyl tert-Butyl Ether

Concen: 9.596 ppbv

RT: 5.11 min Scan# 676

Delta R.T. 0.01 min

Lab File: VL033157.D

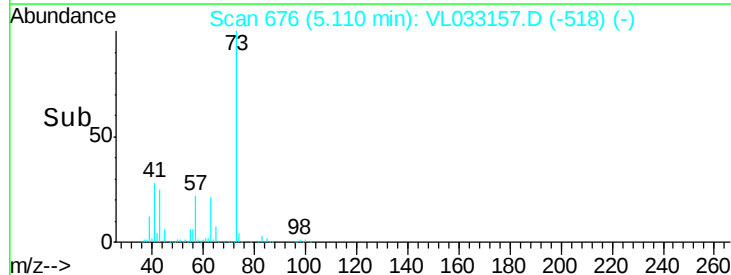
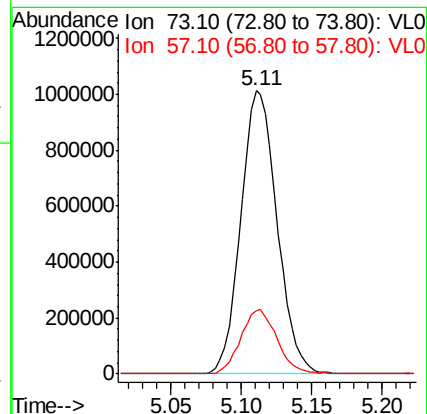
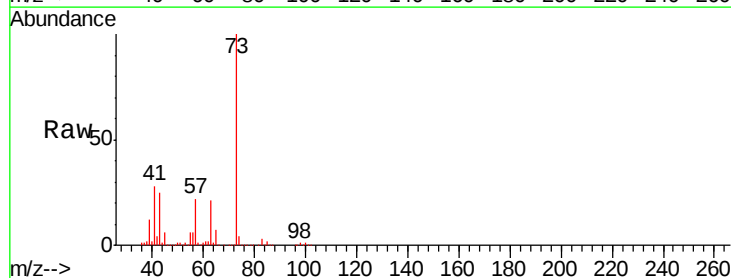
Acq: 4 Feb 2019 15:04

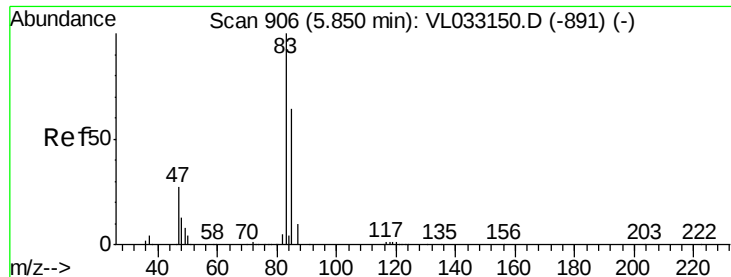
Tgt Ion: 73 Resp: 1822054

Ion Ratio Lower Upper

73 100

57 22.8 18.3 27.5





#29

Chloroform

Concen: 8.668 ppbv

RT: 5.85 min Scan# 906

Delta R.T. 0.01 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

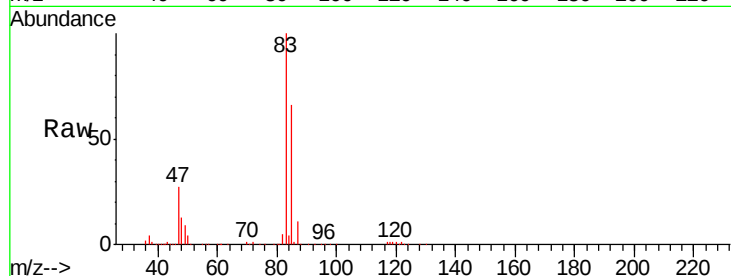
ICVVL020419

Tgt Ion: 83 Resp: 1711445

Ion Ratio Lower Upper

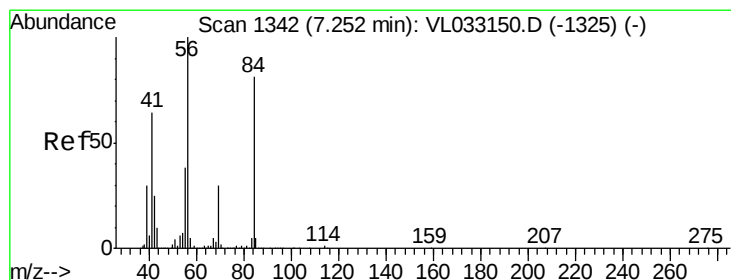
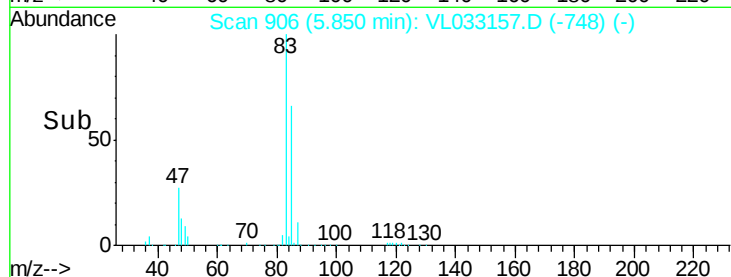
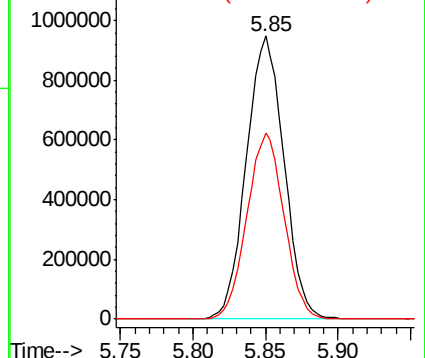
83 100

85 65.8 51.6 77.4



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 9.149 ppbv

RT: 7.25 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

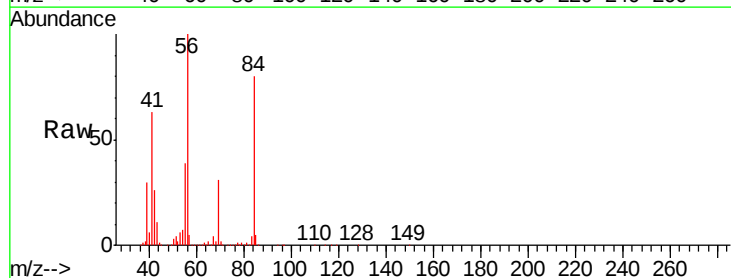
Tgt Ion: 84 Resp: 1146268

Ion Ratio Lower Upper

84 100

56 136.8 109.0 163.4

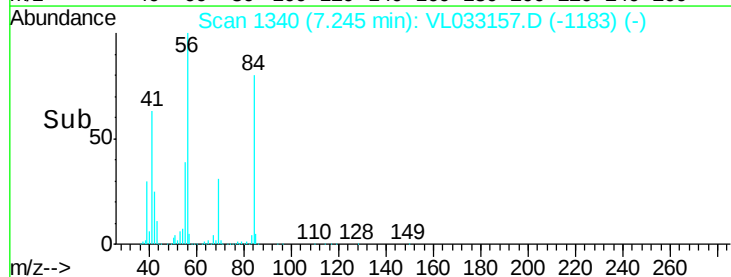
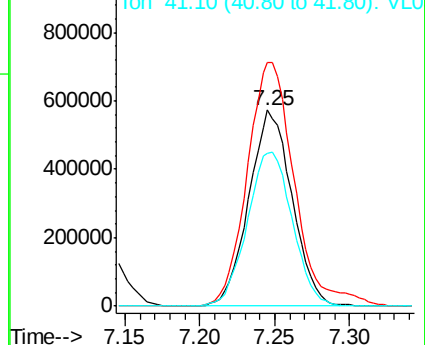
41 82.2 65.3 97.9

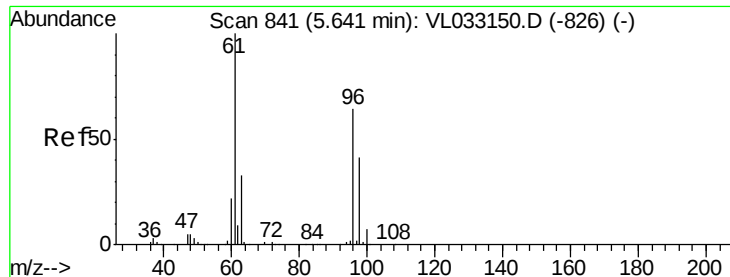


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0



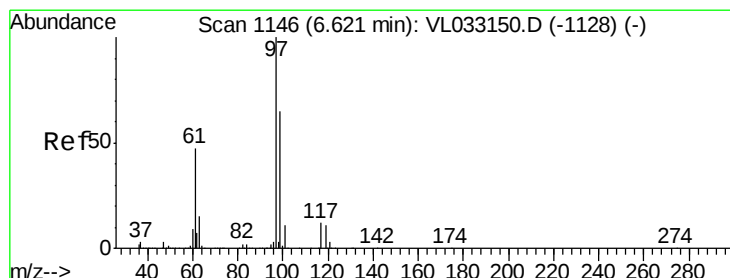
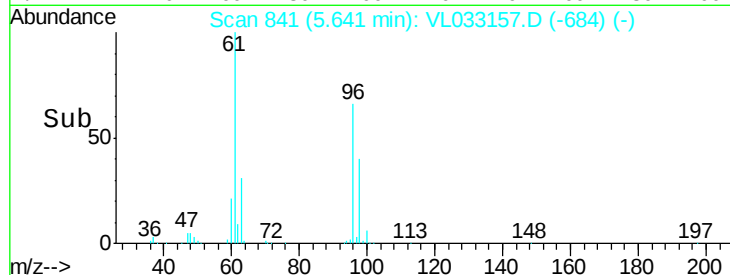
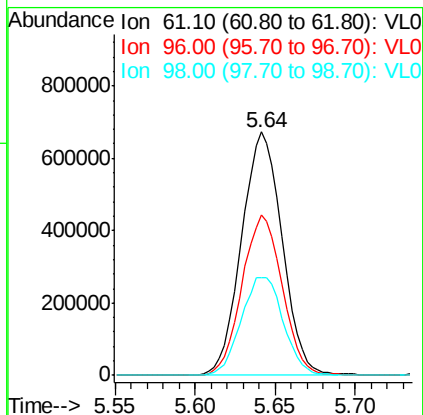
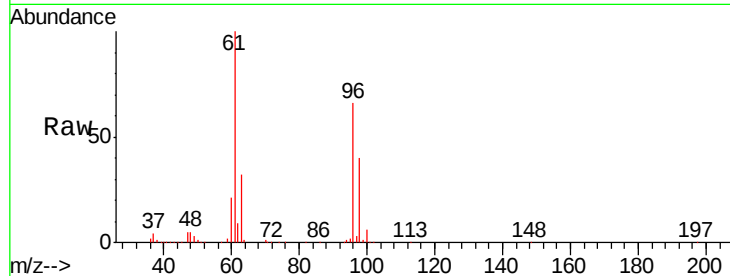


#31

cis-1,2-Dichloroethene
 Concen: 9.380 ppbv
 RT: 5.64 min Scan# 841
 Delta R.T. 0.00 min
 Lab File: VL033157.D
 Acq: 4 Feb 2019 15:04

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL020419

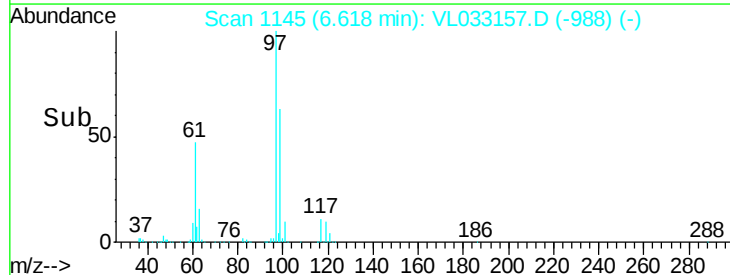
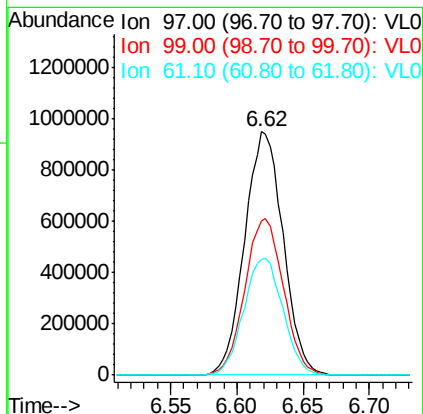
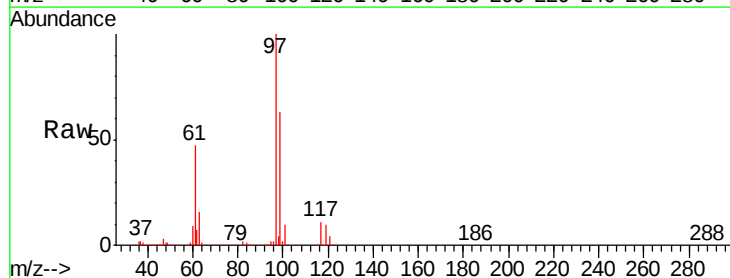
Tgt Ion: 61 Resp: 1166522
 Ion Ratio Lower Upper
 61 100
 96 65.6 53.3 79.9
 98 40.2 33.7 50.5

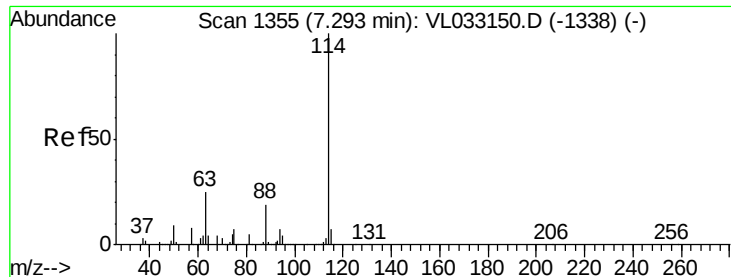


#32

1,1,1-Trichloroethane
 Concen: 9.849 ppbv
 RT: 6.62 min Scan# 1145
 Delta R.T. 0.00 min
 Lab File: VL033157.D
 Acq: 4 Feb 2019 15:04

Tgt Ion: 97 Resp: 1916916
 Ion Ratio Lower Upper
 97 100
 99 64.5 65.1 97.7#
 61 49.0 47.7 71.5

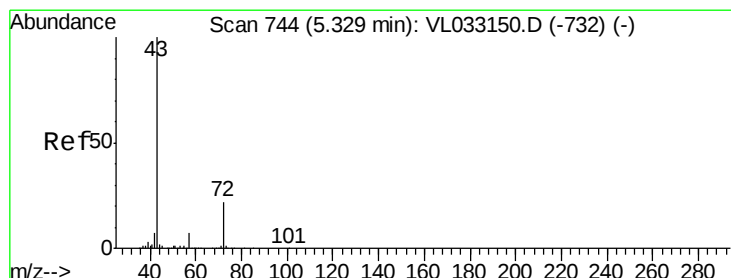
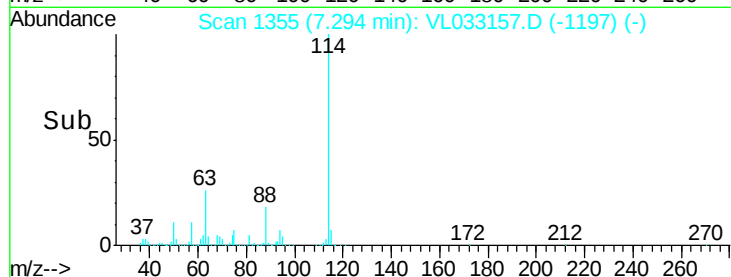
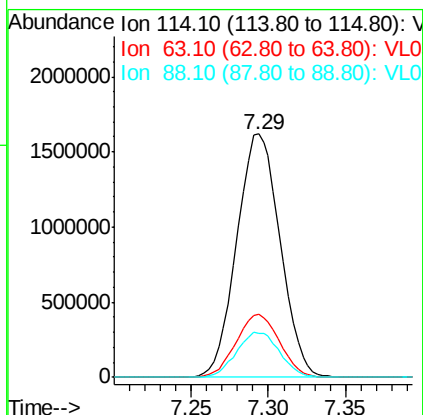
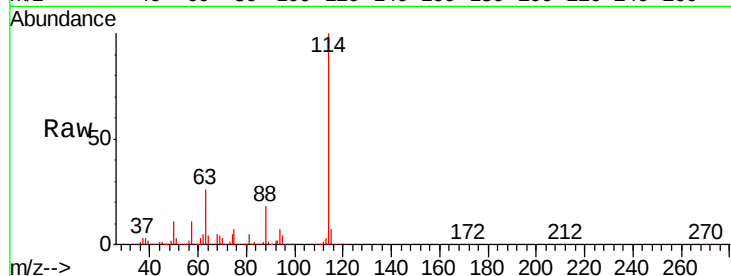




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. 0.01 min
 Lab File: VL033157.D
 Acq: 4 Feb 2019 15:04

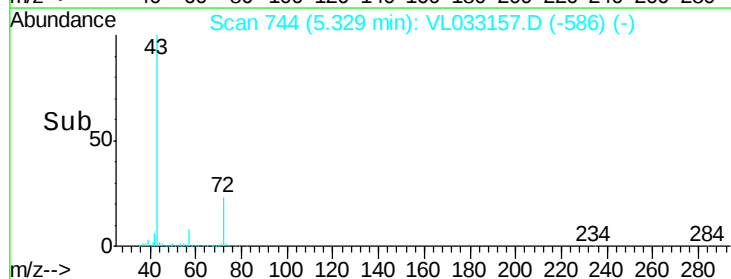
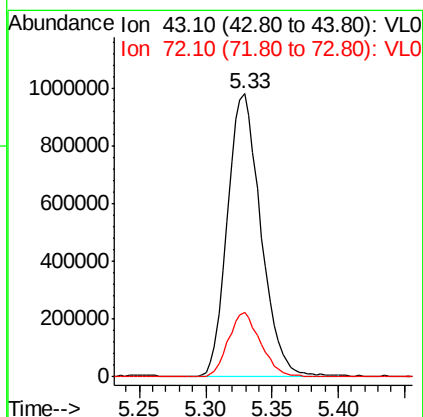
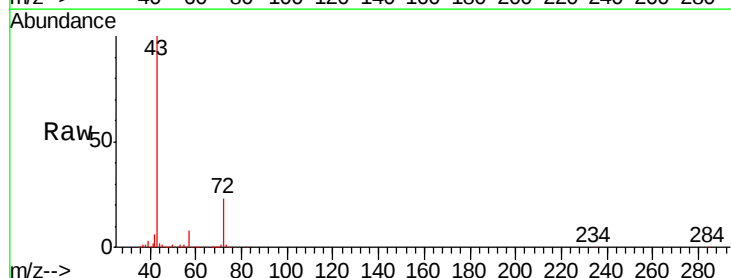
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL020419

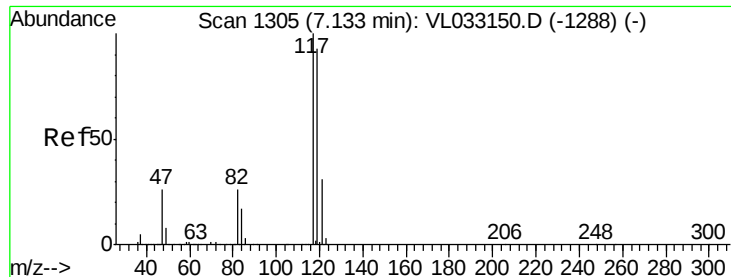
Tgt Ion:114 Resp: 3158337
 Ion Ratio Lower Upper
 114 100
 63 26.1 20.0 30.0
 88 18.5 14.4 21.6



#34
 2-Butanone
 Concen: 8.637 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. 0.01 min
 Lab File: VL033157.D
 Acq: 4 Feb 2019 15:04

Tgt Ion: 43 Resp: 1715637
 Ion Ratio Lower Upper
 43 100
 72 22.3 17.9 26.9





#35

Carbon Tetrachloride

Concen: 4.055 ppbv

RT: 7.14 min Scan# 1307

Delta R.T. 0.01 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

ICVVL020419

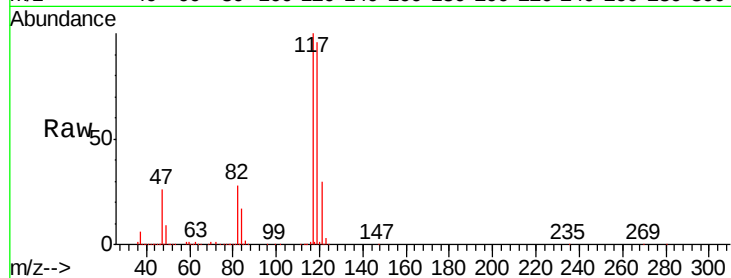
Tgt Ion:117 Resp: 820176

Ion Ratio Lower Upper

117 100

119 96.2 76.6 114.8

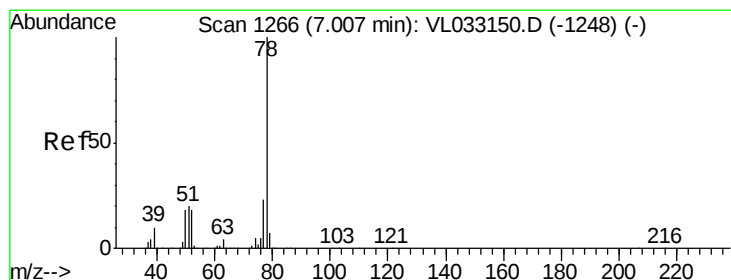
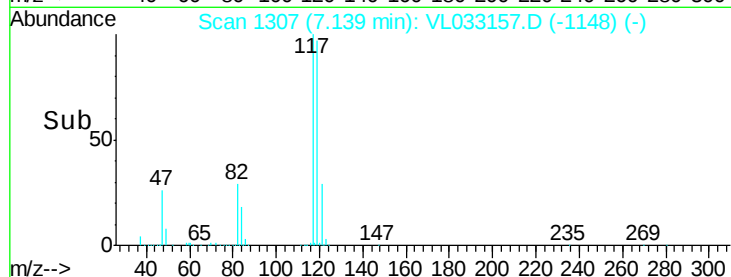
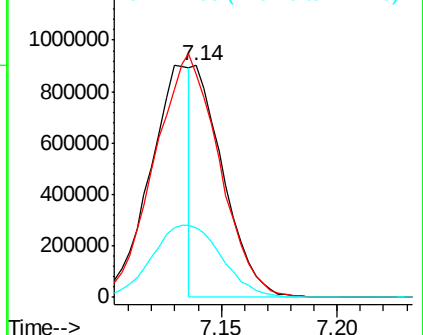
121 29.7 25.0 37.4



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: 8.649 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. 0.01 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

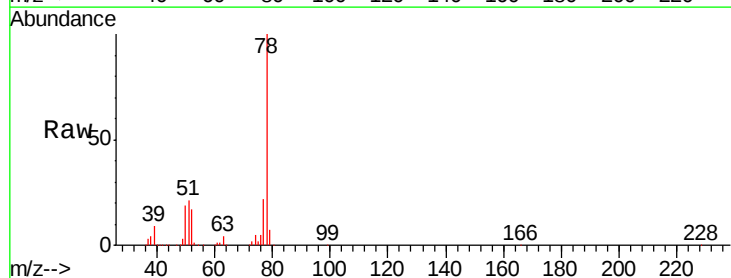
Tgt Ion: 78 Resp: 2761456

Ion Ratio Lower Upper

78 100

77 21.8 17.8 26.6

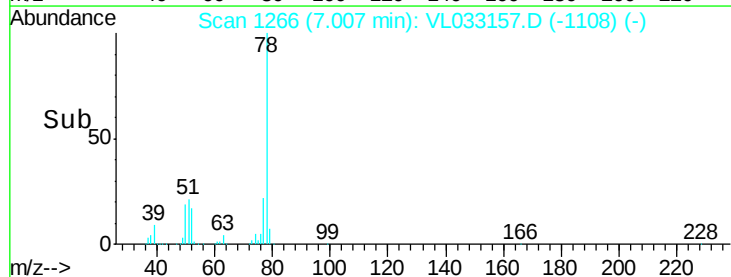
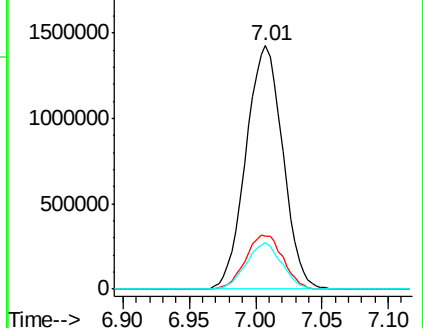
50 18.8 14.7 22.1

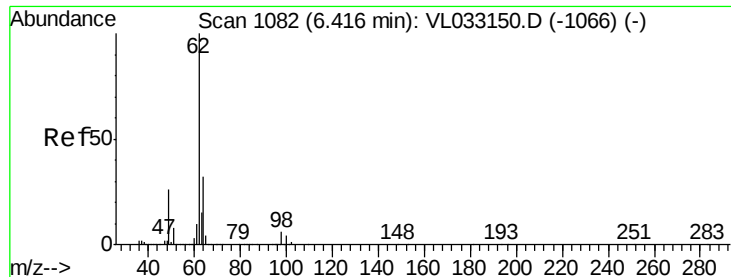


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

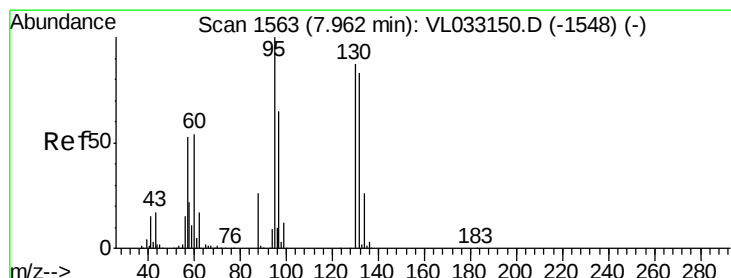
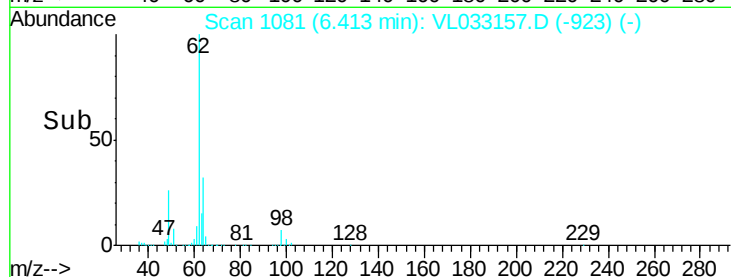
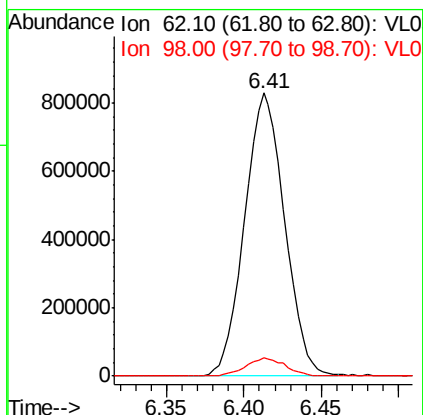
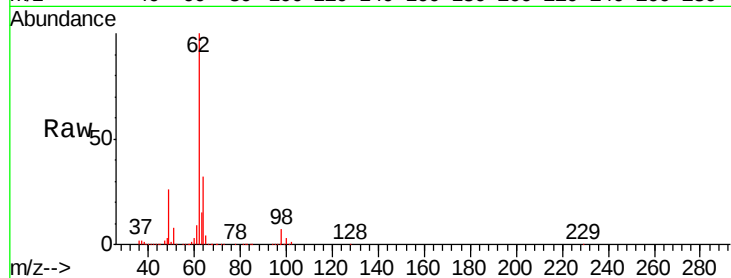




#37
 1,2-Dichloroethane
 Concen: 9.164 ppbv
 RT: 6.41 min Scan# 1081
 Delta R.T. 0.01 min
 Lab File: VL033157.D
 Acq: 4 Feb 2019 15:04

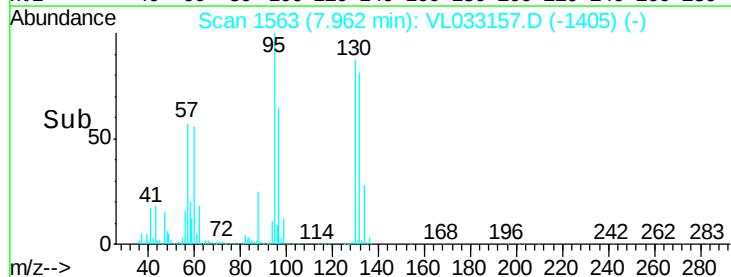
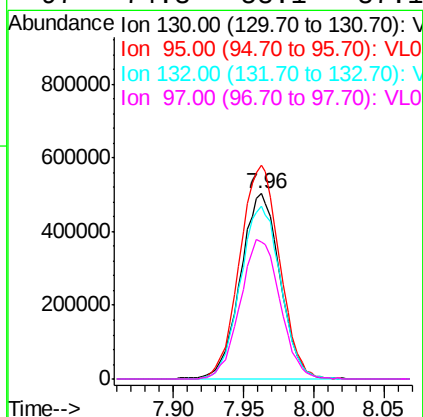
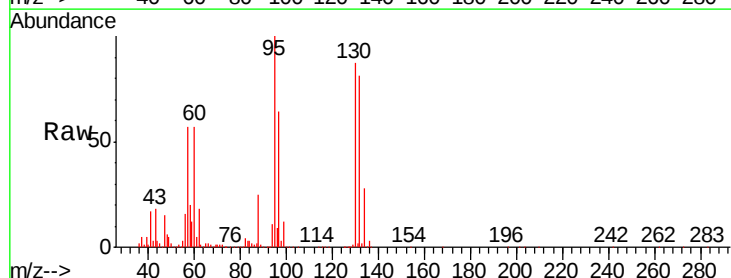
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL020419

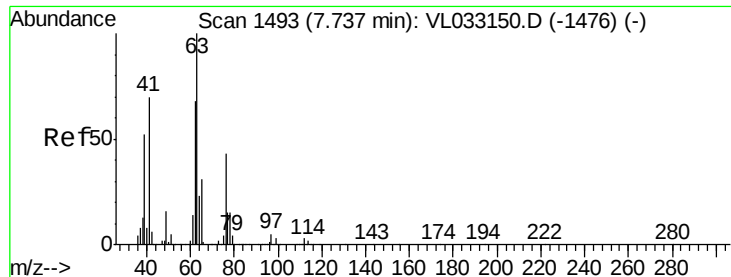
Tgt Ion: 62 Resp: 1494399
 Ion Ratio Lower Upper
 62 100
 98 6.4 5.3 7.9



#38
 Trichloroethene
 Concen: 8.457 ppbv
 RT: 7.96 min Scan# 1563
 Delta R.T. 0.01 min
 Lab File: VL033157.D
 Acq: 4 Feb 2019 15:04

Tgt Ion: 130 Resp: 980644
 Ion Ratio Lower Upper
 130 100
 95 115.7 91.6 137.4
 132 93.1 79.0 118.4
 97 74.3 58.1 87.1

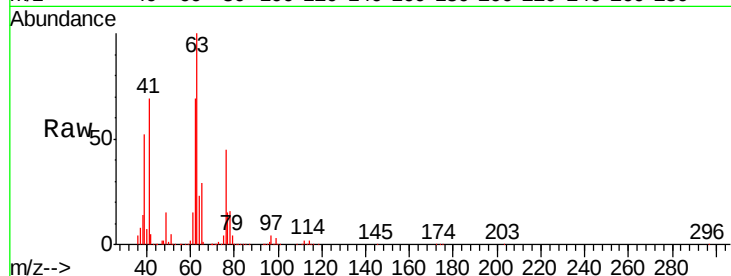




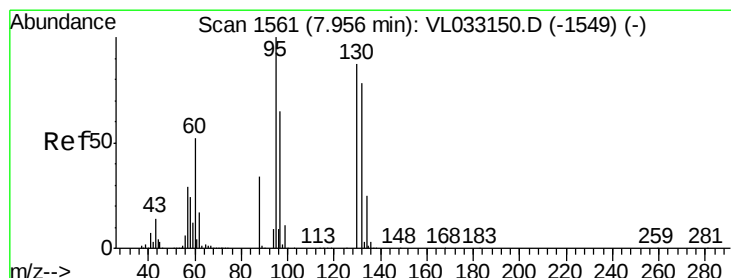
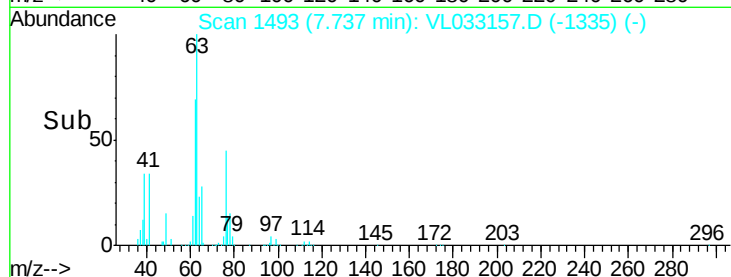
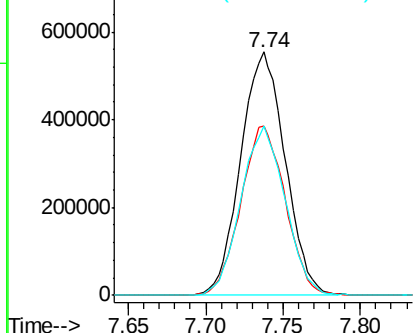
#39
 1,2-Dichloropropane
 Concen: 9.038 ppbv
 RT: 7.74 min Scan# 1493
 Delta R.T. 0.01 min
 Lab File: VL033157.D
 Acq: 4 Feb 2019 15:04

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL020419

Tgt Ion: 63 Resp: 1106841
 Ion Ratio Lower Upper
 63 100
 41 69.4 53.2 79.8
 62 69.2 54.4 81.6

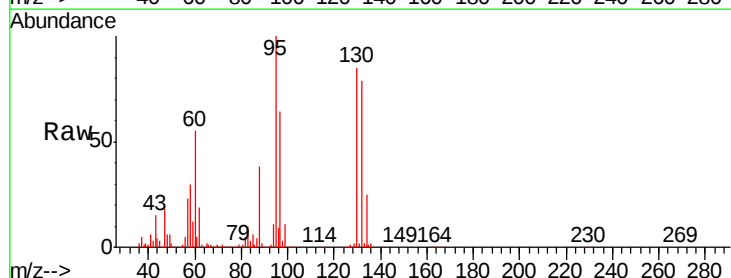


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

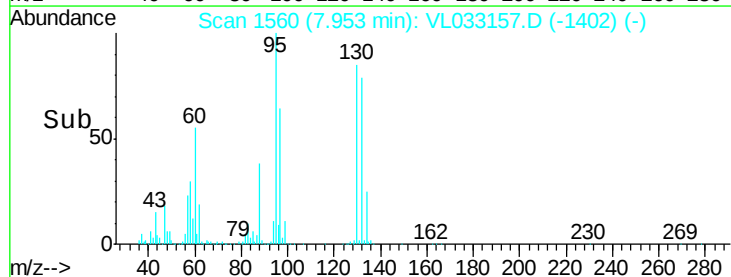
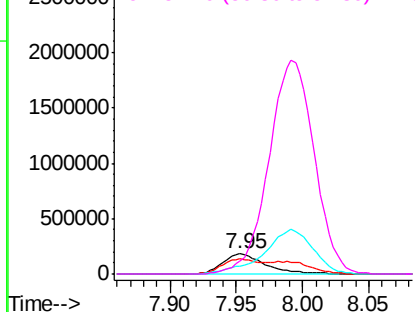


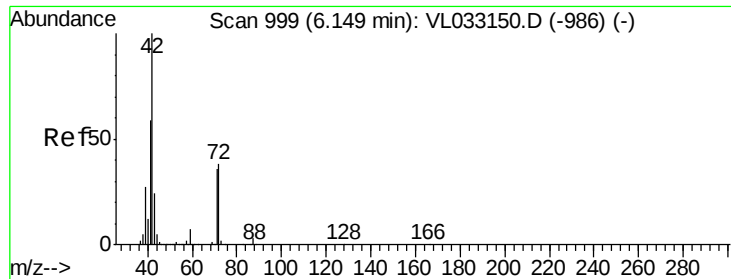
#40
 1,4-Dioxane
 Concen: 8.352 ppbv
 RT: 7.95 min Scan# 1560
 Delta R.T. 0.01 min
 Lab File: VL033157.D
 Acq: 4 Feb 2019 15:04

Tgt Ion: 88 Resp: 398961
 Ion Ratio Lower Upper
 88 100
 58 130.0 103.4 155.2
 43 261.3 210.8 316.2
 57 1159.5 933.2 1399.8



Abundance Ion 88.10 (87.80 to 88.80): VL0
 Ion 58.10 (57.80 to 58.80): VL0
 Ion 43.10 (42.80 to 43.80): VL0
 Ion 57.10 (56.80 to 57.80): VL0

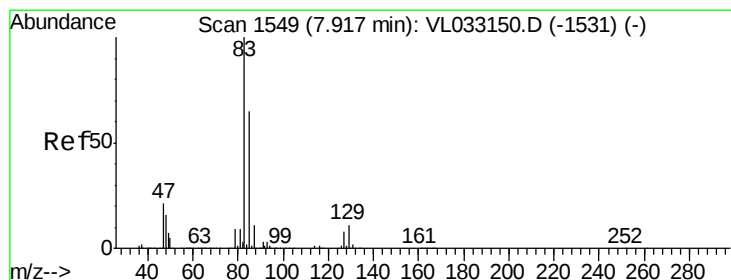
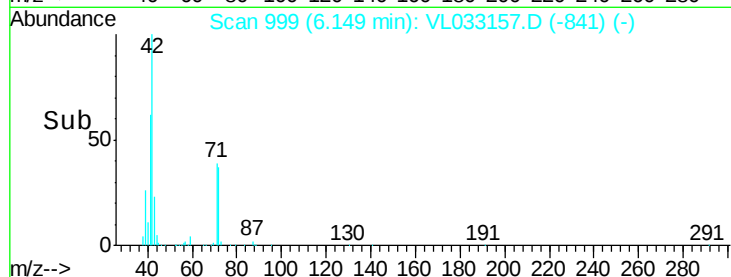
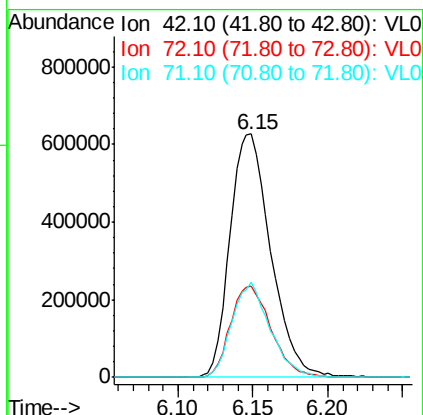
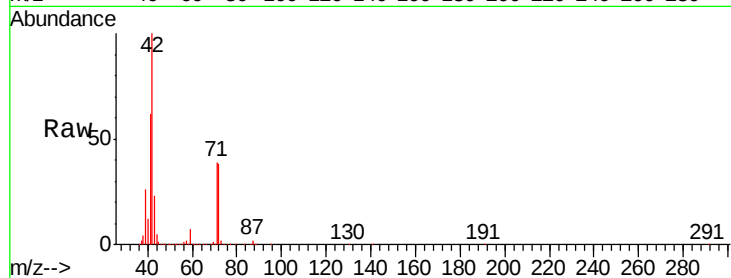




#41
Tetrahydrofuran
Concen: 9.646 ppbv
RT: 6.15 min Scan# 999
Delta R.T. 0.01 min
Lab File: VL033157.D
Acq: 4 Feb 2019 15:04

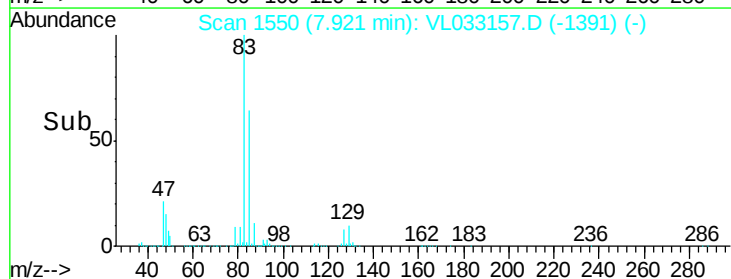
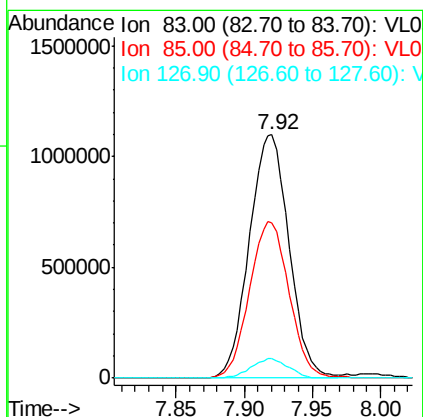
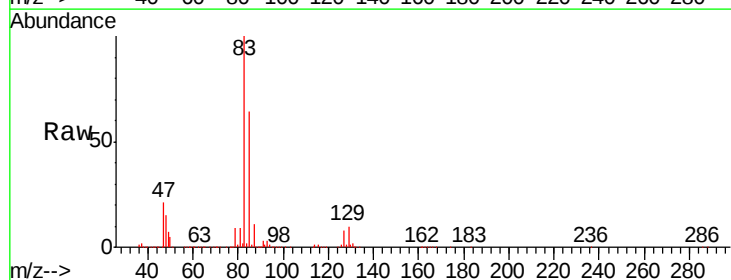
Instrument :
MSVOA_L
ClientSampleId :
ICVVL020419

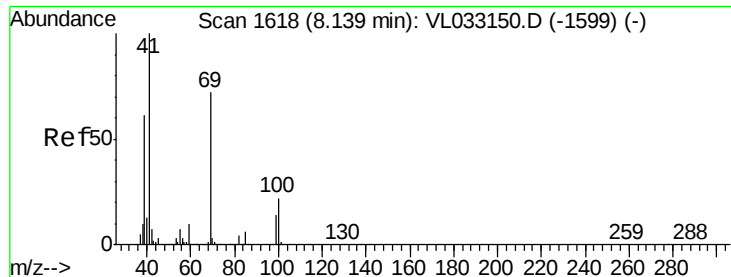
Tgt Ion: 42 Resp: 1190484
Ion Ratio Lower Upper
42 100
72 37.9 30.2 45.4
71 36.8 28.8 43.2



#42
Bromodichloromethane
Concen: 9.290 ppbv
RT: 7.92 min Scan# 1550
Delta R.T. 0.01 min
Lab File: VL033157.D
Acq: 4 Feb 2019 15:04

Tgt Ion: 83 Resp: 2216910
Ion Ratio Lower Upper
83 100
85 64.0 51.3 76.9
127 8.1 6.1 9.1

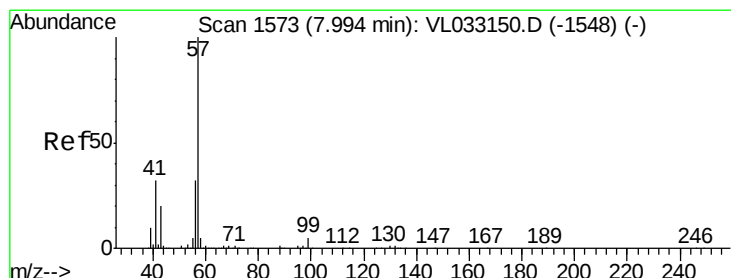
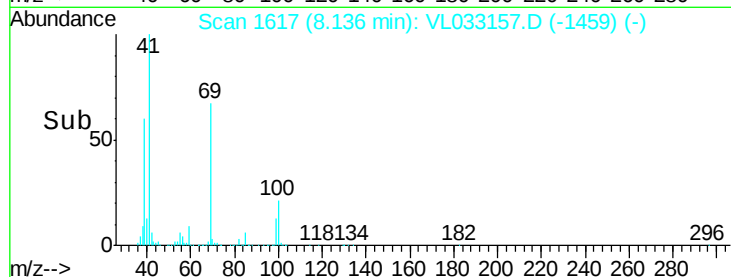
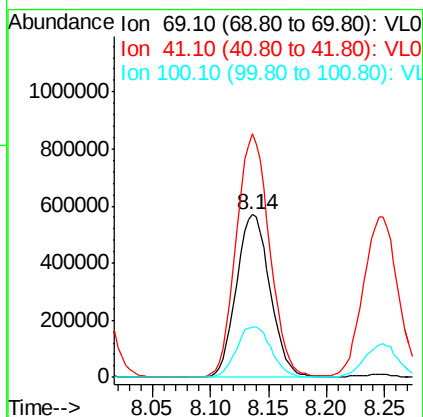
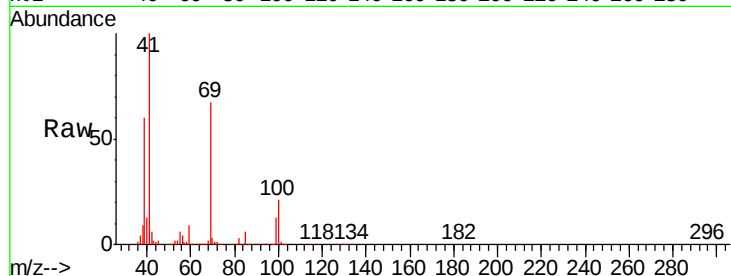




#43
Methyl Methacrylate
Concen: 9.093 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. 0.01 min
Lab File: VL033157.D
Acq: 4 Feb 2019 15:04

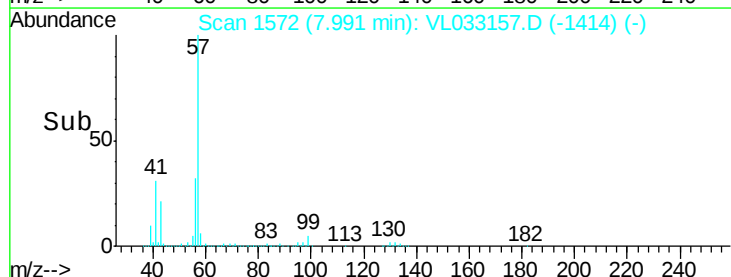
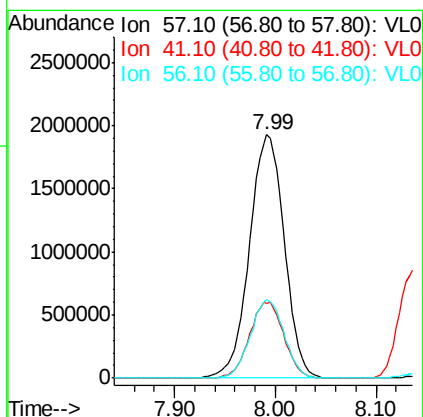
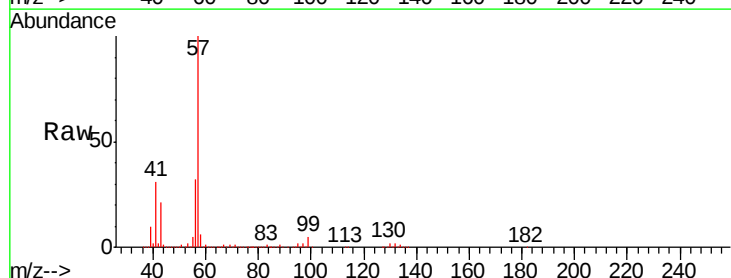
Instrument :
MSVOA_L
ClientSampleId :
ICVVL020419

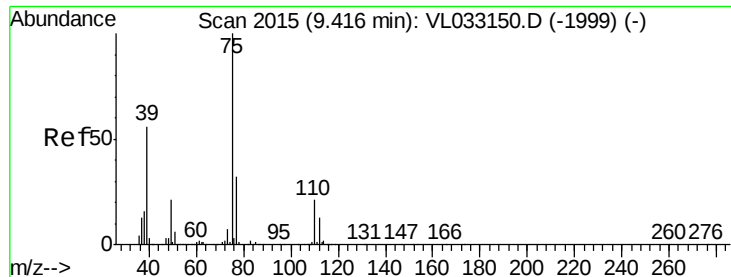
Tgt Ion: 69 Resp: 1154861
Ion Ratio Lower Upper
69 100
41 147.1 118.4 177.6
100 31.9 26.5 39.7



#44
2,2,4-Trimethylpentane
Concen: 8.624 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. 0.01 min
Lab File: VL033157.D
Acq: 4 Feb 2019 15:04

Tgt Ion: 57 Resp: 4620819
Ion Ratio Lower Upper
57 100
41 30.6 24.6 36.8
56 31.2 24.9 37.3





#45

t-1,3-Dichloropropene

Concen: 9.527 ppbv

RT: 9.42 min Scan# 2015

Delta R.T. 0.01 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

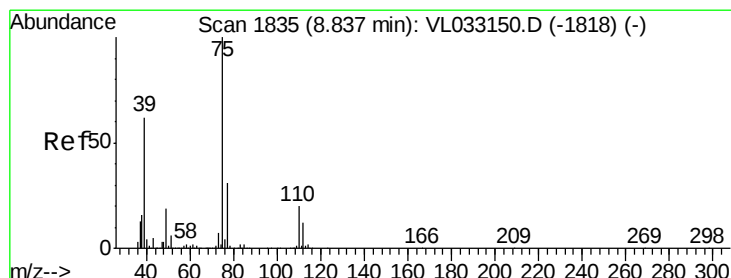
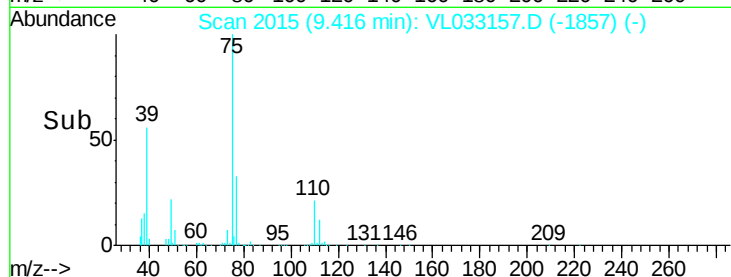
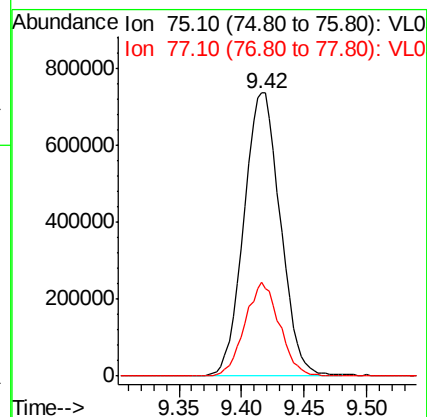
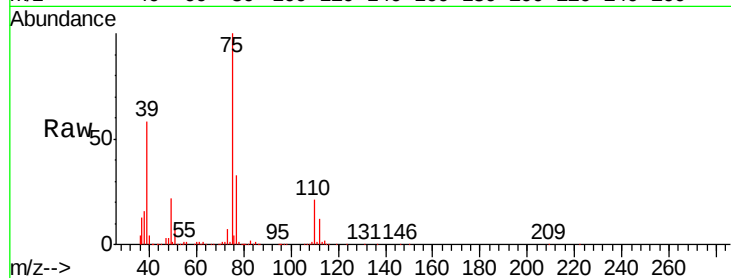
ICVVL020419

Tgt Ion: 75 Resp: 1493259

Ion Ratio Lower Upper

75 100

77 33.2 24.4 36.6



#46

cis-1,3-Dichloropropene

Concen: 9.095 ppbv

RT: 8.84 min Scan# 1835

Delta R.T. 0.01 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

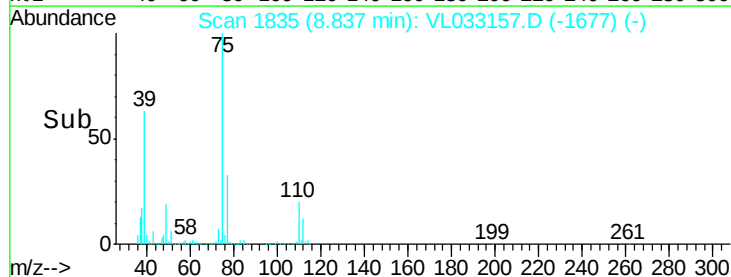
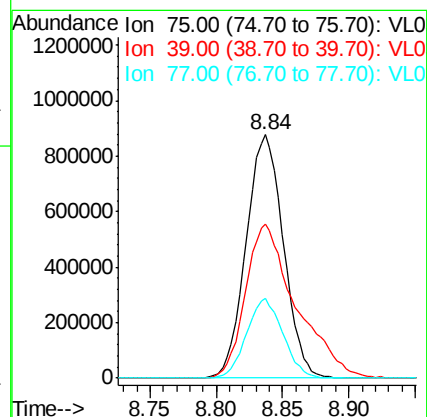
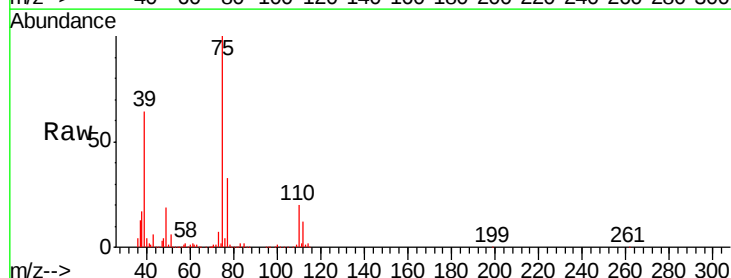
Tgt Ion: 75 Resp: 1714611

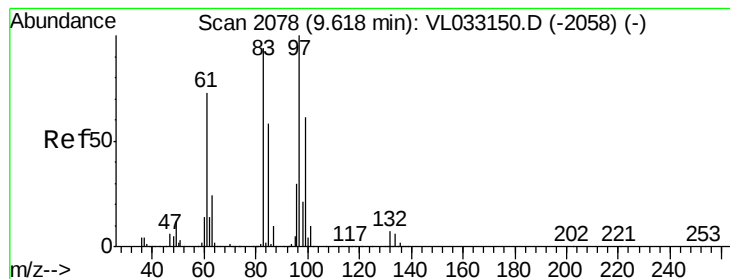
Ion Ratio Lower Upper

75 100

39 63.5 51.4 77.2

77 32.6 25.4 38.0





#47

1,1,2-Trichloroethane

Concen: 8.181 ppbv

RT: 9.62 min Scan# 2077

Delta R.T. 0.00 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

ICVVL020419

Tgt Ion: 97 Resp: 1075529

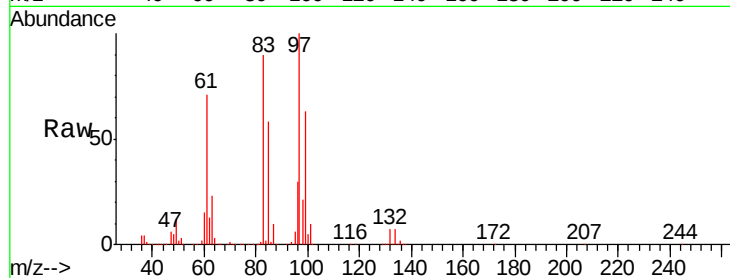
Ion Ratio Lower Upper

97 100

83 90.0 65.8 98.8

85 57.9 44.7 67.1

99 62.5 48.6 73.0

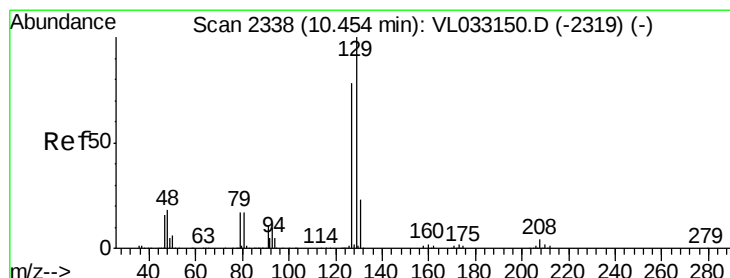
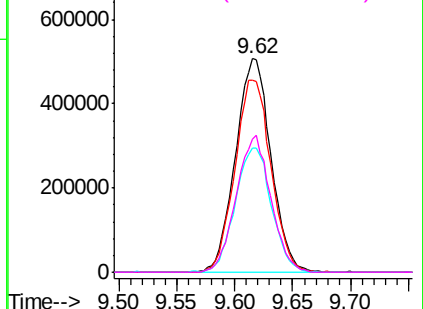
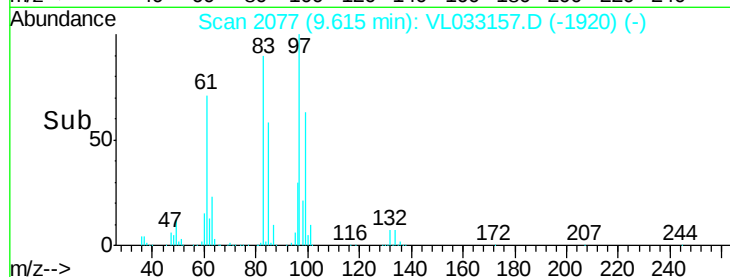


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 8.872 ppbv

RT: 10.45 min Scan# 2337

Delta R.T. 0.01 min

Lab File: VL033157.D

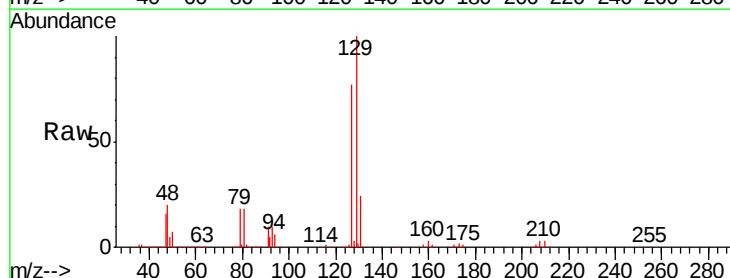
Acq: 4 Feb 2019 15:04

Tgt Ion: 129 Resp: 1735944

Ion Ratio Lower Upper

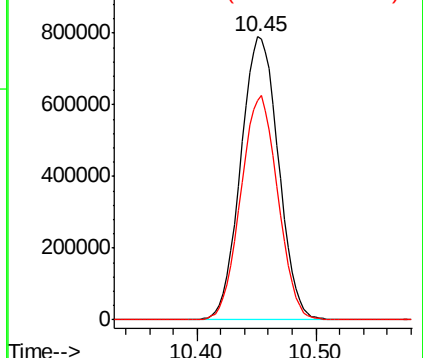
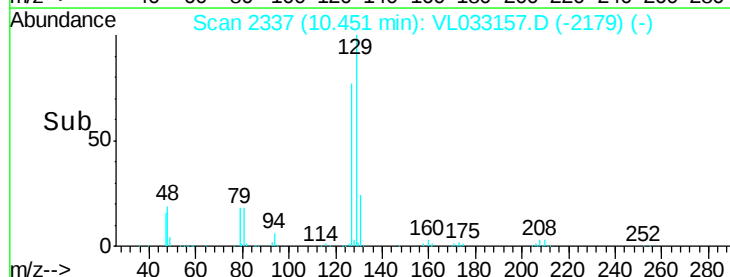
129 100

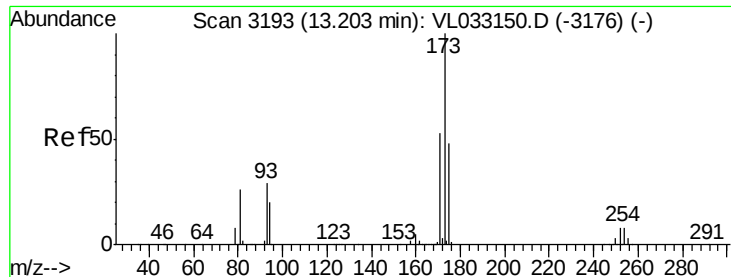
127 77.8 39.3 117.9



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 8.369 ppbv

RT: 13.20 min Scan# 3193

Delta R.T. 0.01 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

ICVVL020419

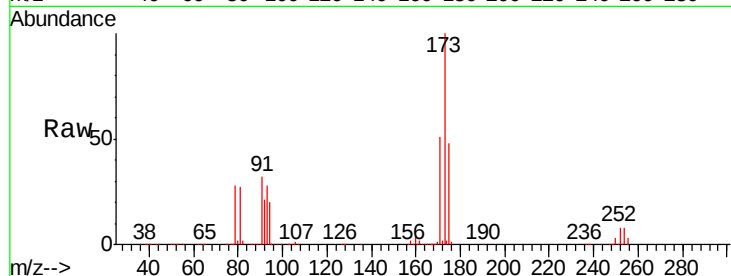
Tgt Ion:173 Resp: 1351541

Ion Ratio Lower Upper

173 100

175 48.7 39.3 58.9

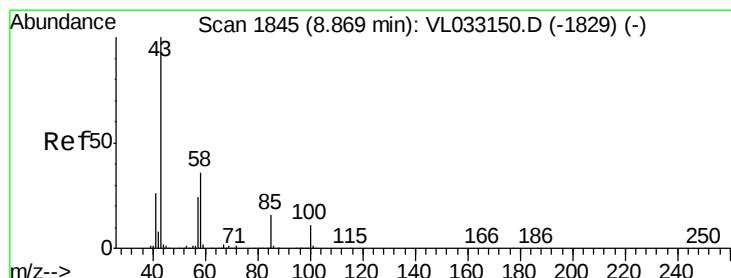
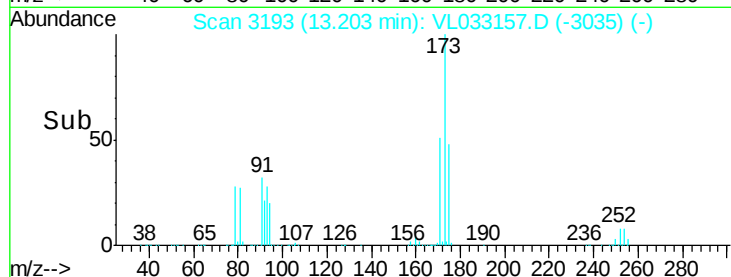
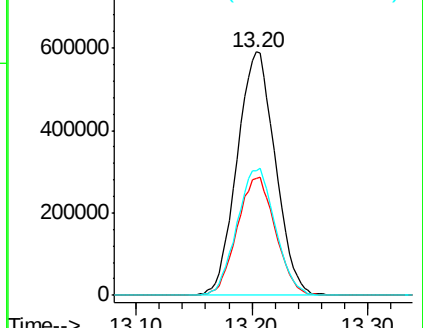
171 52.3 41.8 62.6



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: 7.816 ppbv

RT: 8.87 min Scan# 1845

Delta R.T. 0.01 min

Lab File: VL033157.D

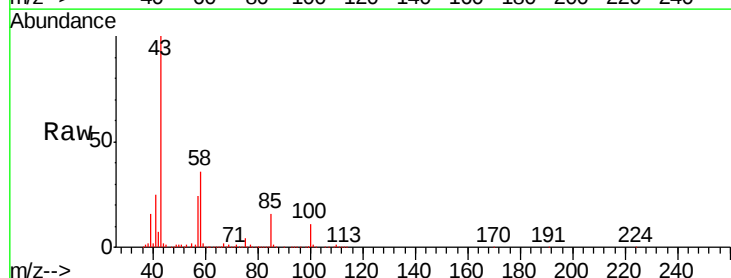
Acq: 4 Feb 2019 15:04

Tgt Ion: 43 Resp: 2810097

Ion Ratio Lower Upper

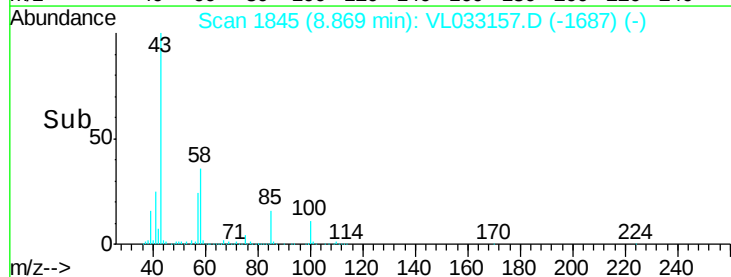
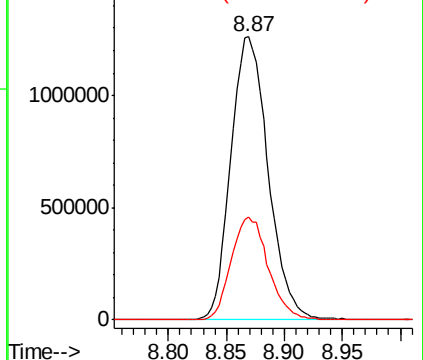
43 100

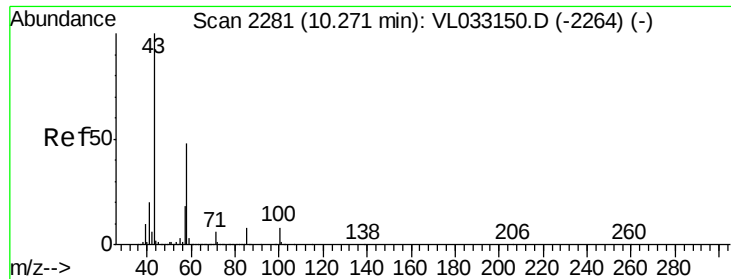
58 36.1 28.7 43.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

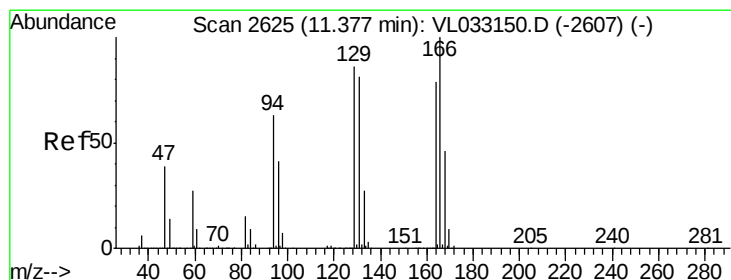
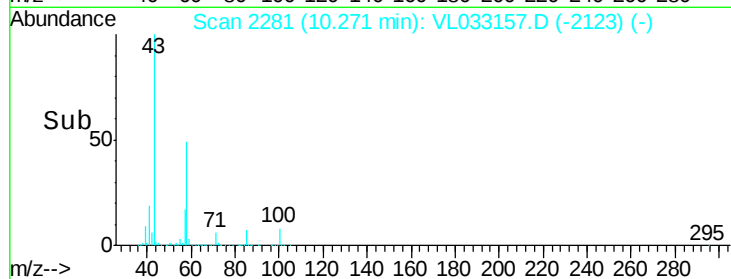
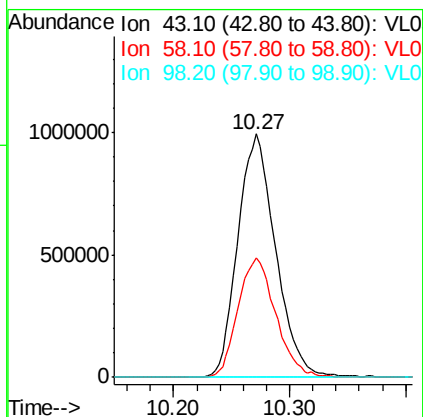
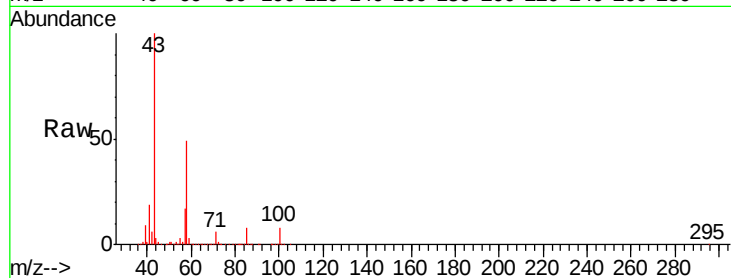




#51
 2-Hexanone
 Concen: 7.440 ppbv
 RT: 10.27 min Scan# 2281
 Delta R.T. 0.01 min
 Lab File: VL033157.D
 Acq: 4 Feb 2019 15:04

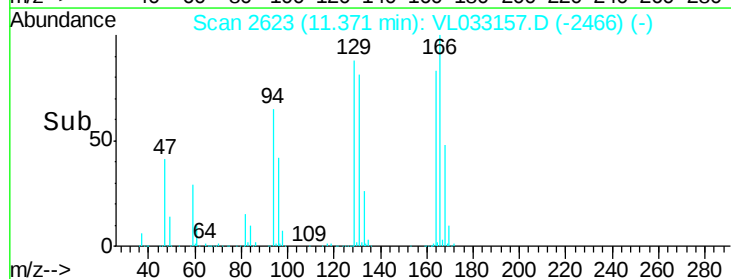
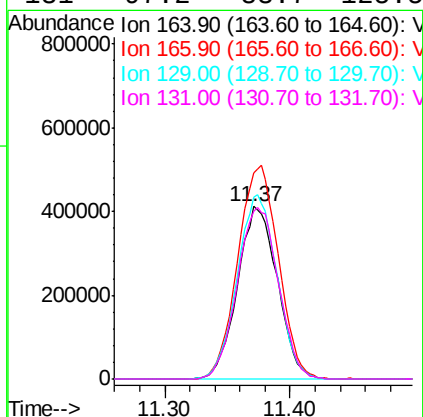
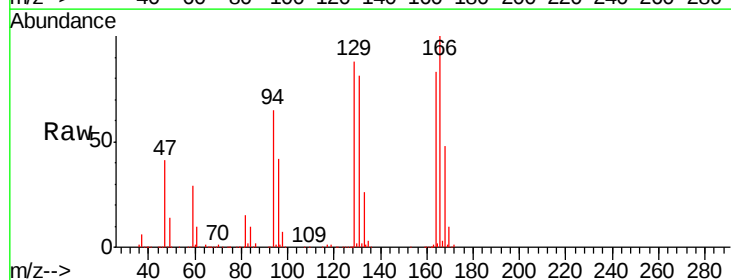
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL020419

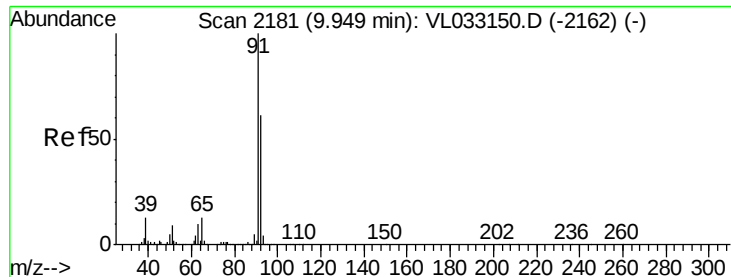
Tgt Ion: 43 Resp: 2243562
 Ion Ratio Lower Upper
 43 100
 58 49.5 39.4 59.2
 98 0.1 0.1 0.1



#52
 Tetrachloroethene
 Concen: 8.187 ppbv
 RT: 11.37 min Scan# 2623
 Delta R.T. 0.00 min
 Lab File: VL033157.D
 Acq: 4 Feb 2019 15:04

Tgt Ion: 164 Resp: 908477
 Ion Ratio Lower Upper
 164 100
 166 119.6 98.6 148.0
 129 105.3 86.3 129.5
 131 97.2 83.7 125.5





#53

Toluene

Concen: 8.330 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. 0.01 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

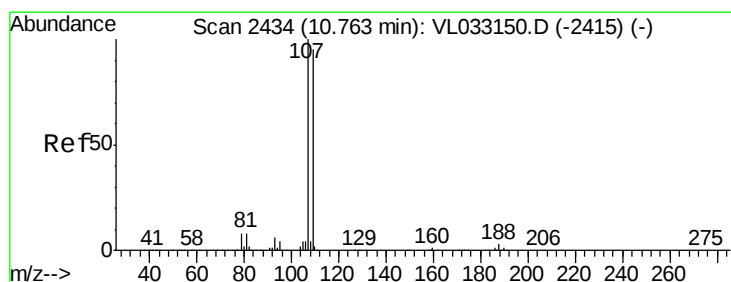
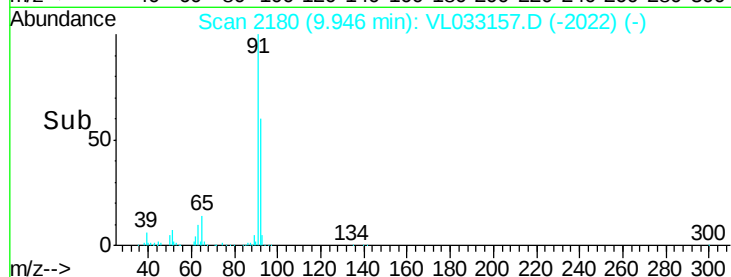
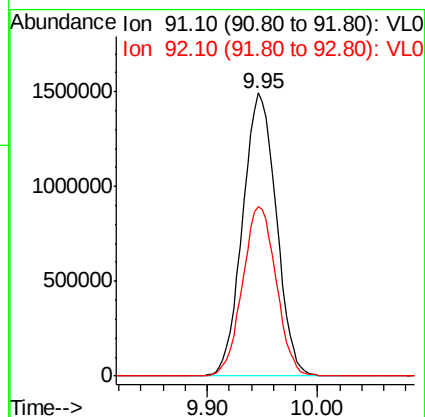
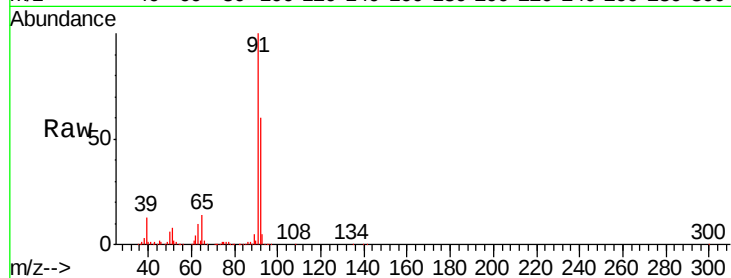
ICVVL020419

Tgt Ion: 91 Resp: 3158714

Ion Ratio Lower Upper

91 100

92 60.0 48.9 73.3



#54

1,2-Dibromoethane

Concen: 8.391 ppbv

RT: 10.76 min Scan# 2434

Delta R.T. 0.01 min

Lab File: VL033157.D

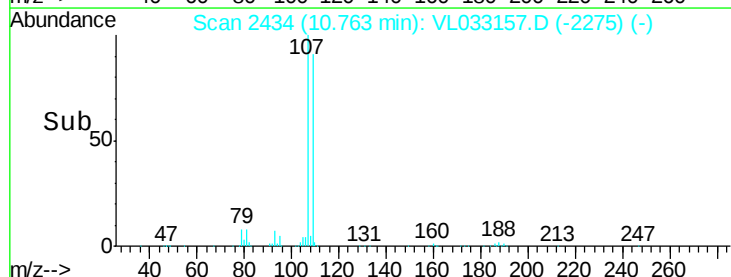
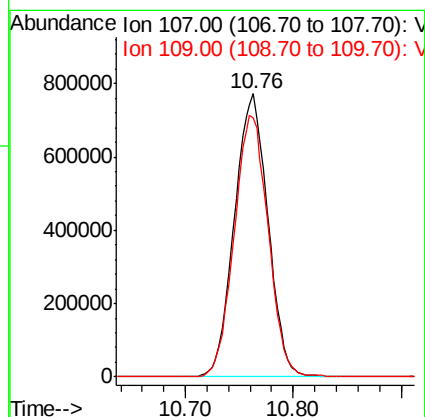
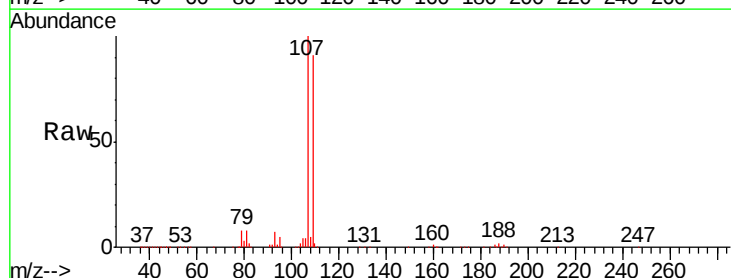
Acq: 4 Feb 2019 15:04

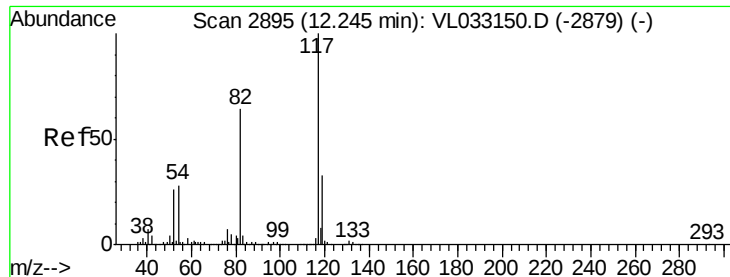
Tgt Ion: 107 Resp: 1670300

Ion Ratio Lower Upper

107 100

109 91.4 74.7 112.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. 0.00 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

ICVVL020419

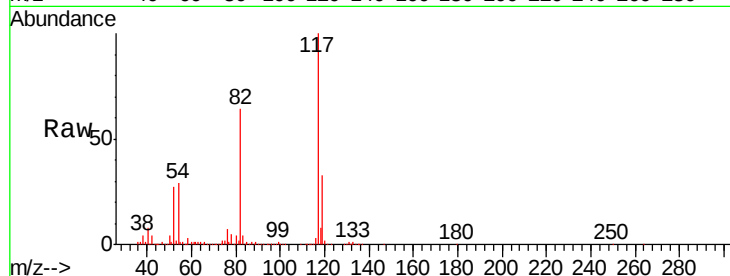
Tgt Ion:117 Resp: 3322976

Ion Ratio Lower Upper

117 100

82 63.4 49.3 73.9

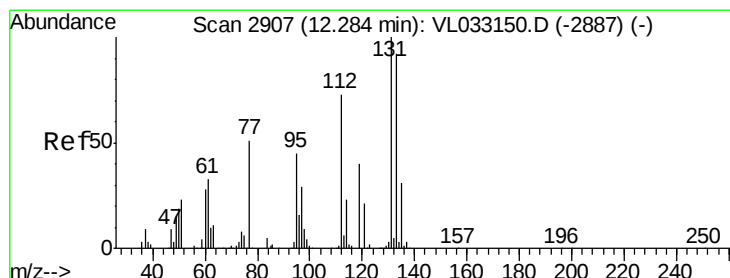
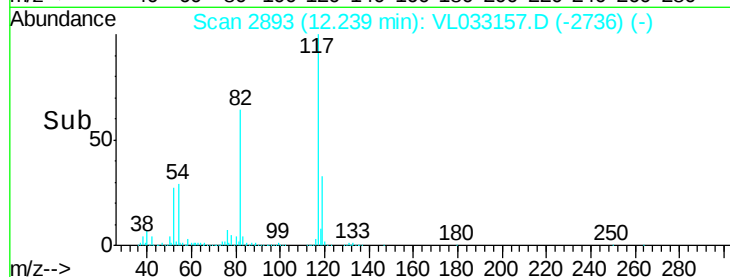
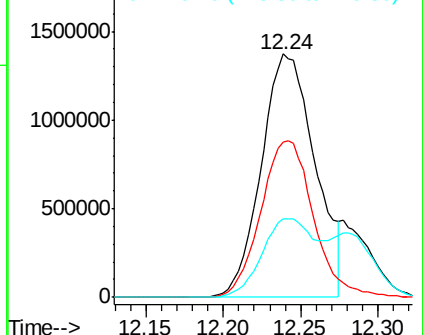
119 53.9 27.1 40.7#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 8.500 ppbv

RT: 12.28 min Scan# 2907

Delta R.T. 0.01 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

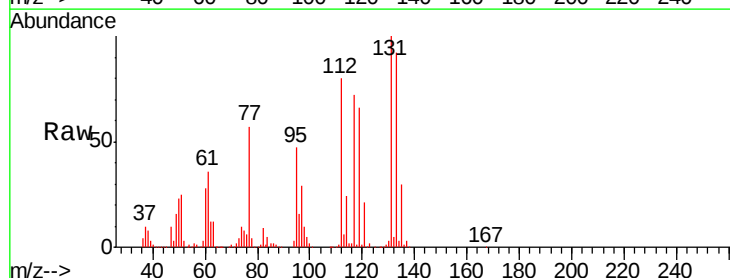
Tgt Ion:131 Resp: 1221236

Ion Ratio Lower Upper

131 100

133 94.0 76.2 114.4

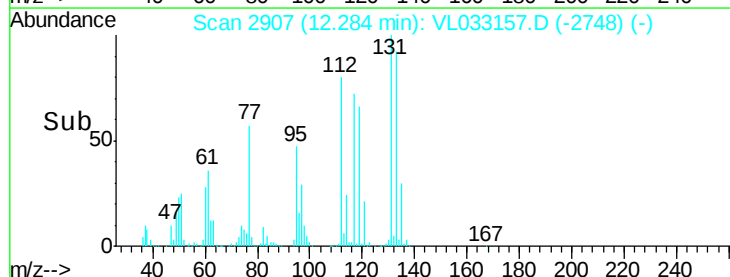
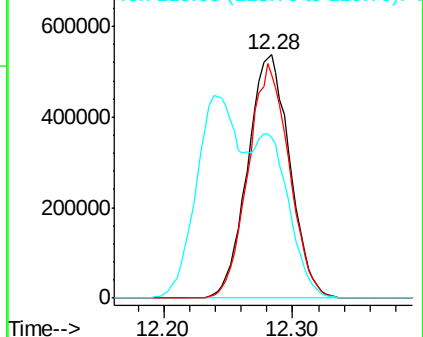
119 146.6 46.9 70.3#

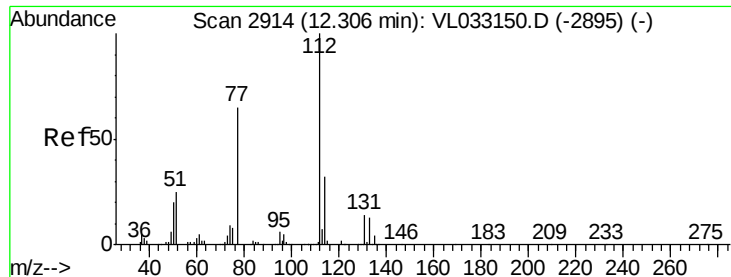


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 8.103 ppbv

RT: 12.30 min Scan# 2913

Delta R.T. 0.01 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

ICVVL020419

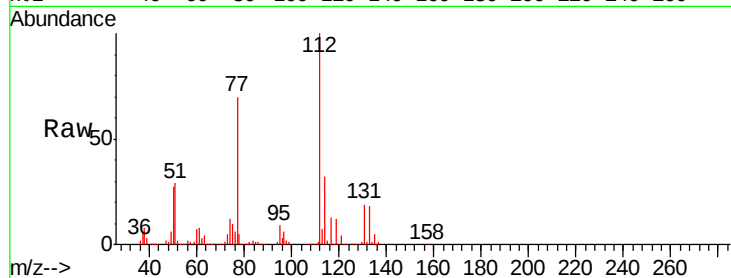
Tgt Ion: 112 Resp: 2244822

Ion Ratio Lower Upper

112 100

77 69.6 52.8 79.2

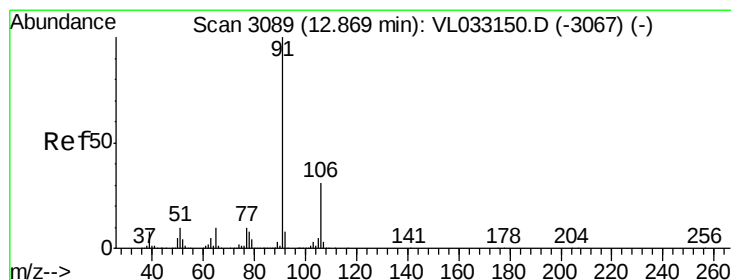
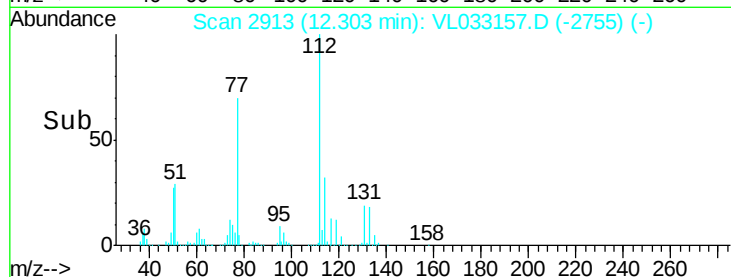
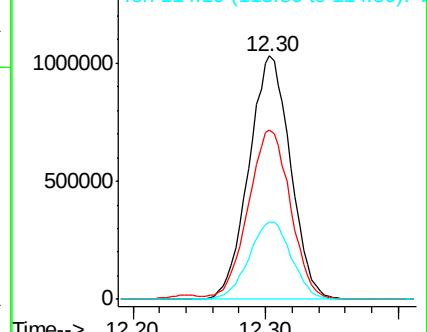
114 32.0 29.7 36.3



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: 8.136 ppbv

RT: 12.87 min Scan# 3088

Delta R.T. 0.01 min

Lab File: VL033157.D

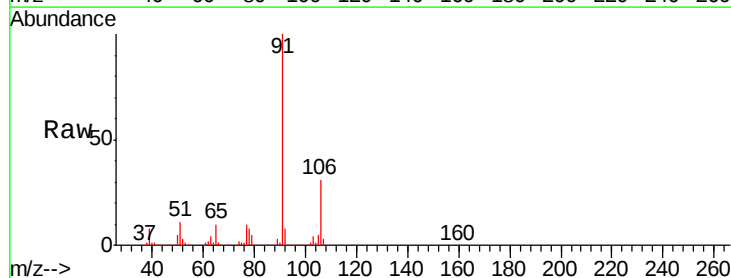
Acq: 4 Feb 2019 15:04

Tgt Ion: 91 Resp: 4253556

Ion Ratio Lower Upper

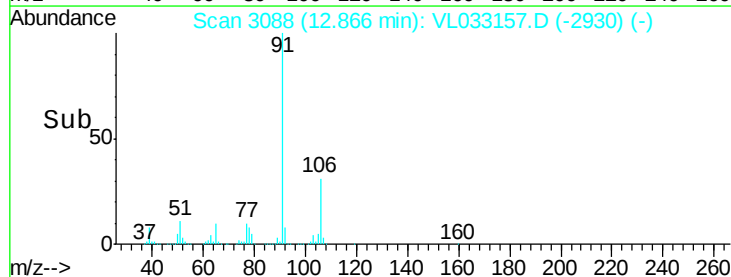
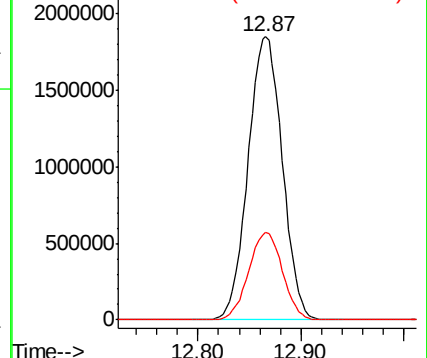
91 100

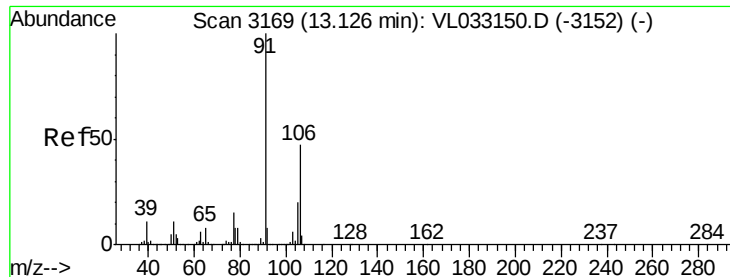
106 31.0 24.7 37.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

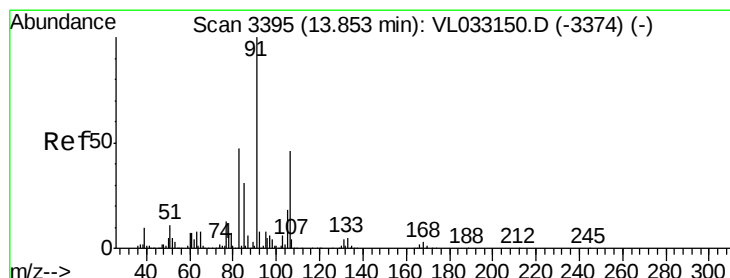
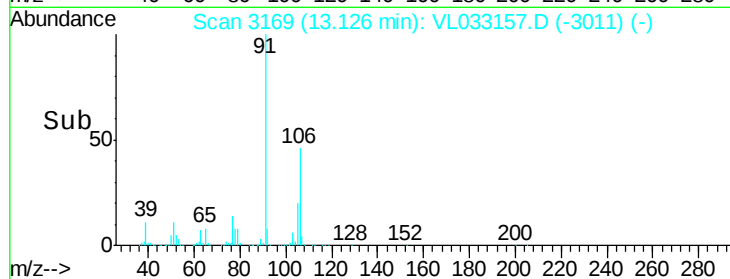
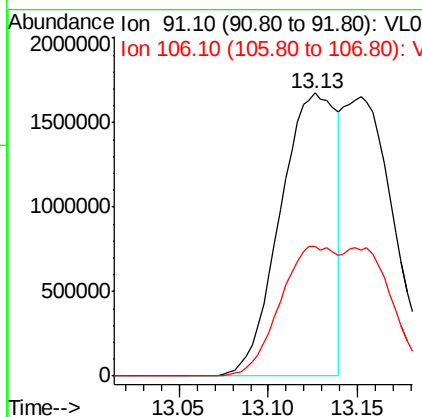
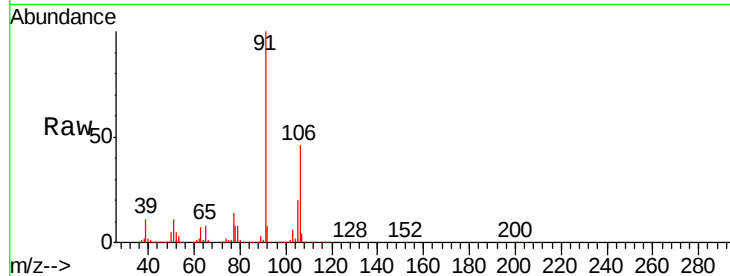




#59
m/p-Xylene
Concen: 8.519 ppbv
RT: 13.13 min Scan# 3169
Delta R.T. 0.01 min
Lab File: VL033157.D
Acq: 4 Feb 2019 15:04

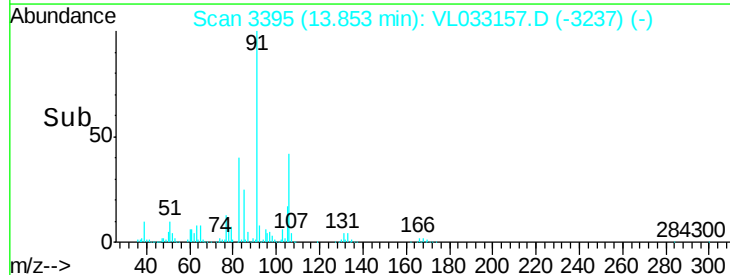
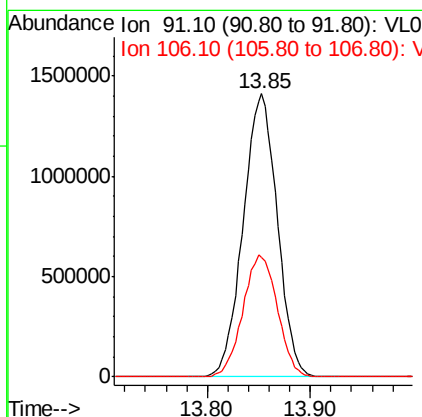
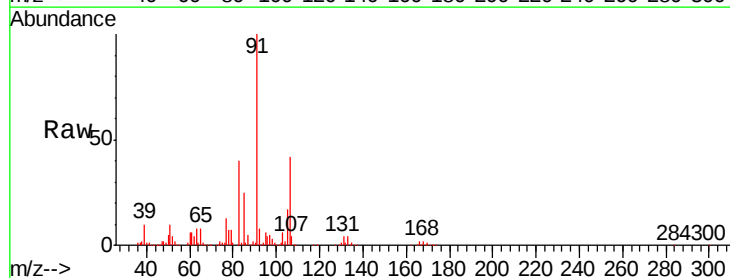
Instrument :
MSVOA_L
ClientSampleId :
ICVVL020419

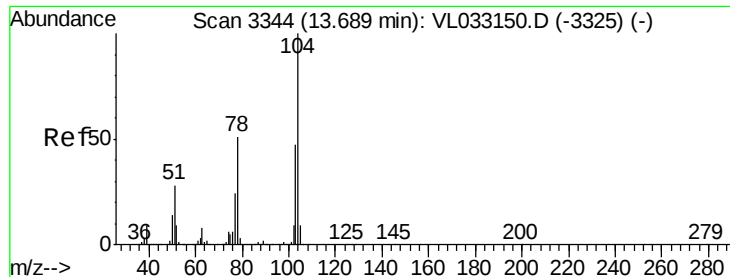
Tgt Ion: 91 Resp: 3647062
Ion Ratio Lower Upper
91 100
106 85.5 37.6 56.4#



#60
o-Xylene
Concen: 8.198 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. 0.01 min
Lab File: VL033157.D
Acq: 4 Feb 2019 15:04

Tgt Ion: 91 Resp: 3238734
Ion Ratio Lower Upper
91 100
106 43.7 23.2 69.5





#61

Styrene

Concen: 8.120 ppbv

RT: 13.69 min Scan# 3343

Delta R.T. 0.01 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

ICVVL020419

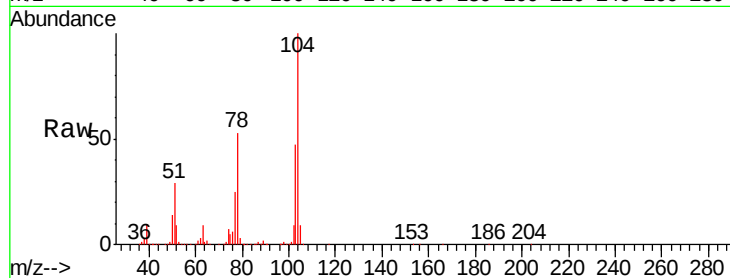
Tgt Ion:104 Resp: 2567068

Ion Ratio Lower Upper

104 100

78 52.8 39.7 59.5

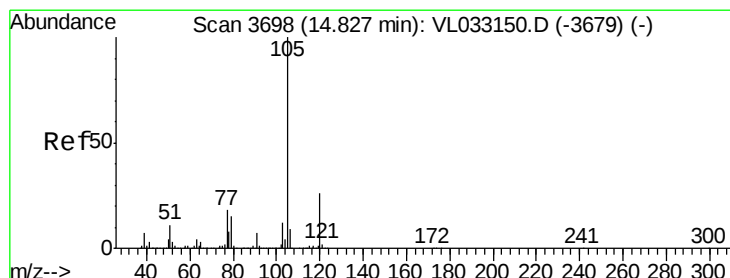
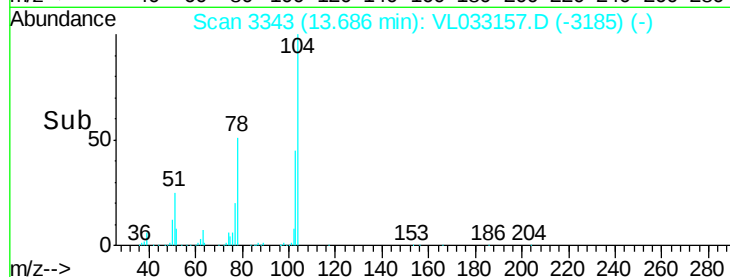
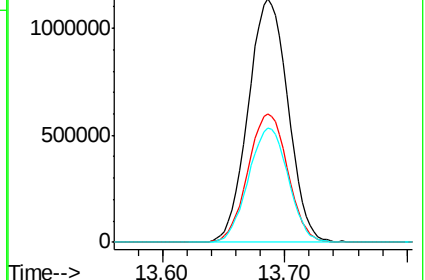
103 47.1 37.7 56.5



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: 8.024 ppbv

RT: 14.83 min Scan# 3699

Delta R.T. 0.01 min

Lab File: VL033157.D

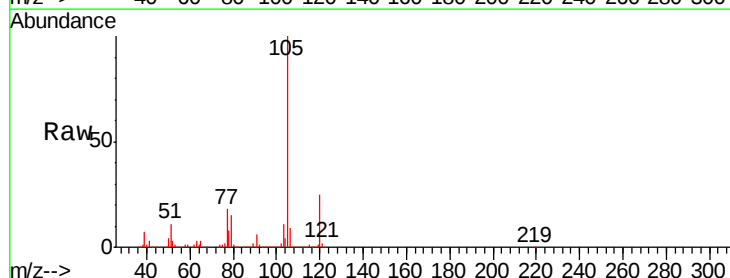
Acq: 4 Feb 2019 15:04

Tgt Ion:105 Resp: 4525121

Ion Ratio Lower Upper

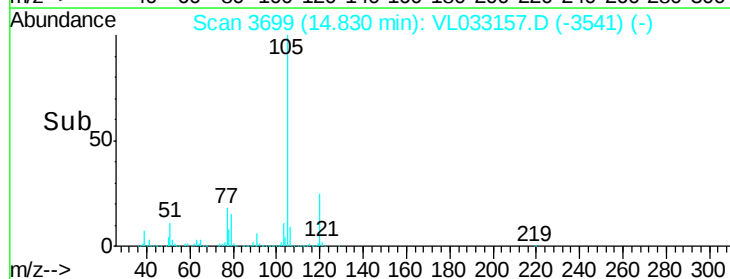
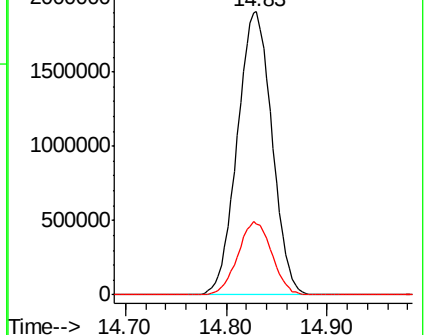
105 100

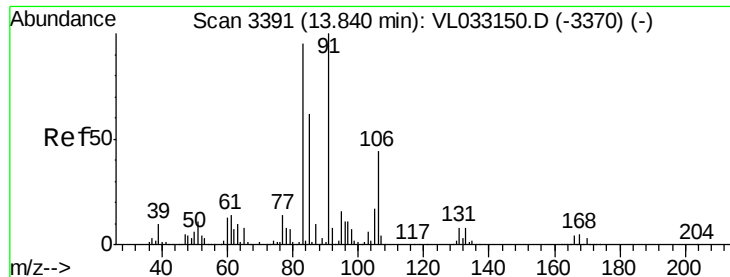
120 25.5 20.8 31.2



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: 7.406 ppbv

RT: 13.84 min Scan# 3391

Delta R.T. 0.01 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

ICVVL020419

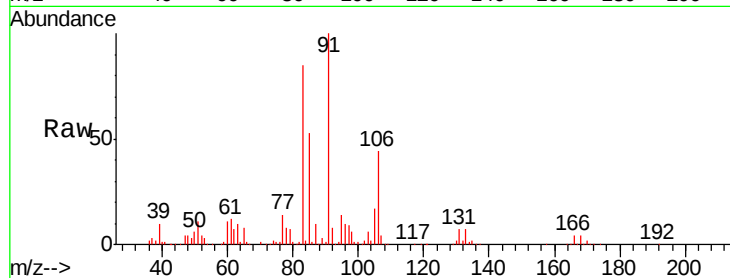
Tgt Ion: 83 Resp: 2098967

Ion Ratio Lower Upper

83 100

131 8.8 4.5 13.7

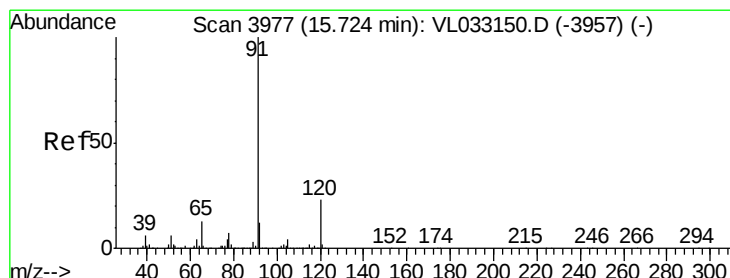
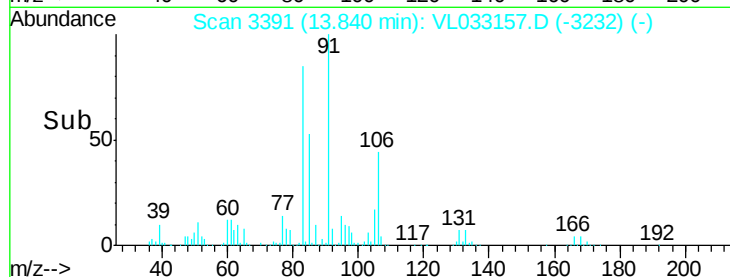
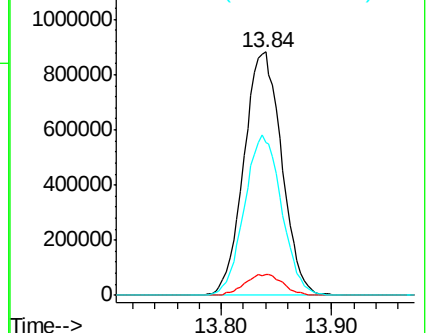
85 64.8 32.5 97.4



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



#64

n-propylbenzene

Concen: 7.865 ppbv

RT: 15.72 min Scan# 3977

Delta R.T. 0.00 min

Lab File: VL033157.D

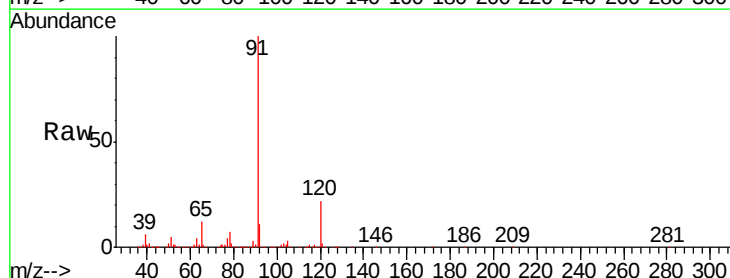
Acq: 4 Feb 2019 15:04

Tgt Ion: 120 Resp: 1157395

Ion Ratio Lower Upper

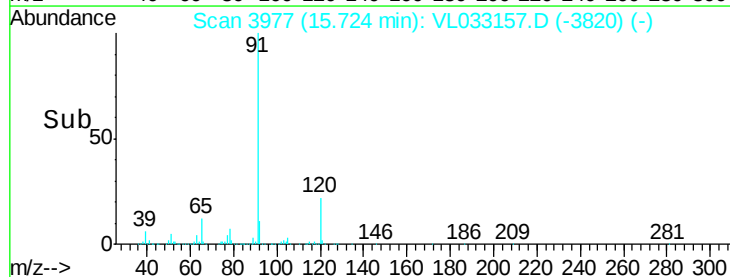
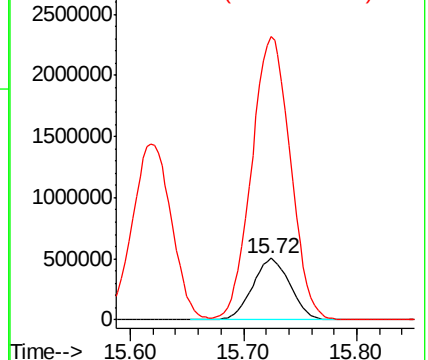
120 100

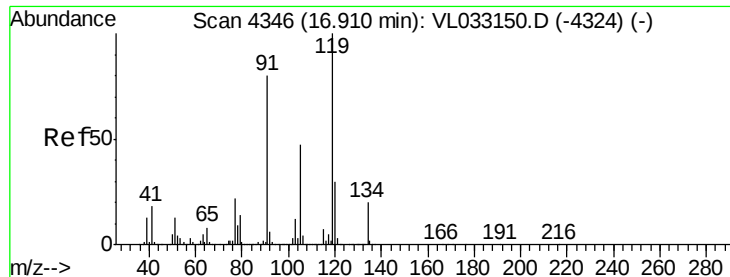
91 477.4 370.2 555.2



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

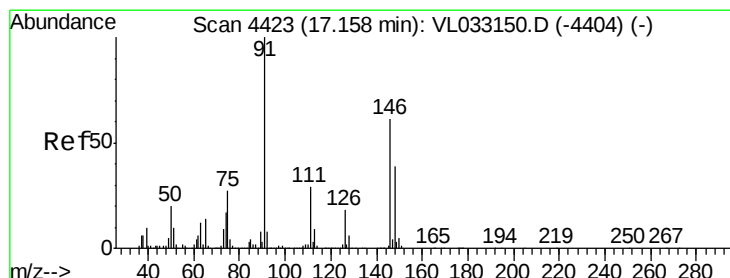
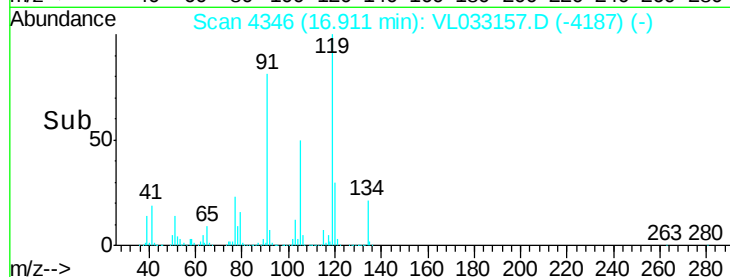
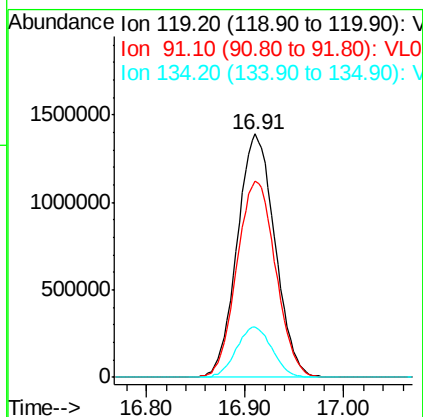
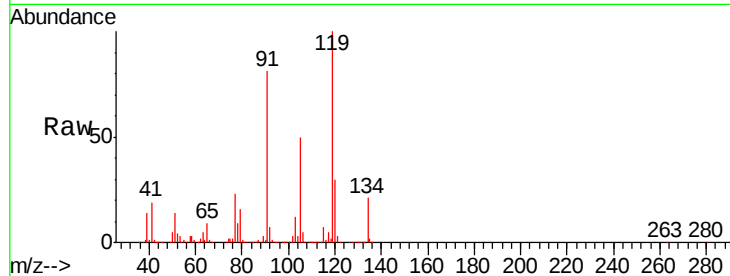




#65
 tert-Butylbenzene
 Concen: 7.274 ppbv
 RT: 16.91 min Scan# 4346
 Delta R.T. 0.01 min
 Lab File: VL033157.D
 Acq: 4 Feb 2019 15:04

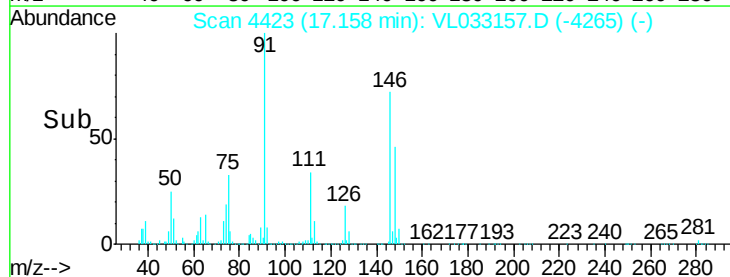
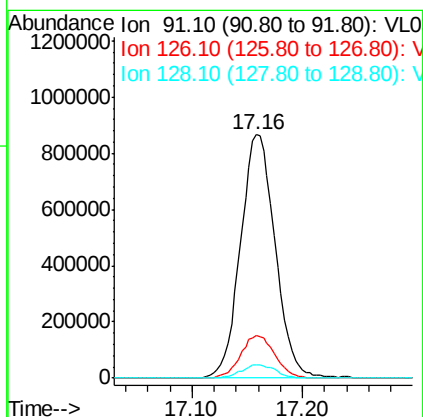
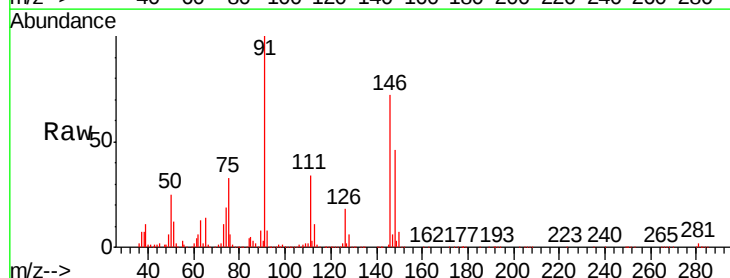
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL020419

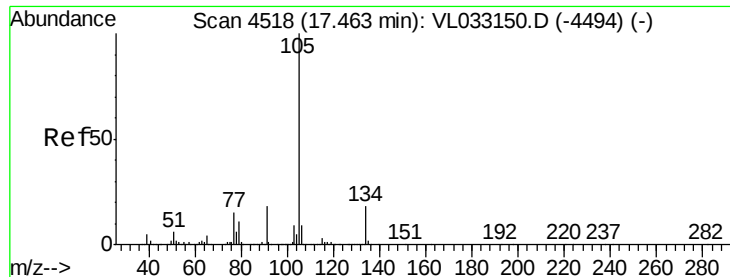
Tgt Ion: 119 Resp: 3679254
 Ion Ratio Lower Upper
 119 100
 91 83.2 63.0 94.6
 134 19.7 15.5 23.3



#66
 Benzyl Chloride
 Concen: 8.180 ppbv
 RT: 17.16 min Scan# 4423
 Delta R.T. 0.01 min
 Lab File: VL033157.D
 Acq: 4 Feb 2019 15:04

Tgt Ion: 91 Resp: 1879382
 Ion Ratio Lower Upper
 91 100
 126 17.3 14.9 22.3
 128 5.5 4.7 7.1





#67

sec-Butylbenzene

Concen: 7.346 ppbv

RT: 17.46 min Scan# 4518

Delta R.T. 0.01 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

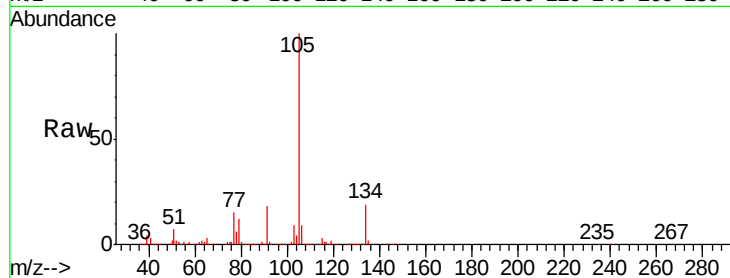
ICVVL020419

Tgt Ion: 105 Resp: 5311900

Ion Ratio Lower Upper

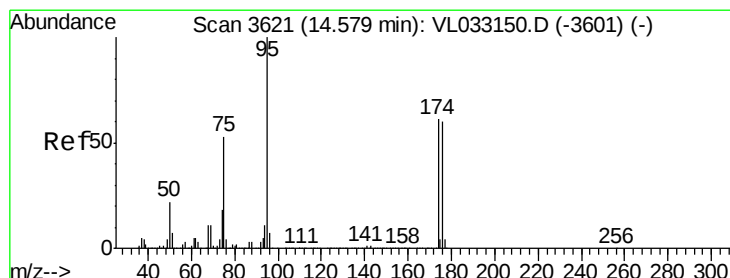
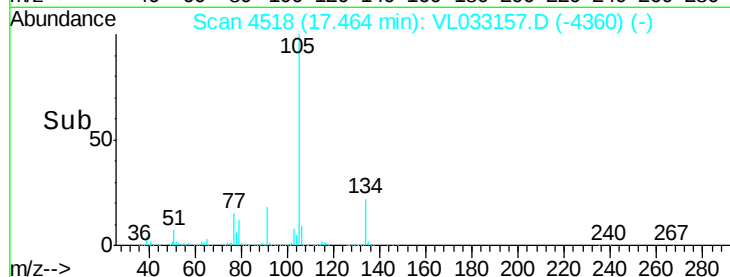
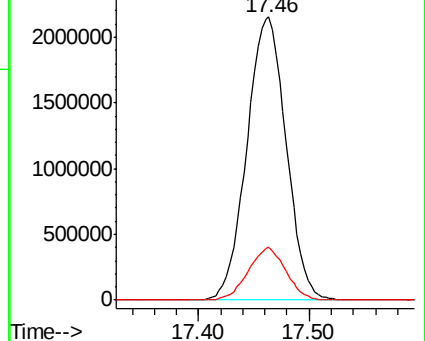
105 100

134 18.0 14.4 21.6



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: 9.892 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. 0.01 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

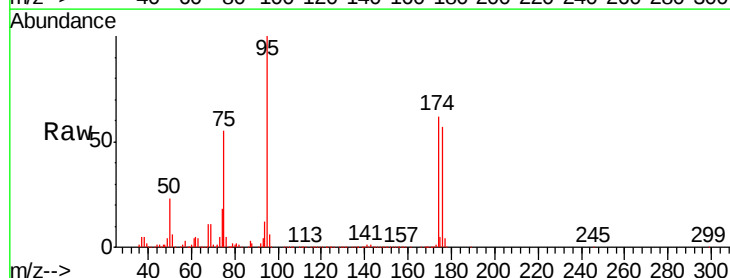
Tgt Ion: 95 Resp: 2449677

Ion Ratio Lower Upper

95 100

174 59.5 49.2 73.8

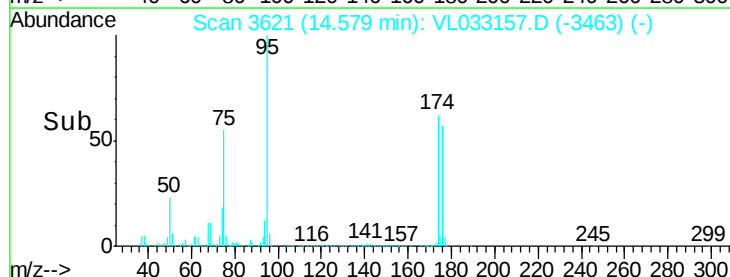
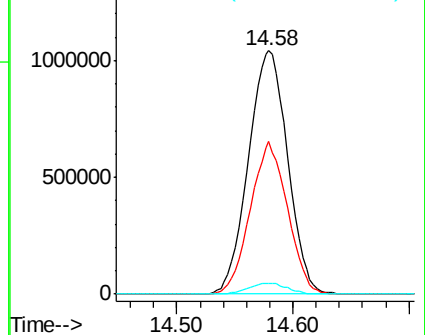
175 4.5 3.7 5.5

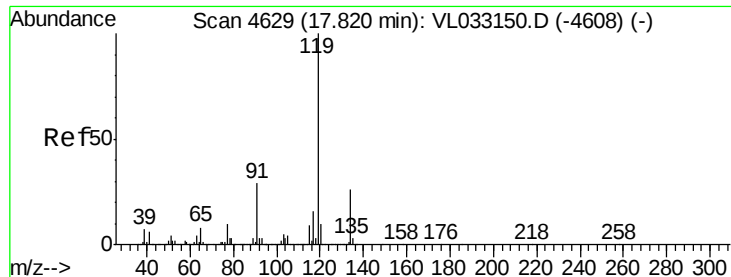


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 7.307 ppbv

RT: 17.82 min Scan# 4628

Delta R.T. 0.00 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

ICVVL020419

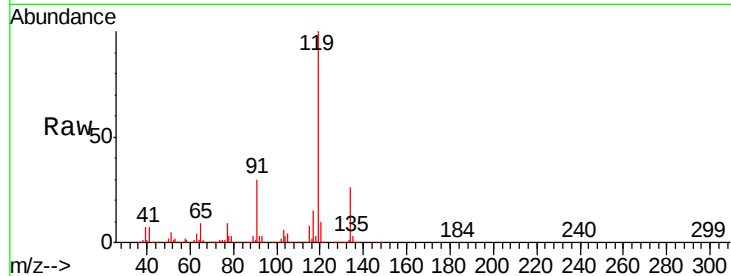
Tgt Ion: 119 Resp: 4366055

Ion Ratio Lower Upper

119 100

134 25.1 20.3 30.5

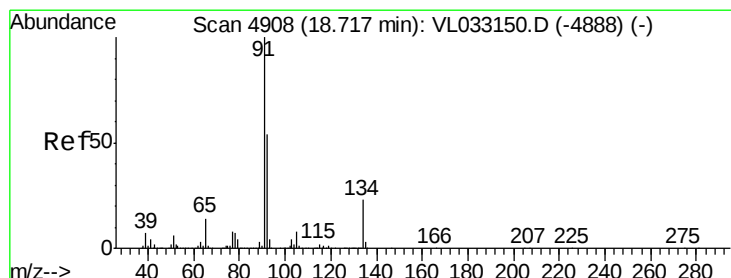
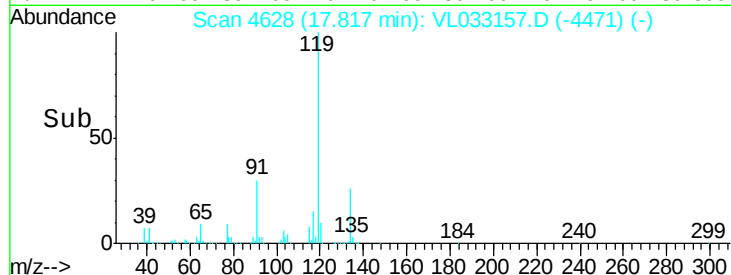
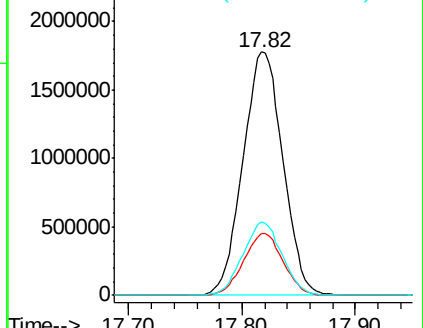
91 29.5 22.6 33.8



Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 7.084 ppbv

RT: 18.72 min Scan# 4908

Delta R.T. 0.01 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

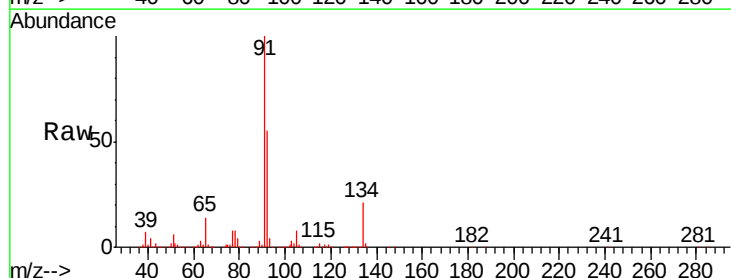
Tgt Ion: 91 Resp: 4605674

Ion Ratio Lower Upper

91 100

92 53.6 43.7 65.5

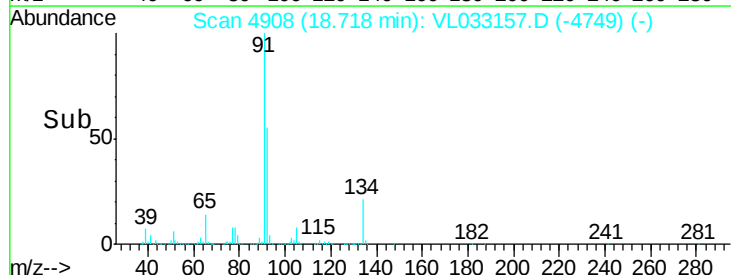
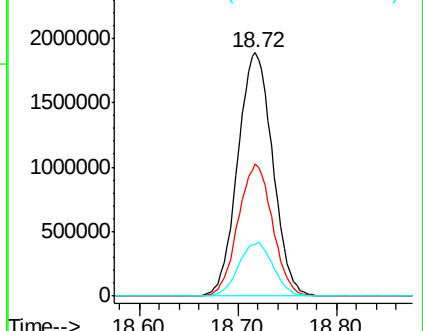
134 21.8 18.4 27.6

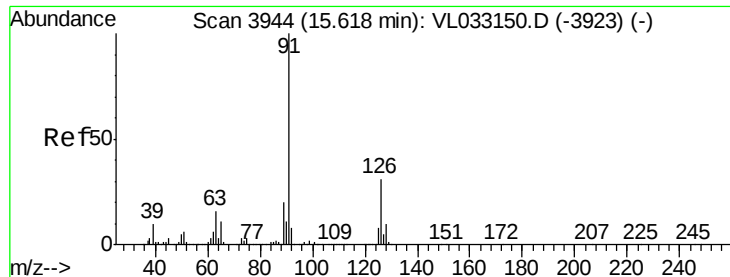


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 7.750 ppbv

RT: 15.62 min Scan# 3944

Delta R.T. 0.01 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

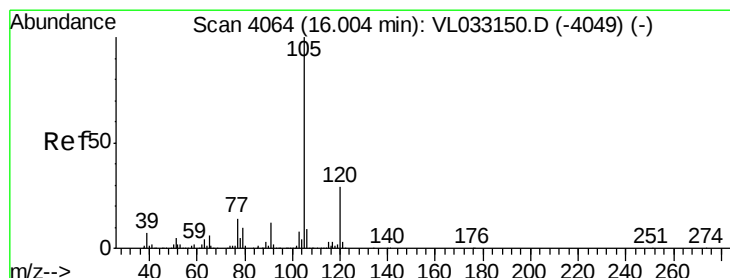
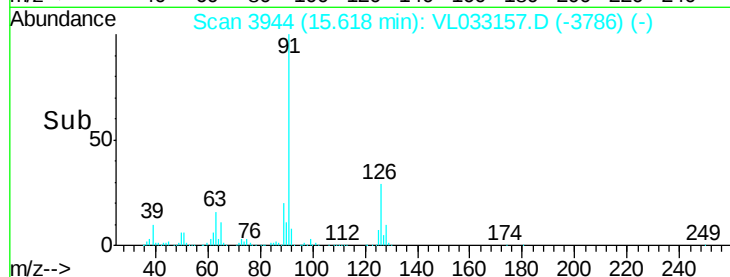
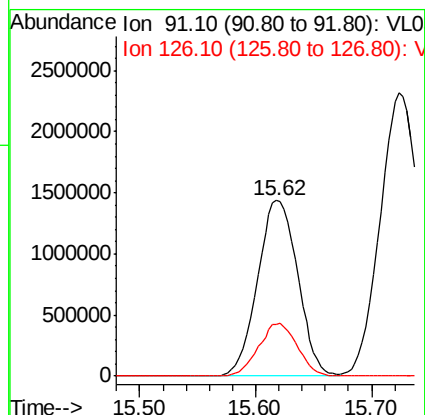
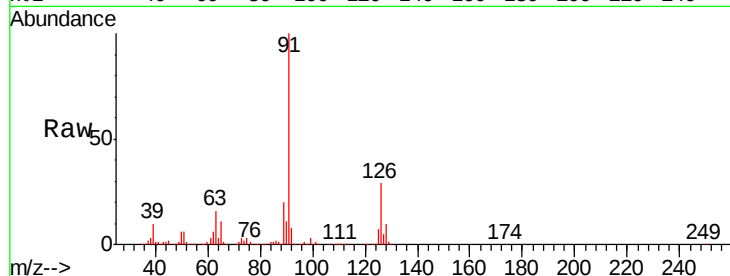
ICVVL020419

Tgt Ion: 91 Resp: 3464614

Ion Ratio Lower Upper

91 100

126 29.2 12.3 49.1



#72

4-Ethyltoluene

Concen: 7.759 ppbv

RT: 16.00 min Scan# 4063

Delta R.T. 0.00 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

Tgt Ion: 105 Resp: 3663893

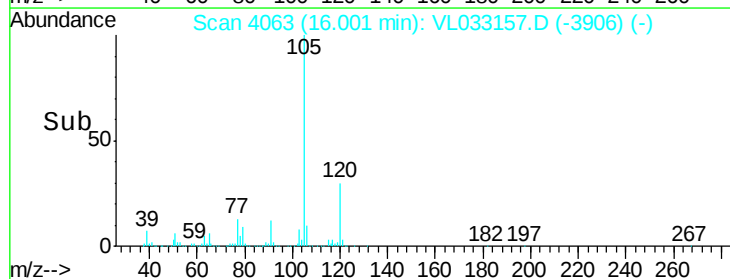
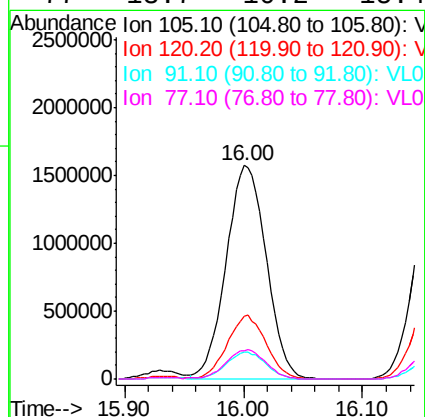
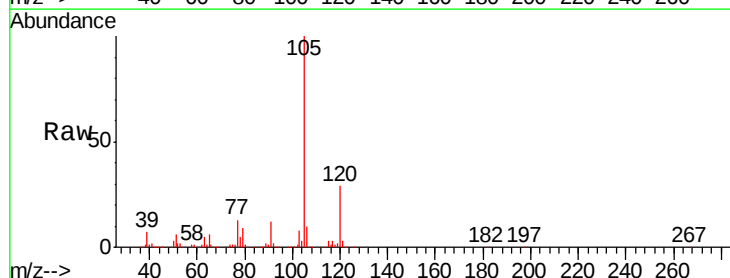
Ion Ratio Lower Upper

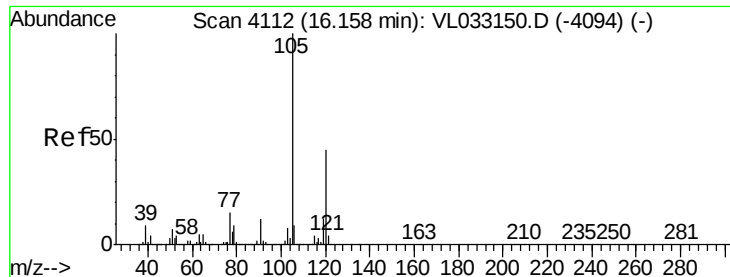
105 100

120 28.7 23.2 34.8

91 12.6 9.5 14.3

77 13.7 10.2 15.4





#73

1,3,5-Trimethylbenzene

Concen: 7.543 ppbv

RT: 16.16 min Scan# 4113

Delta R.T. 0.01 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

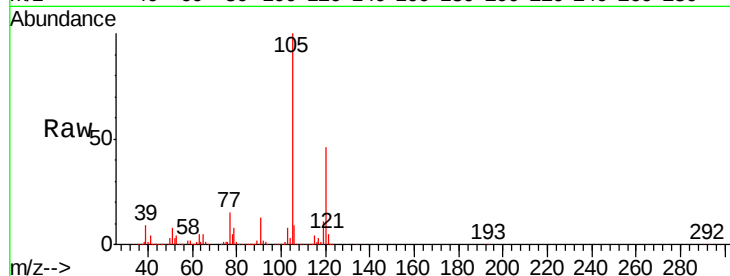
ICVVL020419

Tgt Ion:105 Resp: 3433858

Ion Ratio Lower Upper

105 100

120 45.6 38.0 57.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

1500000

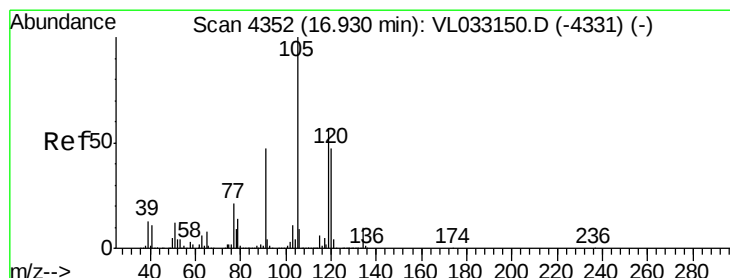
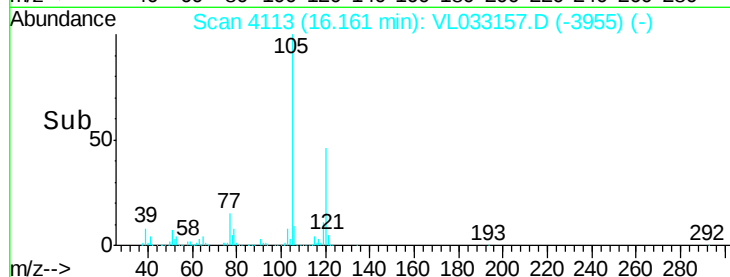
1000000

500000

0

16.10 16.20

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 7.233 ppbv

RT: 16.93 min Scan# 4352

Delta R.T. 0.01 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

Tgt Ion:105 Resp: 3358798

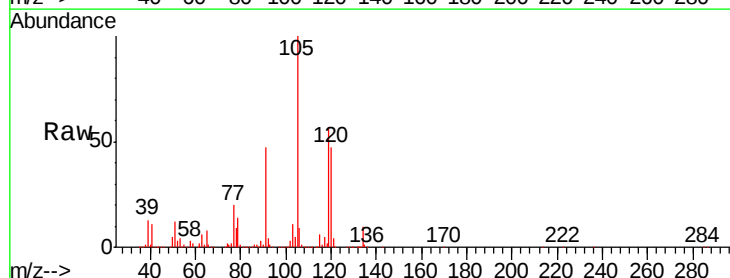
Ion Ratio Lower Upper

105 100

120 47.0 38.2 57.4

91 46.6 35.0 52.4

77 20.2 15.8 23.6



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

2000000

1500000

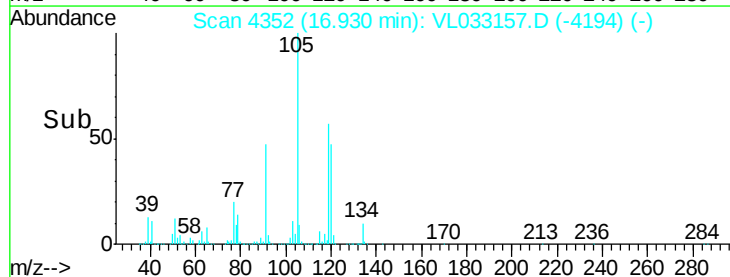
1000000

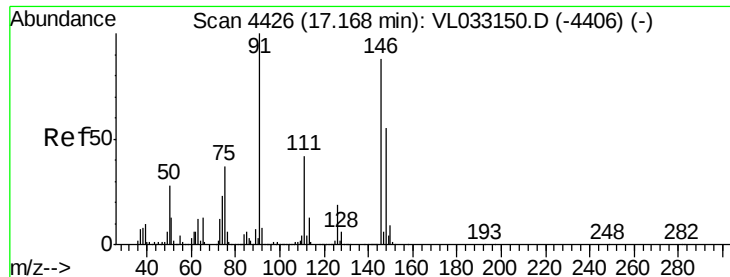
500000

0

16.80 16.90 17.00

Time-->





#75

1,3-Dichlorobenzene

Concen: 7.133 ppbv

RT: 17.17 min Scan# 4426

Delta R.T. 0.01 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

ICVVL020419

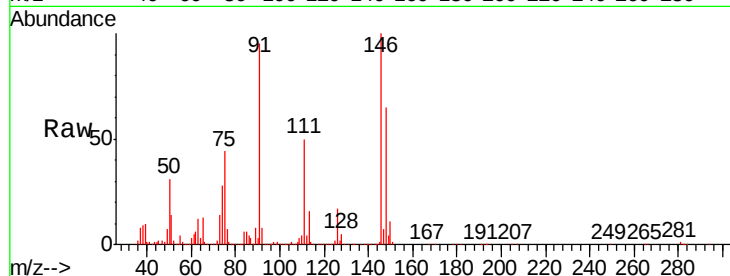
Tgt Ion:146 Resp: 1828582

Ion Ratio Lower Upper

146 100

111 48.1 24.0 72.0

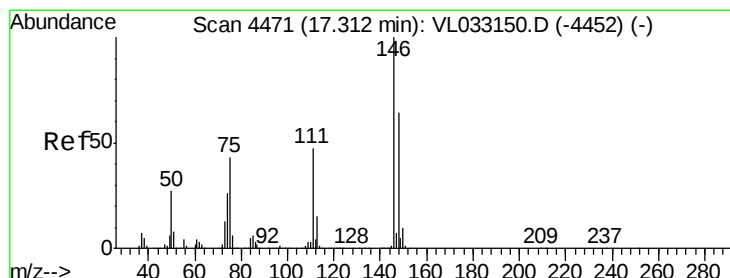
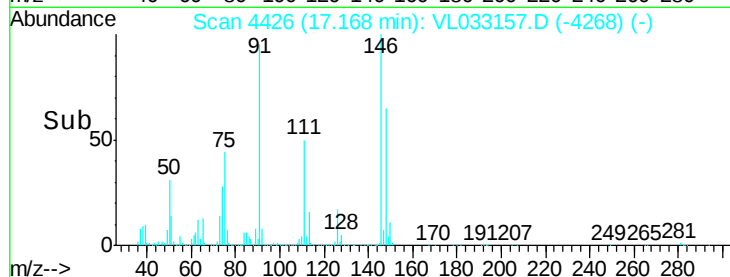
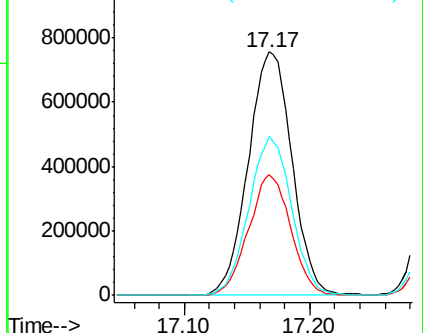
148 64.0 31.9 95.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 7.219 ppbv

RT: 17.31 min Scan# 4470

Delta R.T. 0.00 min

Lab File: VL033157.D

Acq: 4 Feb 2019 15:04

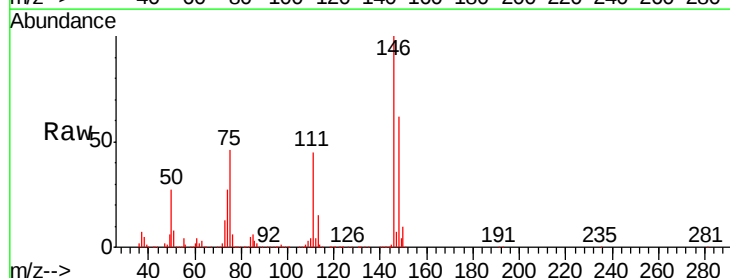
Tgt Ion:146 Resp: 1858994

Ion Ratio Lower Upper

146 100

111 46.5 23.4 70.0

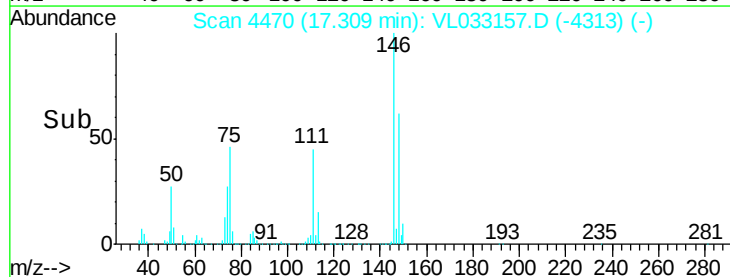
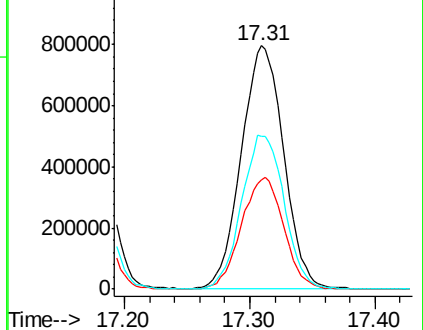
148 64.3 31.9 95.9

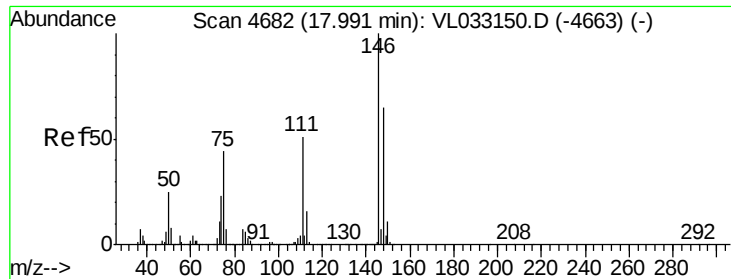


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

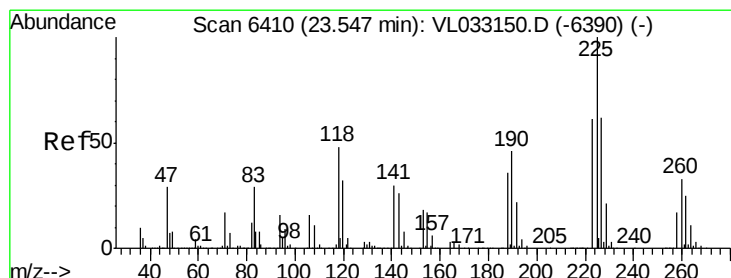
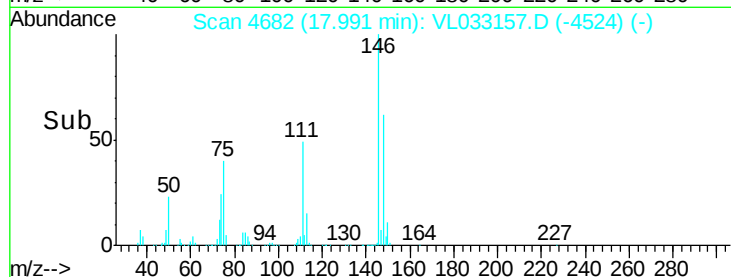
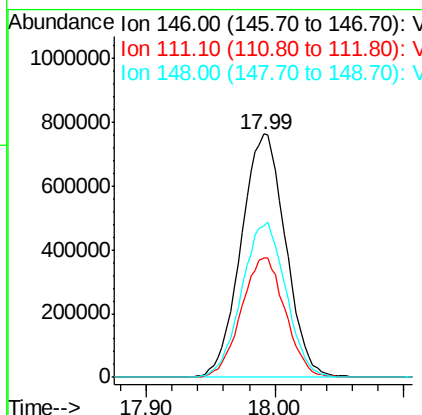
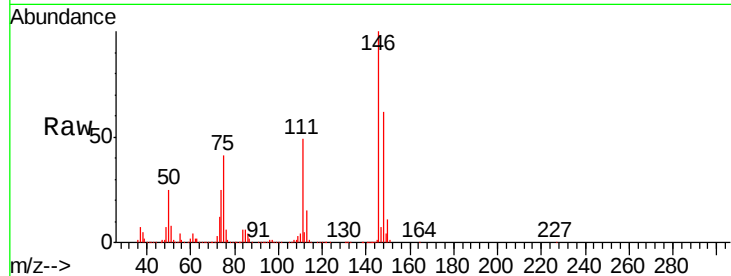




#77
 1,2-Dichlorobenzene
 Concen: 7.192 ppbv
 RT: 17.99 min Scan# 4682
 Delta R.T. 0.01 min
 Lab File: VL033157.D
 Acq: 4 Feb 2019 15:04

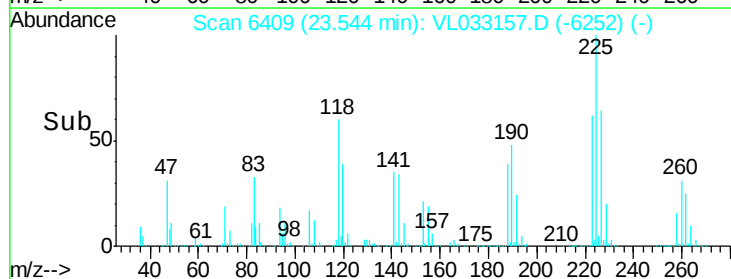
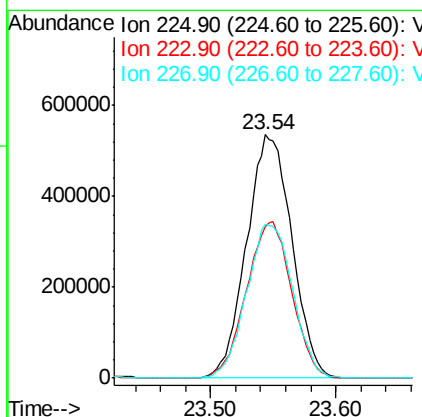
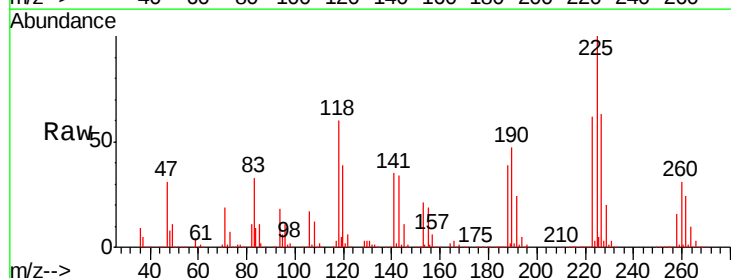
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL020419

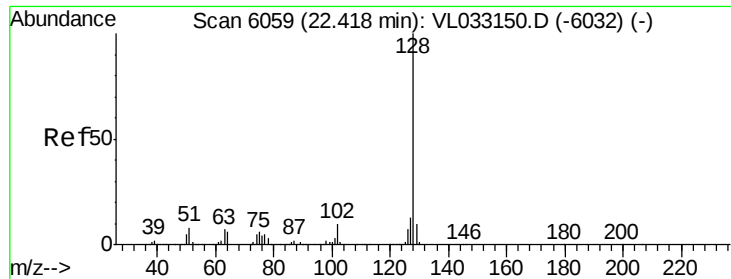
Tgt Ion:146 Resp: 1833837
 Ion Ratio Lower Upper
 146 100
 111 48.7 25.1 75.3
 148 63.5 32.0 96.2



#78
 Hexachloro-1,3-Butadiene
 Concen: 10.627 ppbv
 RT: 23.54 min Scan# 6409
 Delta R.T. 0.00 min
 Lab File: VL033157.D
 Acq: 4 Feb 2019 15:04

Tgt Ion:225 Resp: 1347901
 Ion Ratio Lower Upper
 225 100
 223 64.2 50.2 75.4
 227 64.5 51.1 76.7

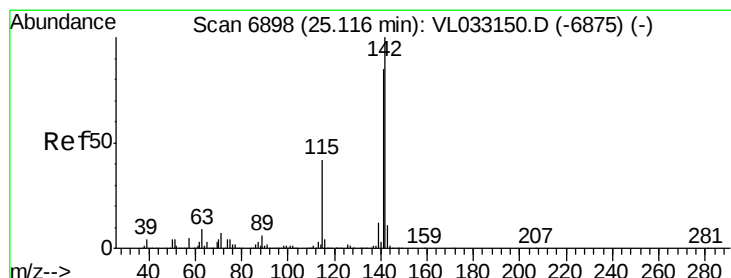
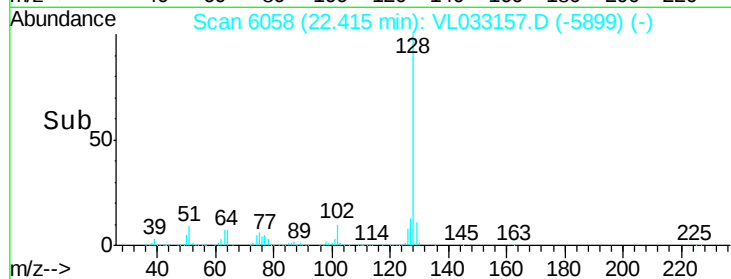
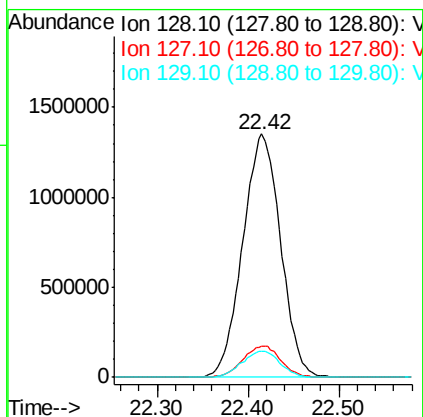
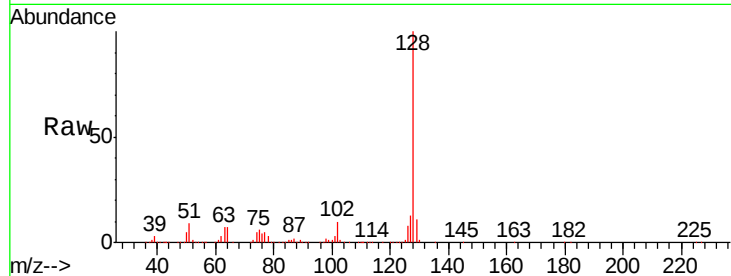




#79
Naphthalene
Concen: 7.182 ppbv
RT: 22.42 min Scan# 6058
Delta R.T. 0.01 min
Lab File: VL033157.D
Acq: 4 Feb 2019 15:04

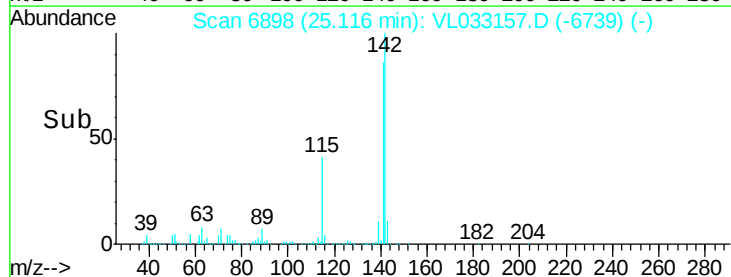
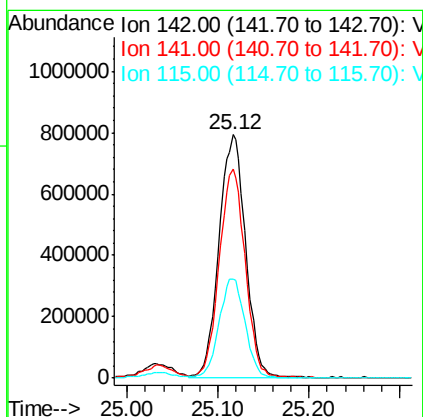
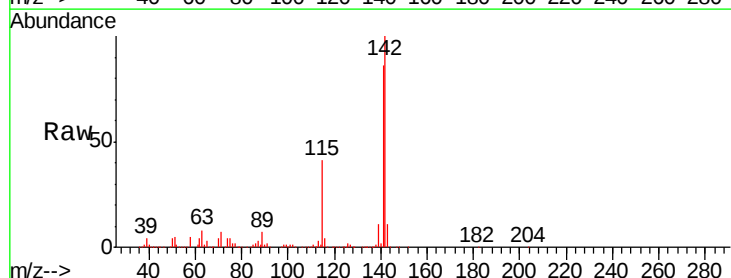
Instrument :
MSVOA_L
ClientSampleId :
ICVVL020419

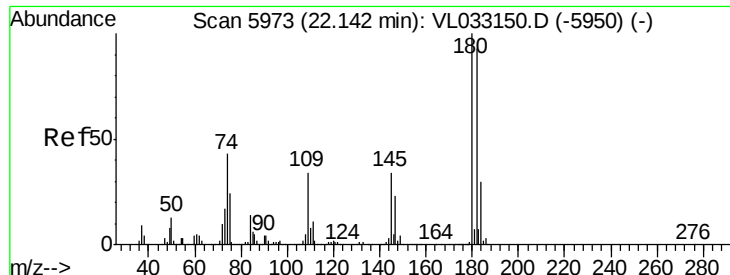
Tgt Ion:128 Resp: 3905036
Ion Ratio Lower Upper
128 100
127 13.0 10.6 16.0
129 10.9 9.0 13.4



#80
Naphthalene, 2-methyl-
Concen: 5.760 ppbv
RT: 25.12 min Scan# 6898
Delta R.T. 0.01 min
Lab File: VL033157.D
Acq: 4 Feb 2019 15:04

Tgt Ion:142 Resp: 1596850
Ion Ratio Lower Upper
142 100
141 85.2 66.5 99.7
115 40.3 31.3 46.9

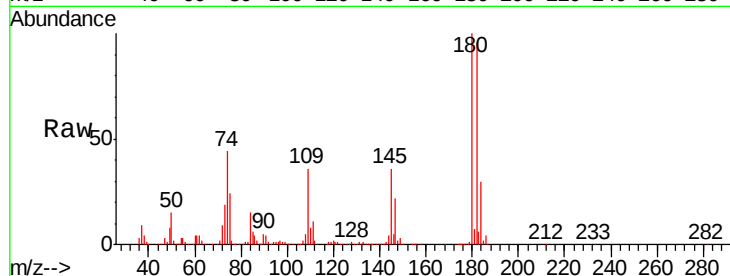




#81
 1,2,4-Trichlorobenzene
 Concen: 7.081 ppbv
 RT: 22.14 min Scan# 5972
 Delta R.T. 0.01 min
 Lab File: VL033157.D
 Acq: 4 Feb 2019 15:04

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL020419

Tgt Ion:180 Resp: 1744821
 Ion Ratio Lower Upper
 180 100
 182 96.2 76.2 114.4
 184 30.4 24.6 36.8



Abundance Ion 180.00 (179.70 to 180.70): V
 800000 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V

