

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041619\
 Data File : VL033589.D
 Acq On : 16 Apr 2019 12:09
 Operator : SY/AP
 Sample : VL0416ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0416ABS01

Quant Time: Apr 17 06:40:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 16:00:50 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	864892	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2148908	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2278929m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1770117	9.91	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	967577	7.671	ppbv	98
3) Chlorodifluoromethane	3.02	51	839420	8.430	ppbv	99
4) Chloromethane	3.17	50	453618	8.609	ppbv	99
5) Vinyl Chloride	3.29	62	456777	8.823	ppbv	100
6) Bromomethane	3.52	94	292361	8.788	ppbv	92
7) Chloroethane	3.60	64	172446	8.950	ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	1151928	8.570	ppbv	99
9) Propene	3.04	41	355012	8.490	ppbv	98
10) Heptane	8.25	43	981563	8.782	ppbv	98
11) Trichlorofluoromethane	4.01	101	1367632	8.797	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	930655	8.913	ppbv	100
13) Ethanol	3.65	45	118205	10.924	ppbv	65
14) Bromoethene	3.79	108	376363	9.037	ppbv	99
15) Acetone	3.90	43	915642	8.805	ppbv	99
16) 1,3-Butadiene	3.36	39	396150	9.604	ppbv	95
17) tert-Butyl alcohol	4.36	59	182774	9.559	ppbv	100
18) 1,1-Dichloroethene	4.35	96	407117	9.077	ppbv	95
19) Isopropyl Alcohol	4.02	45	659008	10.019	ppbv	# 98
20) Methylene Chloride	4.41	84	360641	8.170	ppbv	96
21) Allyl Chloride	4.48	41	595265	9.055	ppbv	100
22) trans-1,2-Dichloroethene	4.96	96	421156	9.000	ppbv	98
23) Vinyl Acetate	5.16	43	1317562	8.901	ppbv	99
24) 1,1-Dichloroethane	5.09	63	940991	8.369	ppbv	100
25) Ethyl Acetate	5.77	43	1598163	8.283	ppbv	100
26) Hexane	5.78	57	720507	8.398	ppbv	98
27) Carbon Disulfide	4.62	76	1007711	9.878	ppbv	98
28) Methyl tert-Butyl Ether	5.11	73	1089639	8.818	ppbv	100
29) Chloroform	5.85	83	1251306	8.509	ppbv	96
30) Cyclohexane	7.25	84	637166	9.388	ppbv	100
31) cis-1,2-Dichloroethene	5.64	61	743758	8.720	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1238512	8.844	ppbv	100
34) 2-Butanone	5.33	43	1048186	8.119	ppbv	100
35) Carbon Tetrachloride	7.13	117	1367300	8.983	ppbv	99
36) Benzene	7.00	78	1520314	8.432	ppbv	98
37) 1,2-Dichloroethane	6.42	62	952188	7.879	ppbv	100
38) Trichloroethene	7.96	130	641727	9.457	ppbv	98
39) 1,2-Dichloropropane	7.74	63	573328	8.117	ppbv	97
40) 1,4-Dioxane	7.96	88	243307	9.658	ppbv	78
41) Tetrahydrofuran	6.15	42	590225	8.312	ppbv	99
42) Bromodichloromethane	7.92	83	1408636	8.557	ppbv	100
43) Methyl Methacrylate	8.14	69	630398	8.610	ppbv	99

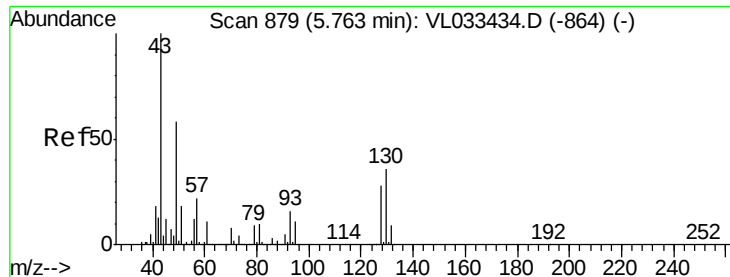
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041619\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2650553	8.412	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	869756	9.676	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	992628	9.456	ppbv	97
47) 1,1,2-Trichloroethane	9.62	97	675477	8.422	ppbv	98
48) Dibromochloromethane	10.45	129	1235210	9.131	ppbv	99
49) Bromoform	13.20	173	1130417	8.747	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	1635737	8.652	ppbv	99
51) 2-Hexanone	10.27	43	1284158	9.106	ppbv #	99
52) Tetrachloroethene	11.37	164	610046	8.967	ppbv	98
53) Toluene	9.95	91	1881104	8.978	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1067599	8.510	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.28	131	881615	8.441	ppbv	99
57) Chlorobenzene	12.30	112	1450648	8.198	ppbv	97
58) Ethyl Benzene	12.87	91	2678382	8.801	ppbv	100
59) m/p-Xylene	13.15	91	4503428m	16.567	ppbv	
60) o-Xylene	13.85	91	2252944	8.571	ppbv	99
61) Styrene	13.69	104	1657537	9.188	ppbv	100
62) Isopropylbenzene	14.83	105	3167419	8.509	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1595148	8.241	ppbv	99
64) n-propylbenzene	15.72	120	824096	8.725	ppbv	98
65) tert-Butylbenzene	16.91	119	2877687	8.773	ppbv	99
66) Benzyl Chloride	17.16	91	1642108	10.766	ppbv	99
67) sec-Butylbenzene	17.46	105	4090222	8.768	ppbv	100
69) p-Isopropyltoluene	17.82	119	3417300	8.997	ppbv	100
70) n-Butylbenzene	18.72	91	3574051	8.881	ppbv	100
71) 2-Chlorotoluene	15.62	91	2459619	8.690	ppbv	99
72) 4-Ethyltoluene	16.00	105	2658374	8.997	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	2568132	9.082	ppbv	98
74) 1,2,4-Trimethylbenzene	16.93	105	2653101	8.754	ppbv	99
75) 1,3-Dichlorobenzene	17.17	146	1600302	8.543	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1593644	8.732	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1546161	8.700	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	917519	7.799	ppbv	100
79) Naphthalene	22.41	128	2599813	10.021	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	877326	10.076	ppbv	97
81) 1,2,4-Trichlorobenzene	22.14	180	1364080	9.479	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.00 min

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MSVOA_L

ClientSampleId :

VL0416ABS01

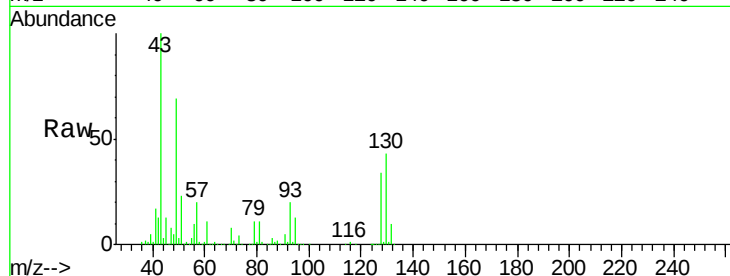
Tot Ion: 49 Resp: 864892

Ion Ratio Lower Upper

49 100

128 49.2 24.0 72.0

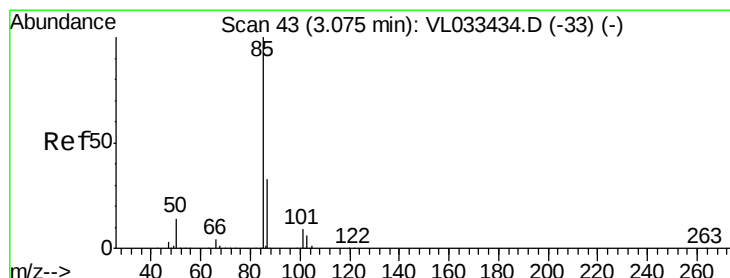
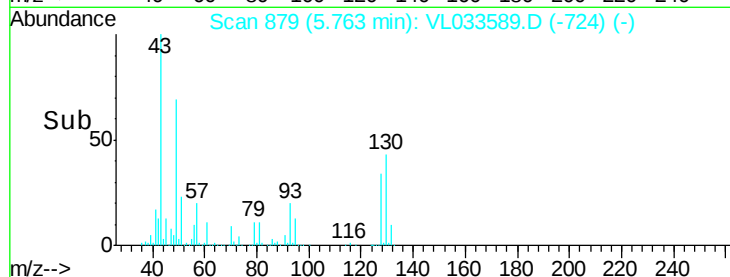
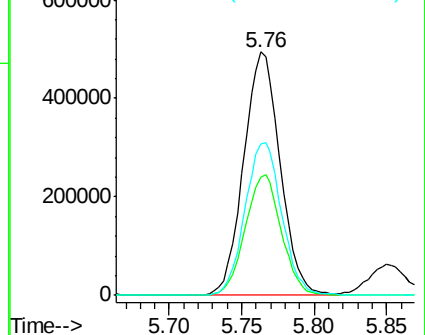
130 63.4 31.2 93.6



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 7.671 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033589.D

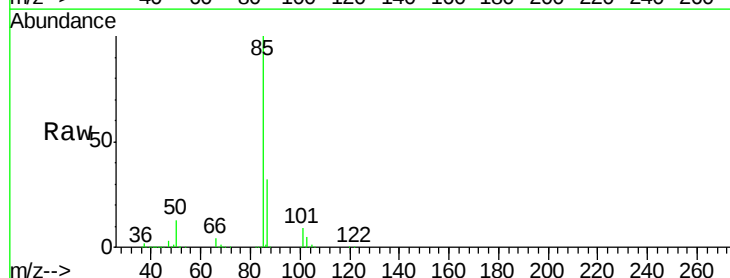
Acq: 16 Apr 2019 12:09

Tgt Ion: 85 Resp: 967577

Ion Ratio Lower Upper

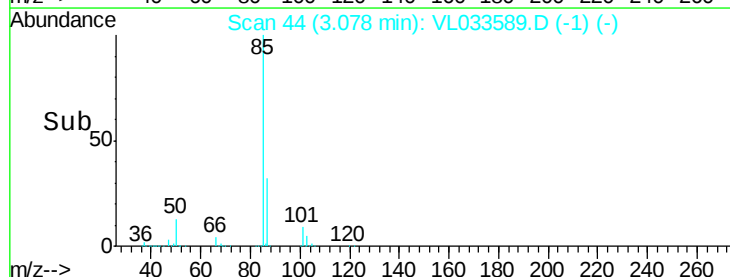
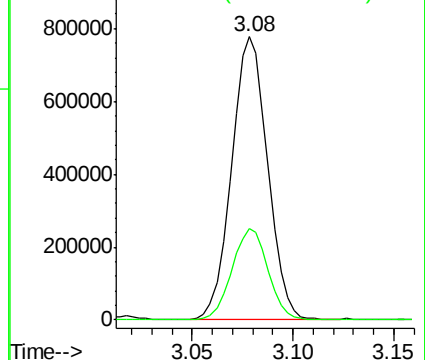
85 100

87 32.2 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 8.430 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

Instrument :

MSVOA_L

ClientSampleId :

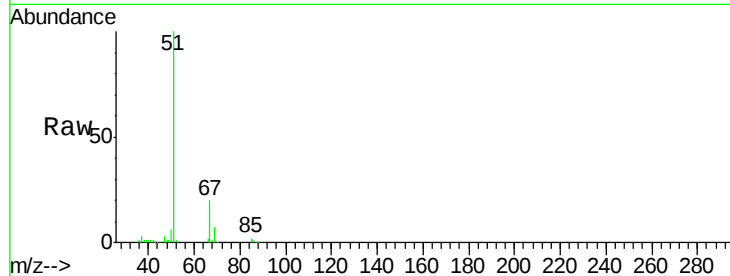
VL0416ABS01

Tot Ion: 51 Resp: 839420

Ion Ratio Lower Upper

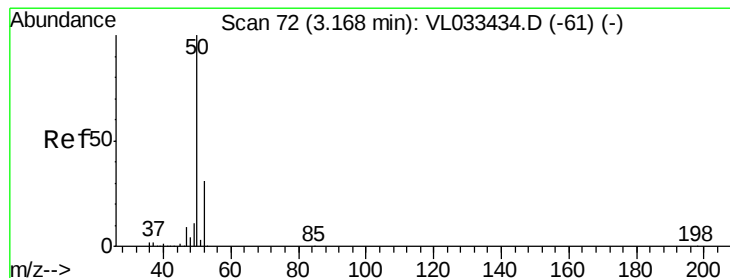
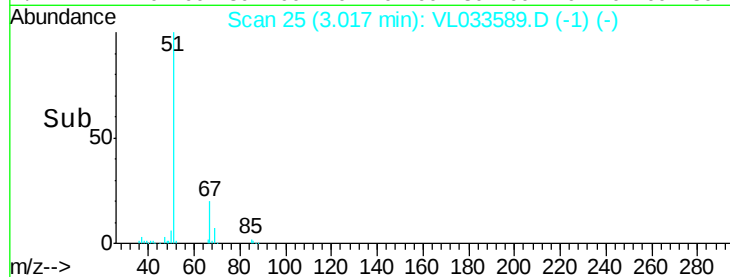
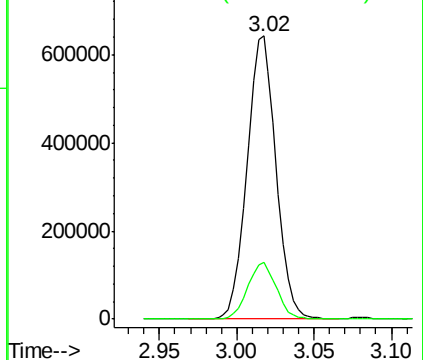
51 100

67 19.9 15.7 23.5



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 8.609 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033589.D

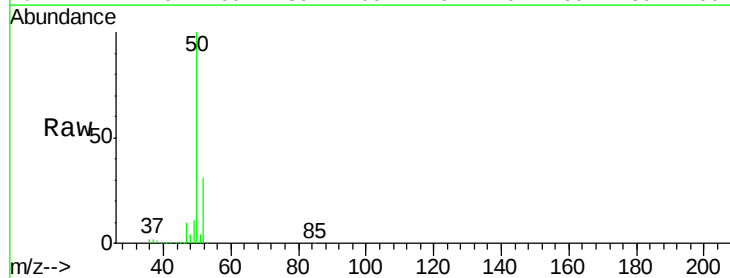
Acq: 16 Apr 2019 12:09

Tgt Ion: 50 Resp: 453618

Ion Ratio Lower Upper

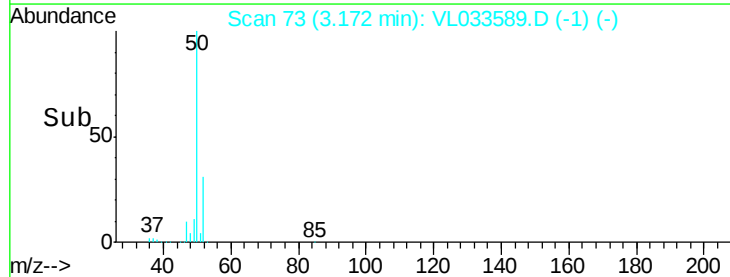
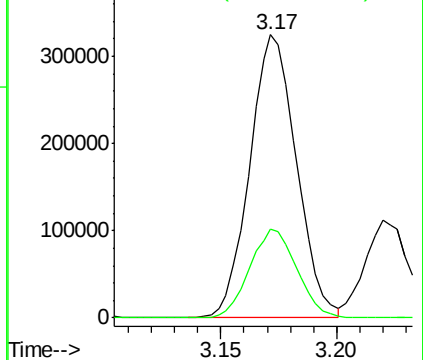
50 100

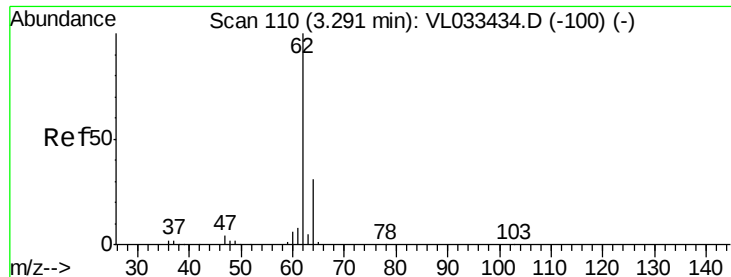
52 31.8 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.823 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

Instrument :

MSVOA_L

ClientSampleId :

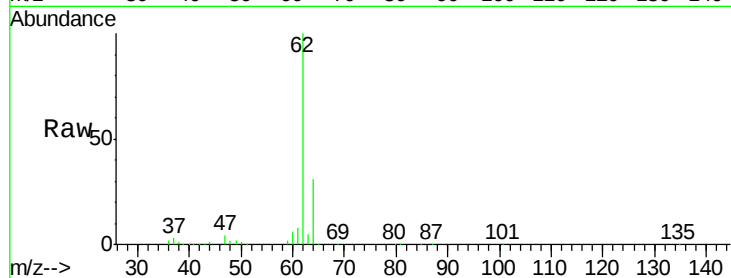
VL0416ABS01

Tot Ion: 62 Resp: 456777

Ion Ratio Lower Upper

62 100

64 30.9 24.9 37.3



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.29

400000

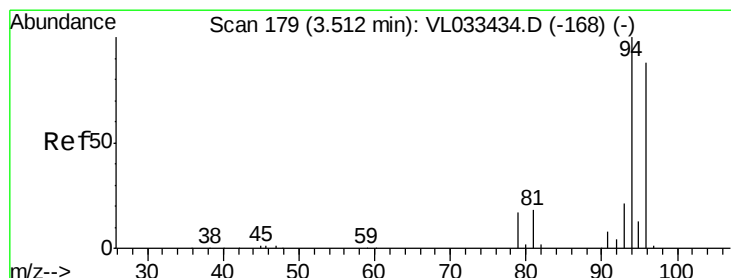
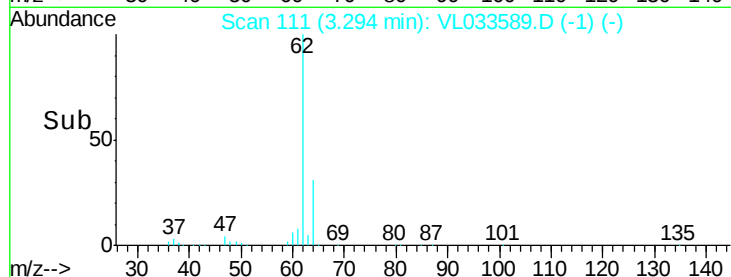
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 8.788 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033589.D

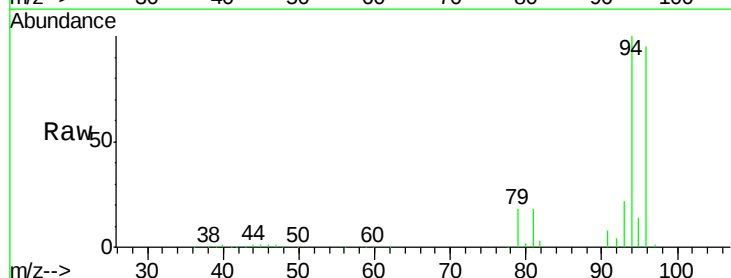
Acq: 16 Apr 2019 12:09

Tgt Ion: 94 Resp: 292361

Ion Ratio Lower Upper

94 100

96 95.0 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.52

200000

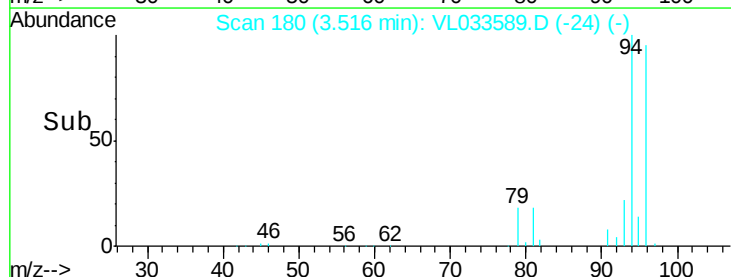
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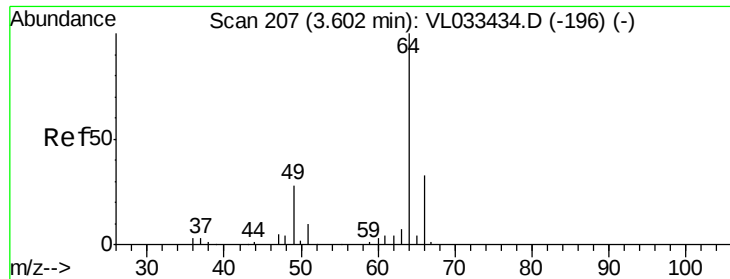
100000

50000

0

Time-->





#7

Chloroethane

Concen: 8.950 ppbv

RT: 3.60 min Scan# 207

Delta R.T. -0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

Instrument :

MSVOA_L

ClientSampleId :

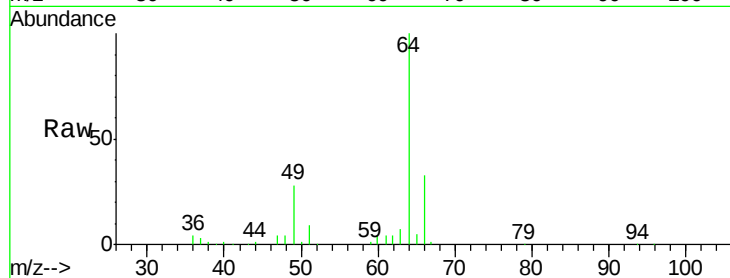
VL0416ABS01

Tot Ion: 64 Resp: 172446

Ion Ratio Lower Upper

64 100

66 32.8 26.7 40.1



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

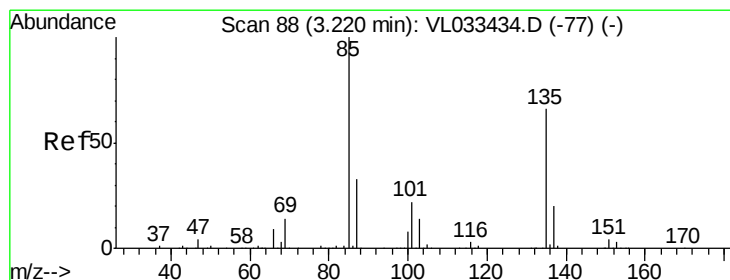
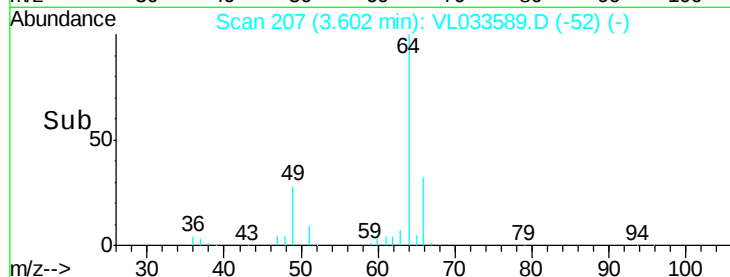
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 8.570 ppbv

RT: 3.22 min Scan# 89

Delta R.T. 0.00 min

Lab File: VL033589.D

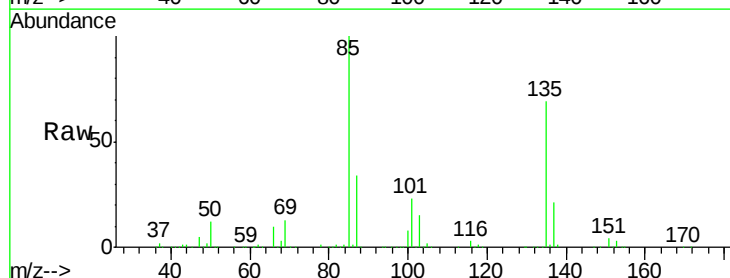
Acq: 16 Apr 2019 12:09

Tgt Ion: 85 Resp: 1151928

Ion Ratio Lower Upper

85 100

135 68.5 54.0 81.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

1000000

800000

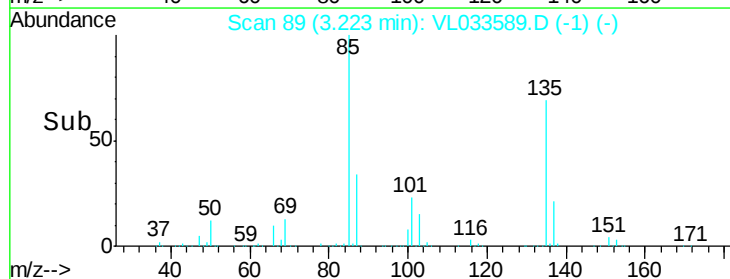
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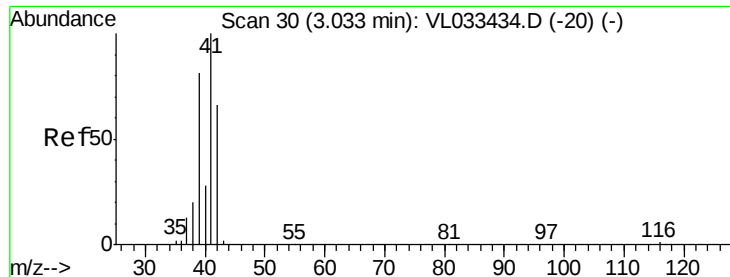
400000

200000

0

Time-->





#9

Propene

Concen: 8.490 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

Instrument :

MSVOA_L

ClientSampleId :

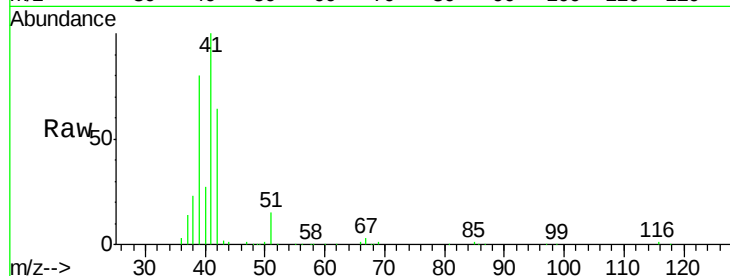
VL0416ABS01

Tot Ion: 41 Resp: 355012

Ion Ratio Lower Upper

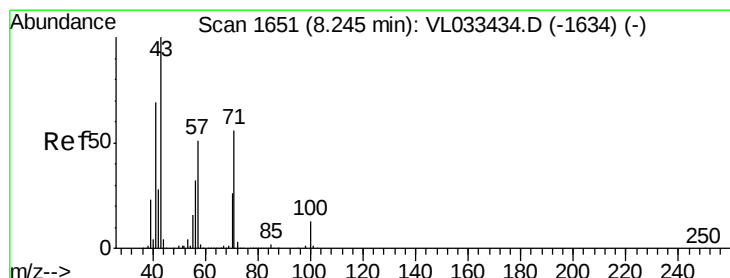
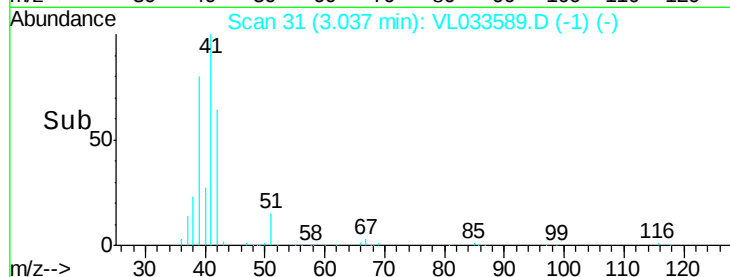
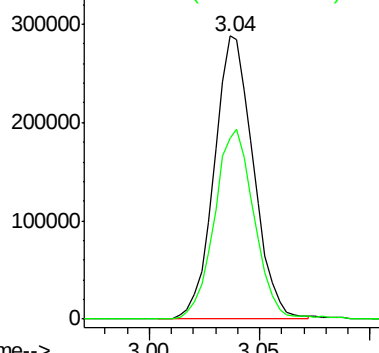
41 100

42 68.8 53.9 80.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 8.782 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.00 min

Lab File: VL033589.D

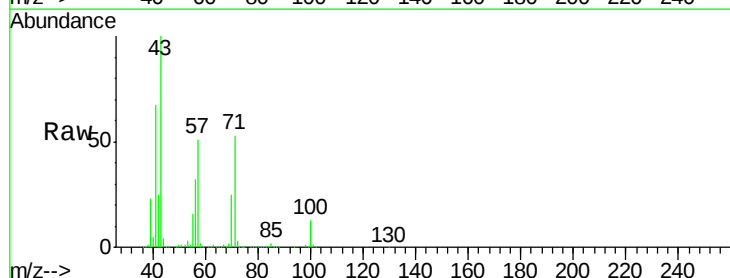
Acq: 16 Apr 2019 12:09

Tgt Ion: 43 Resp: 981563

Ion Ratio Lower Upper

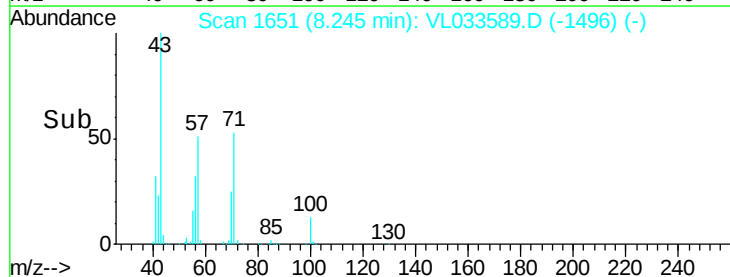
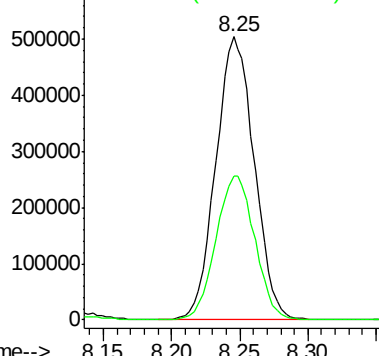
43 100

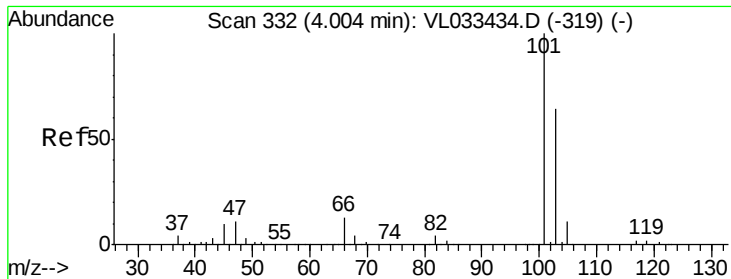
57 51.8 40.6 60.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

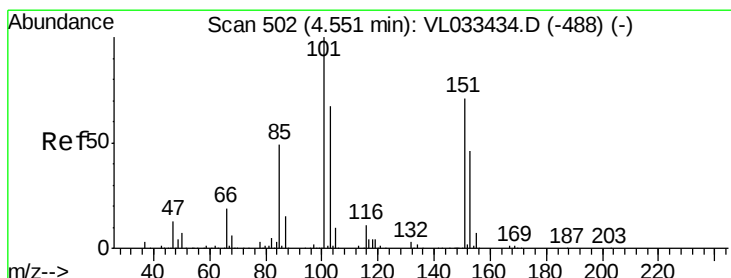
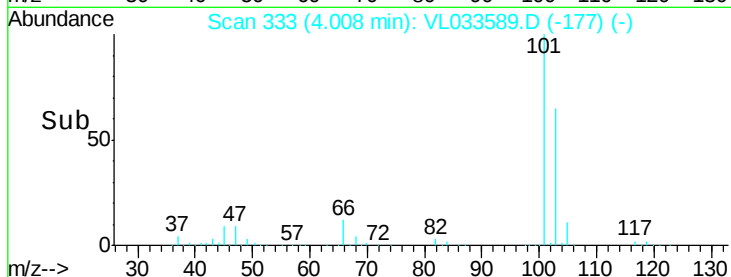
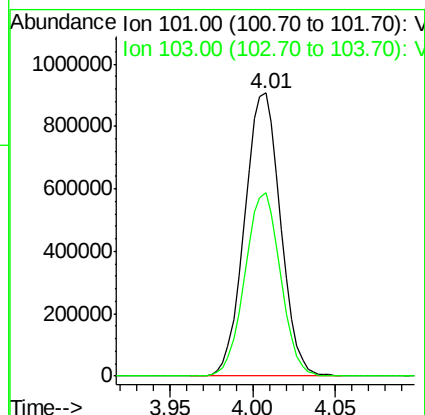
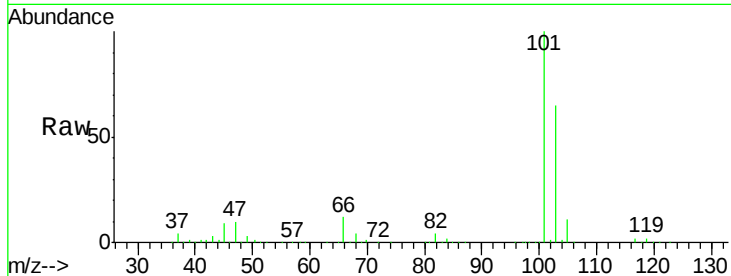




#11
 Trichlorofluoromethane
 Concen: 8.797 ppbv
 RT: 4.01 min Scan# 333
 Delta R.T. 0.00 min
 Lab File: VL033589.D
 Acq: 16 Apr 2019 12:09

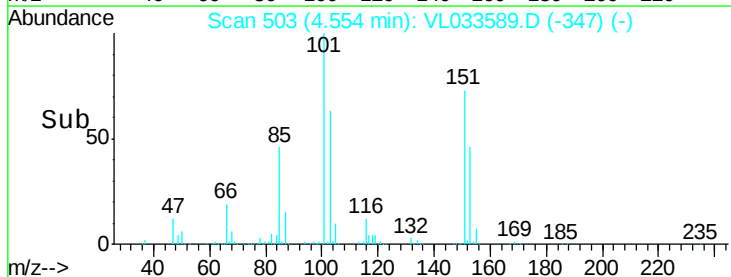
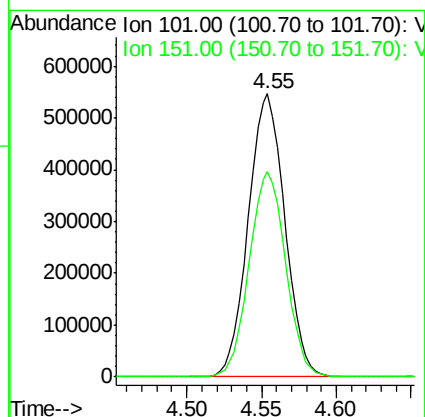
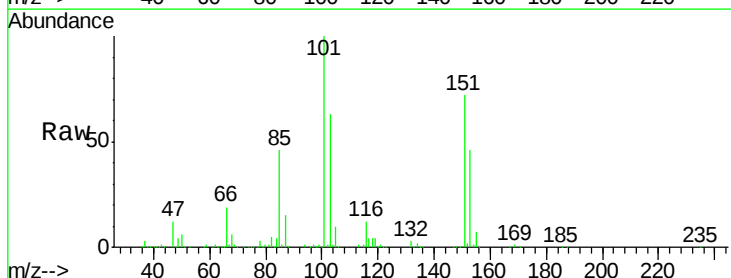
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0416ABS01

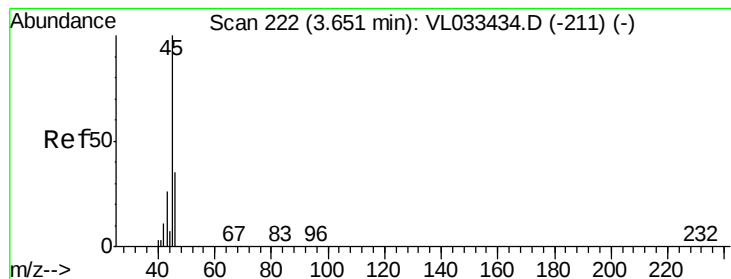
Tot Ion:101 Resp: 1367632
 Ion Ratio Lower Upper
 101 100
 103 64.7 51.3 76.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.913 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. 0.00 min
 Lab File: VL033589.D
 Acq: 16 Apr 2019 12:09

Tgt Ion:101 Resp: 930655
 Ion Ratio Lower Upper
 101 100
 151 72.4 57.7 86.5





#13

Ethanol

Concen: 10.924 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

Instrument :

MSVOA_L

ClientSampleId :

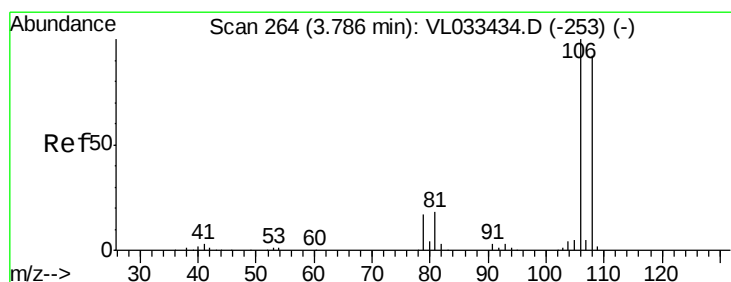
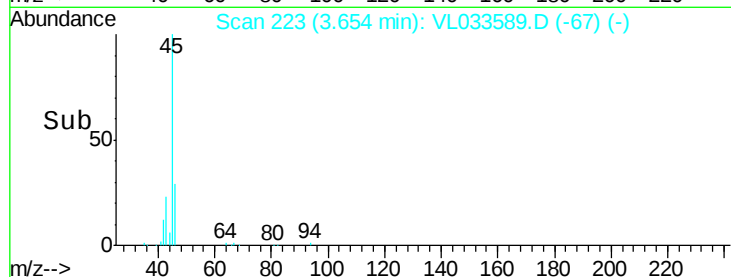
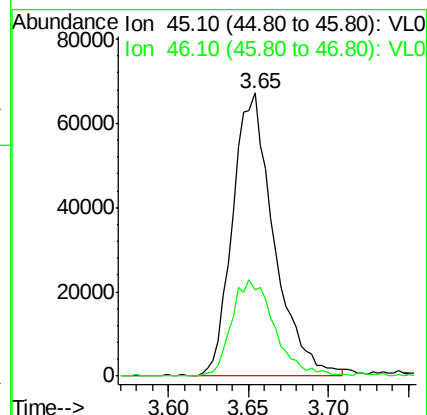
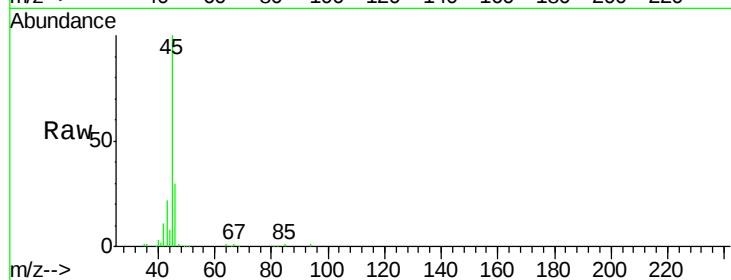
VL0416ABS01

Tot Ion: 45 Resp: 118205

Ion Ratio Lower Upper

45 100

46 36.0 25.4 101.8



#14

Bromoethene

Concen: 9.037 ppbv

RT: 3.79 min Scan# 265

Delta R.T. 0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

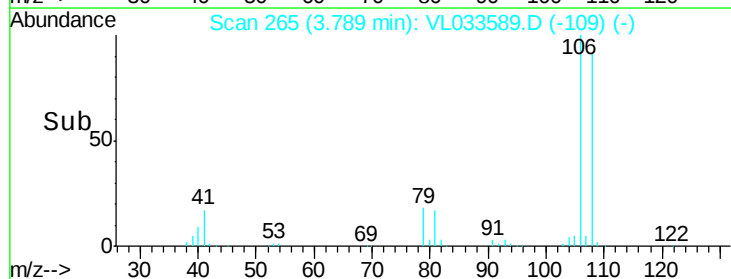
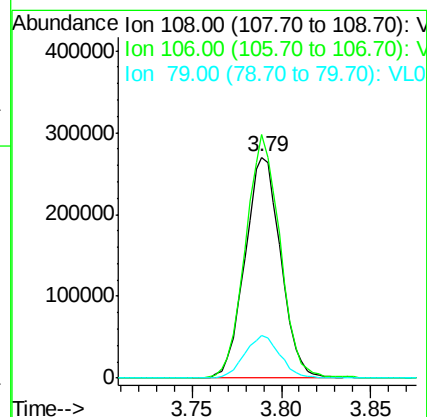
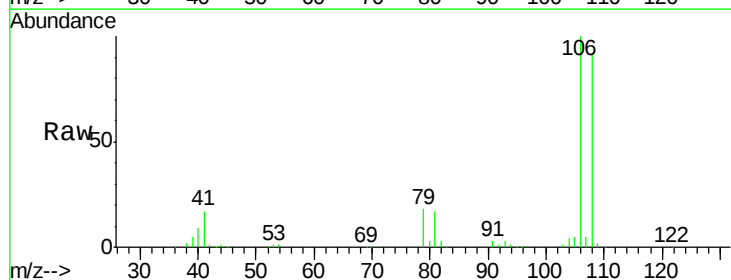
Tgt Ion: 108 Resp: 376363

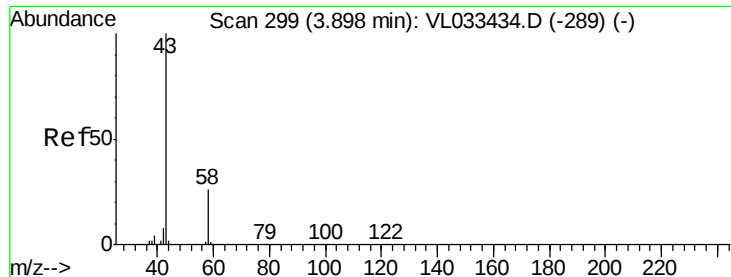
Ion Ratio Lower Upper

108 100

106 106.7 86.4 129.6

79 19.2 15.8 23.8





#15

Acetone

Concen: 8.805 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

Instrument :

MSVOA_L

ClientSampleId :

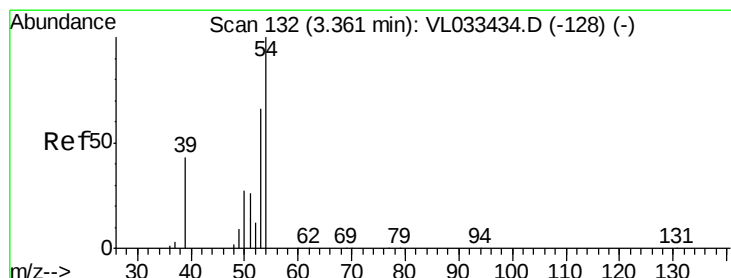
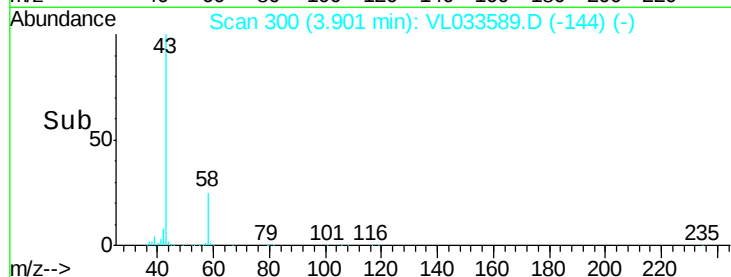
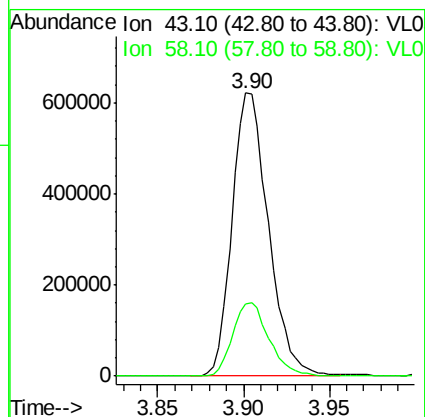
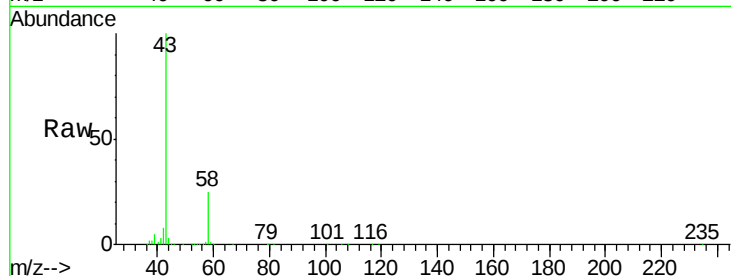
VL0416ABS01

Tot Ion: 43 Resp: 915642

Ion Ratio Lower Upper

43 100

58 26.1 20.5 30.7



#16

1,3-Butadiene

Concen: 9.604 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL033589.D

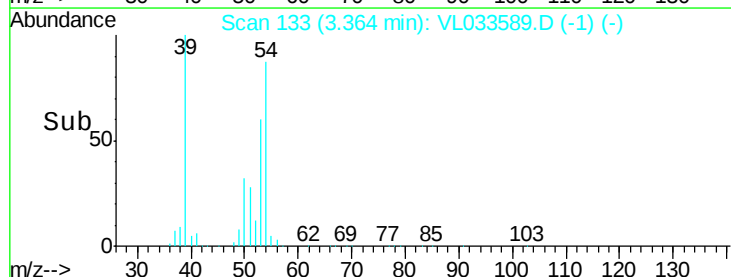
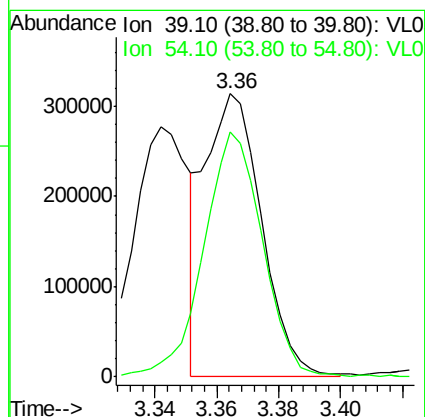
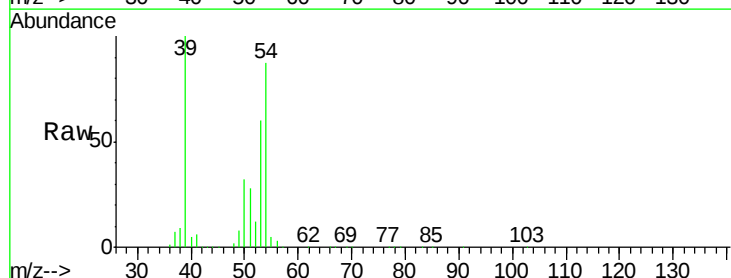
Acq: 16 Apr 2019 12:09

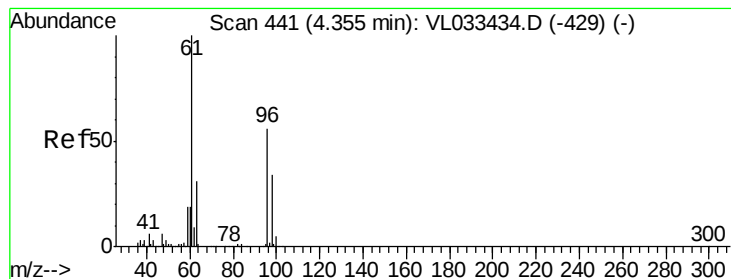
Tgt Ion: 39 Resp: 396150

Ion Ratio Lower Upper

39 100

54 91.3 69.4 104.2





#17

tert-Butyl alcohol

Concen: 9.559 ppbv

RT: 4.36 min Scan# 442

Delta R.T. 0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

Instrument :

MSVOA_L

ClientSampleId :

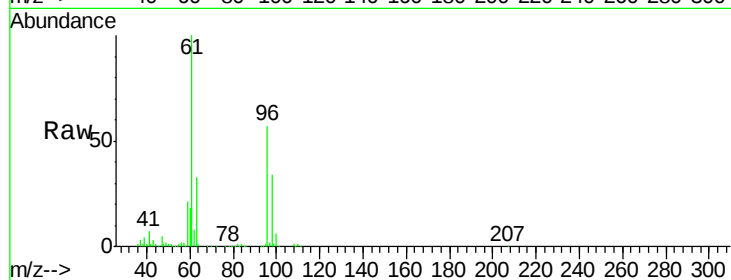
VL0416ABS01

Tot Ion: 59 Resp: 182774

Ion Ratio Lower Upper

59 100

57 9.9 7.8 11.8



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.36

100000

80000

60000

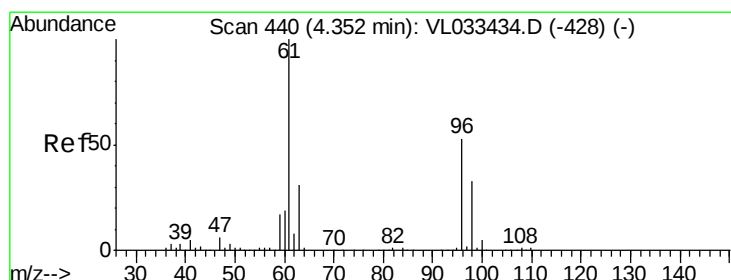
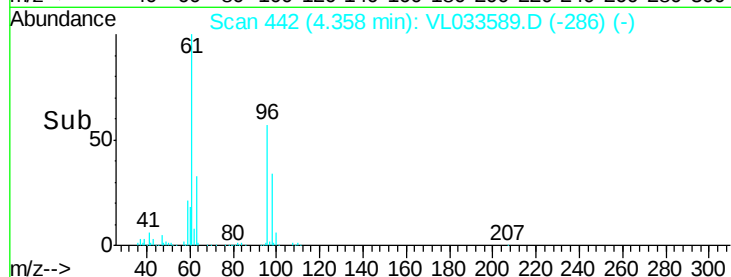
40000

20000

0

Time-->

4.30 4.35 4.40 4.45



#18

1,1-Dichloroethene

Concen: 9.077 ppbv

RT: 4.35 min Scan# 441

Delta R.T. 0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

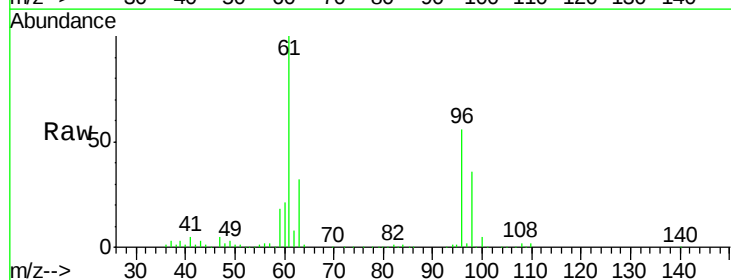
Tgt Ion: 96 Resp: 407117

Ion Ratio Lower Upper

96 100

61 178.5 149.8 224.6

98 63.5 48.7 73.1



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

4.35

600000

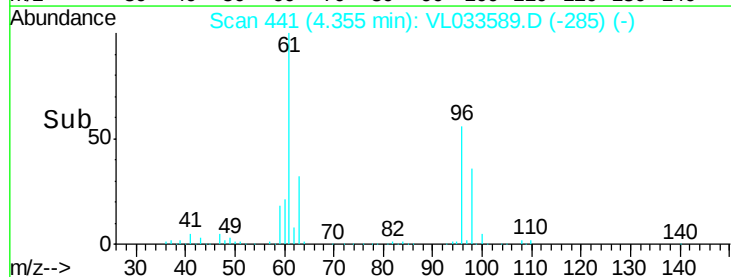
400000

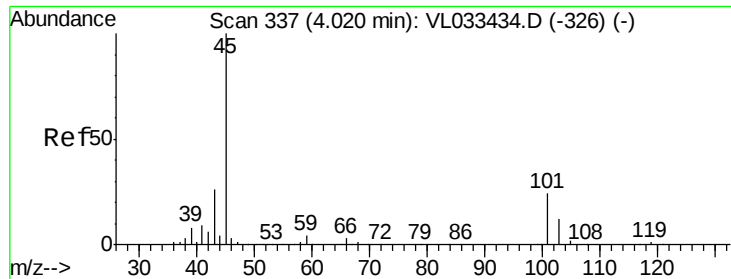
200000

0

Time-->

4.30 4.35 4.40





#19

Isopropyl Alcohol

Concen: 10.019 ppbv

RT: 4.02 min Scan# 338

Delta R.T. 0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

Instrument :

MSVOA_L

ClientSampleId :

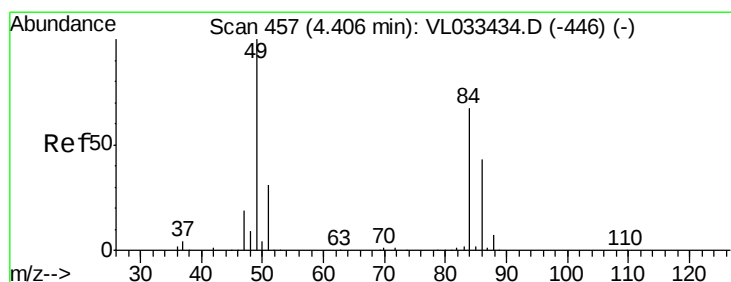
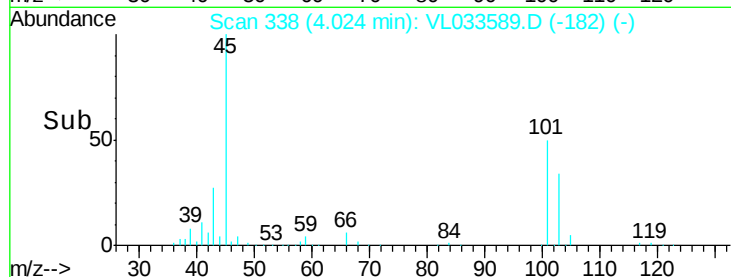
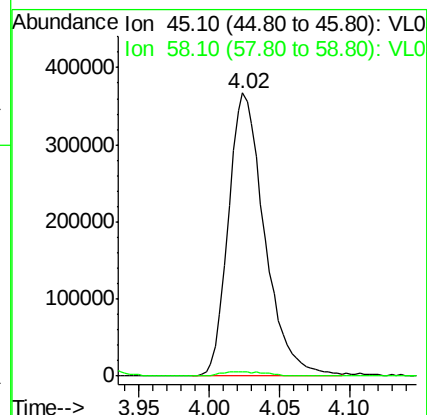
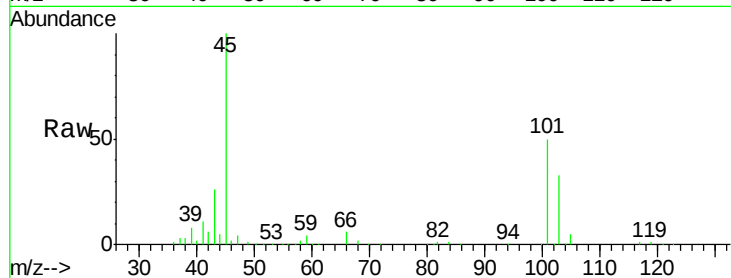
VL0416ABS01

Tot Ion: 45 Resp: 659008

Ion Ratio Lower Upper

45 100

58 2.5 1.4 2.2#



#20

Methylene Chloride

Concen: 8.170 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

Tgt Ion: 84 Resp: 360641

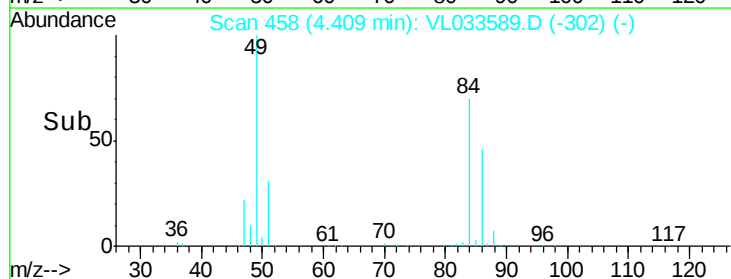
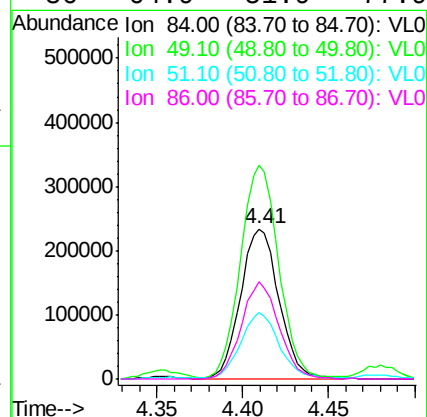
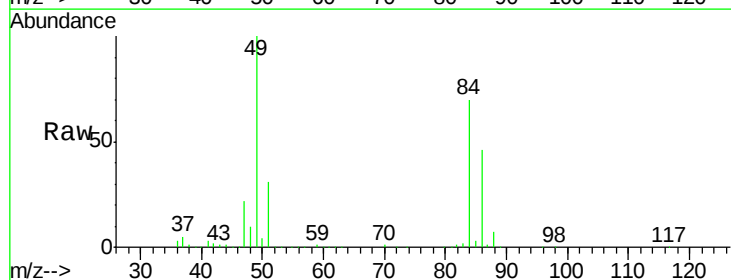
Ion Ratio Lower Upper

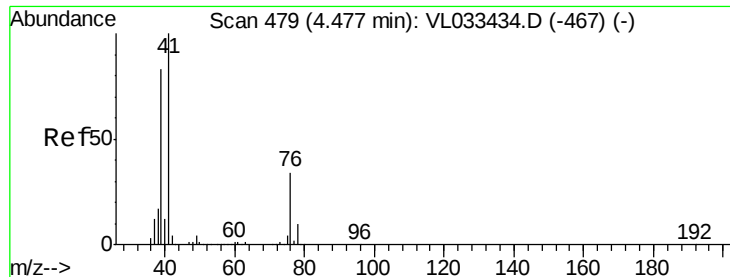
84 100

49 141.5 120.0 180.0

51 43.7 36.7 55.1

86 64.9 51.9 77.9

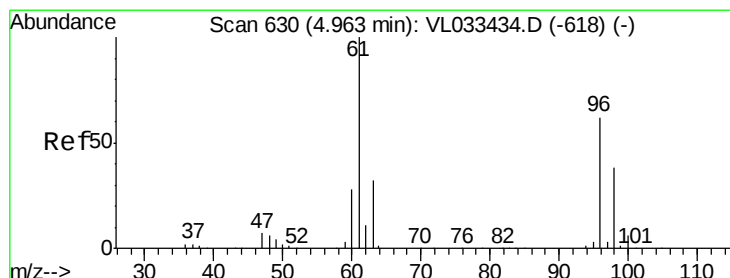
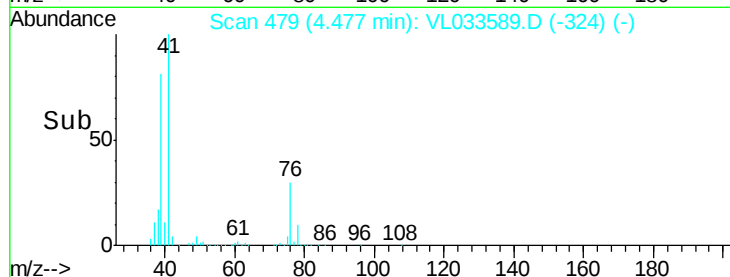
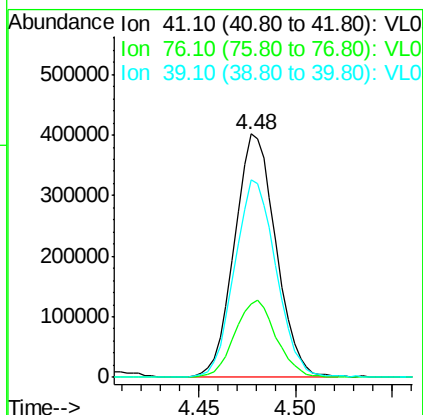
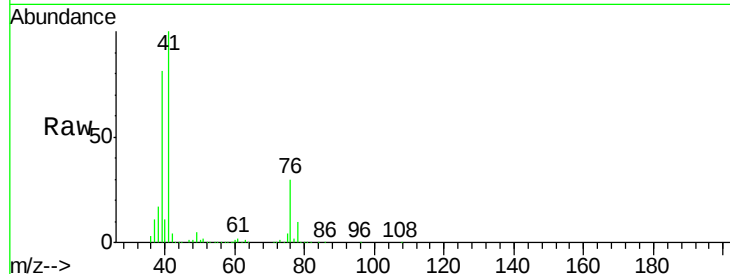




#21
Allvl Chloride
Concen: 9.055 ppbv
RT: 4.48 min Scan# 479
Delta R.T. -0.00 min
Lab File: VL033589.D
Acq: 16 Apr 2019 12:09

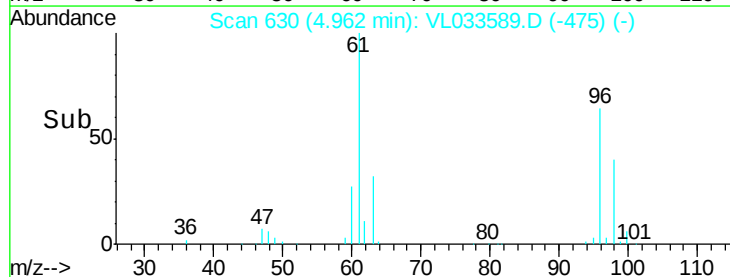
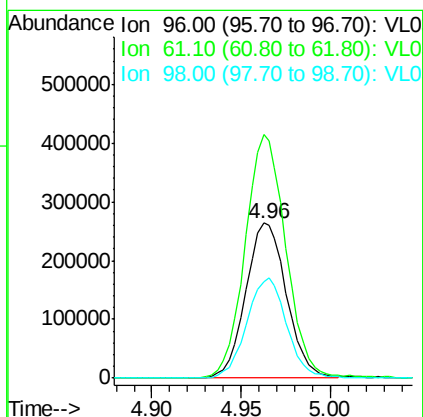
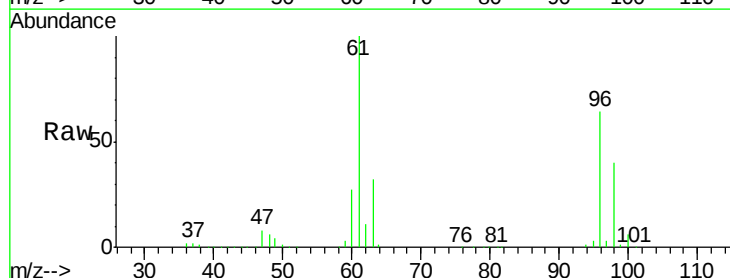
Instrument :
MSVOA_L
ClientSampleId :
VL0416ABS01

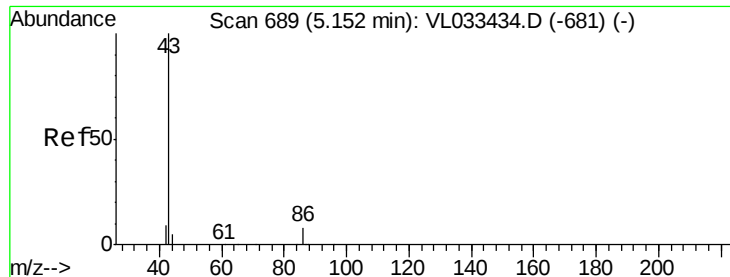
Tot Ion: 41 Resp: 595265
Ion Ratio Lower Upper
41 100
76 31.7 25.4 38.2
39 81.9 65.3 97.9



#22
trans-1,2-Dichloroethene
Concen: 9.000 ppbv
RT: 4.96 min Scan# 630
Delta R.T. -0.00 min
Lab File: VL033589.D
Acq: 16 Apr 2019 12:09

Tgt Ion: 96 Resp: 421156
Ion Ratio Lower Upper
96 100
61 157.0 128.9 193.3
98 62.2 49.5 74.3





#23

Vinyl Acetate

Concen: 8.901 ppbv

RT: 5.16 min Scan# 690

Delta R.T. 0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

Instrument :

MSVOA_L

ClientSampleId :

VL0416ABS01

Tot Ion: 43 Resp: 1317562

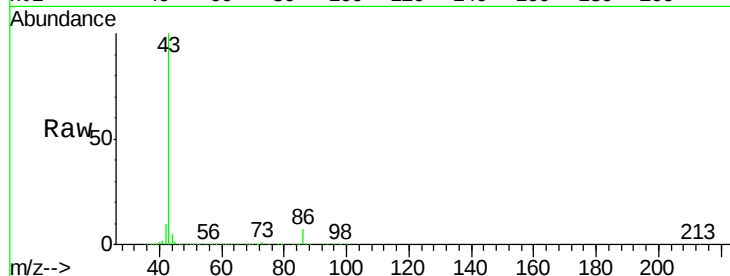
Ion Ratio Lower Upper

43 100

86 7.1 5.6 8.4

42 9.8 8.0 12.0

44 5.3 3.9 5.9

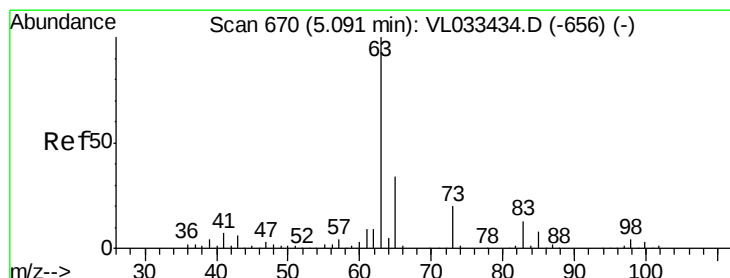
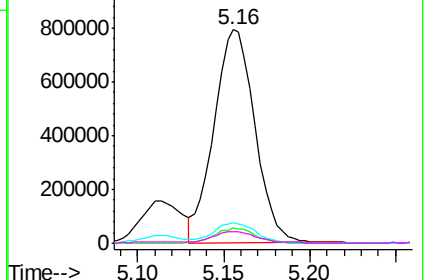
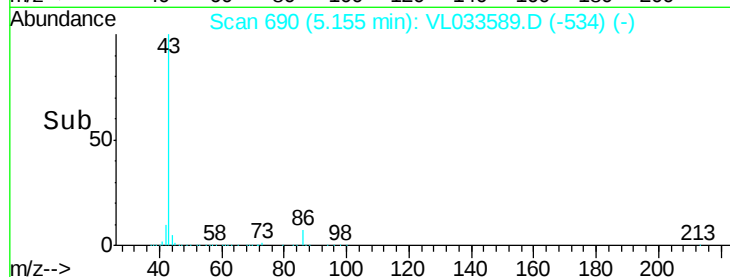


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 8.369 ppbv

RT: 5.09 min Scan# 670

Delta R.T. -0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

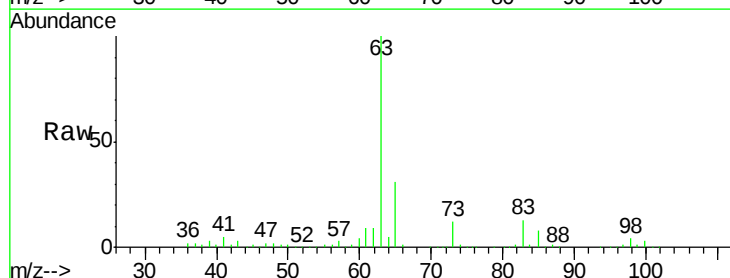
Tgt Ion: 63 Resp: 940991

Ion Ratio Lower Upper

63 100

98 4.2 2.2 6.6

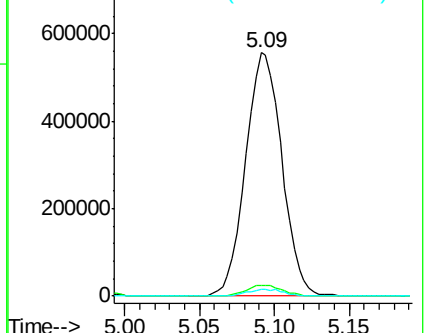
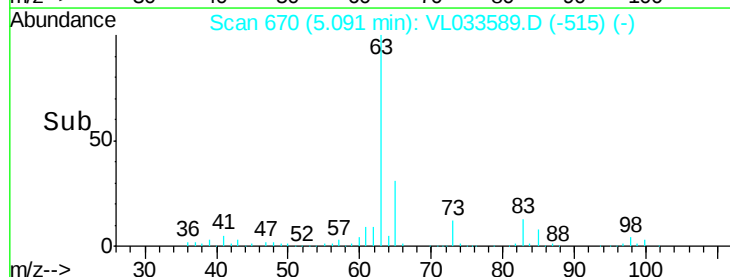
100 2.8 1.5 4.4

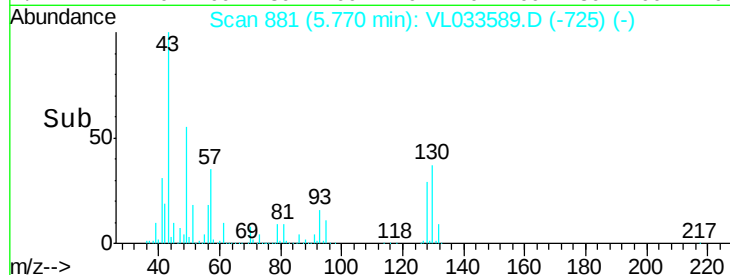
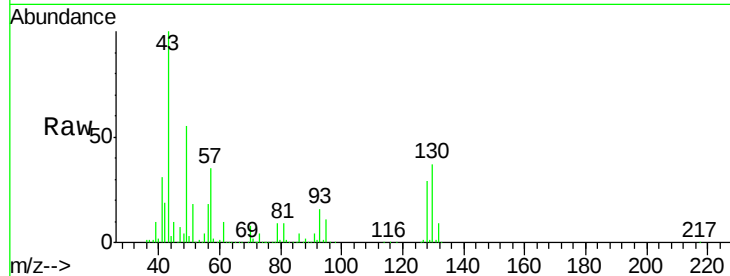
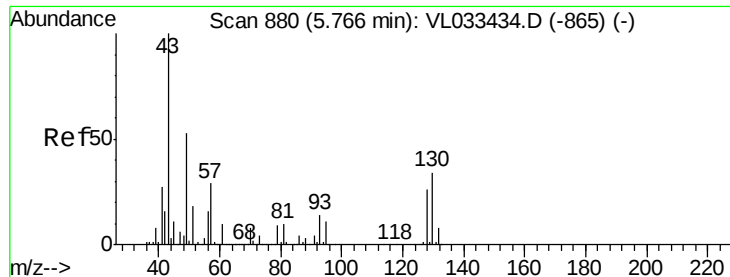


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



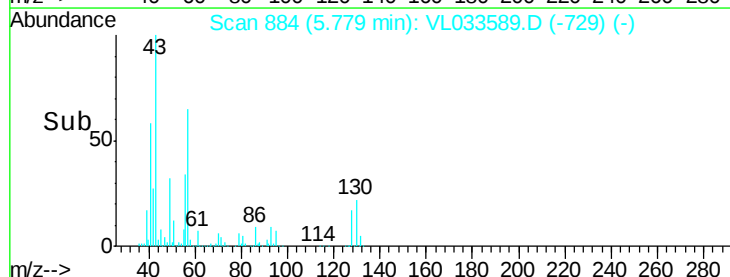
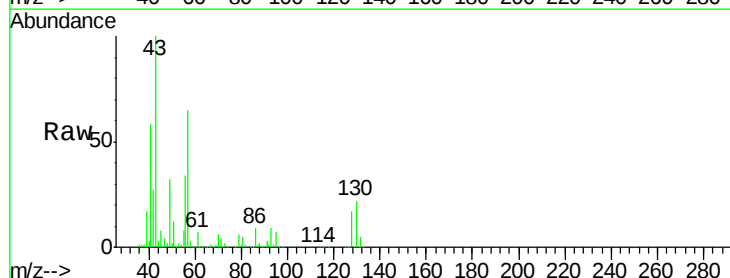
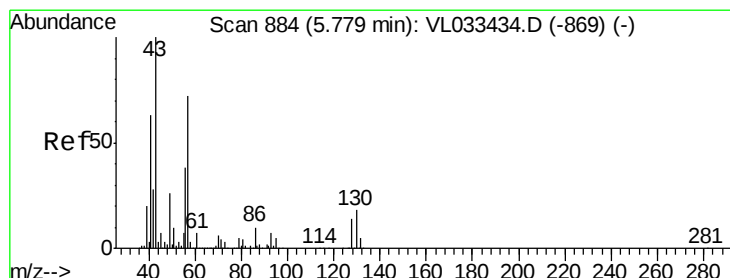
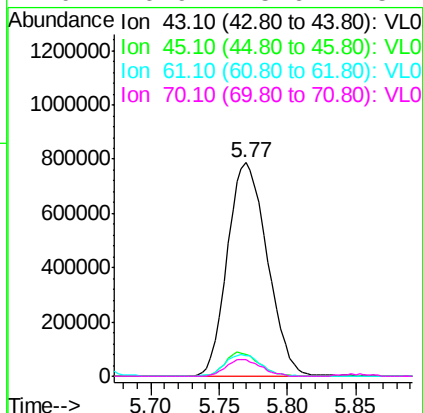


#25
Ethyl Acetate
Concen: 8.283 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.00 min
Lab File: VL033589.D
Acq: 16 Apr 2019 12:09

Instrument :
MSVOA_L
ClientSampleId :
VL0416ABS01

Tot Ion: 43 Resp: 1598163

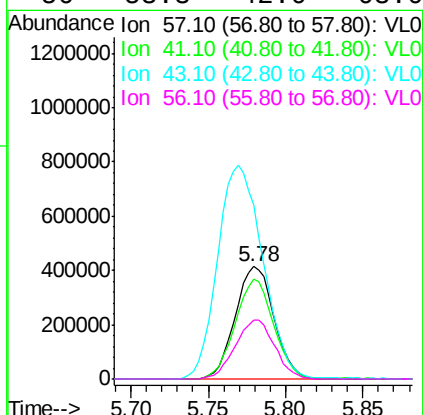
Ion	Ratio	Lower	Upper
43	100		
45	9.8	7.8	11.6
61	9.4	7.3	10.9
70	6.9	5.6	8.4

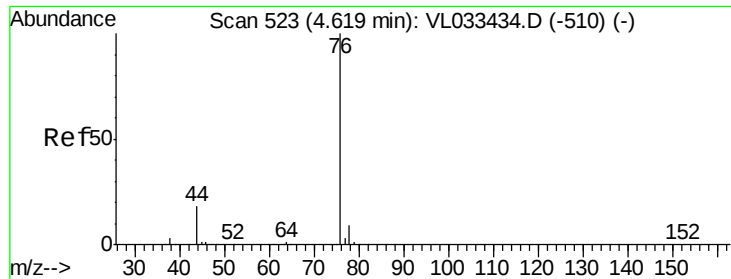


#26
Hexane
Concen: 8.398 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033589.D
Acq: 16 Apr 2019 12:09

Tgt Ion: 57 Resp: 720507

Ion	Ratio	Lower	Upper
57	100		
41	88.5	70.7	106.1
43	222.9	182.6	274.0
56	53.3	42.0	63.0

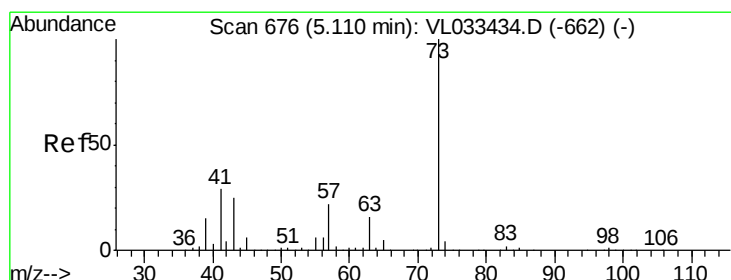
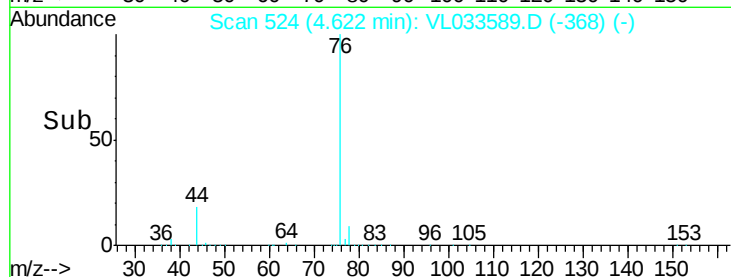
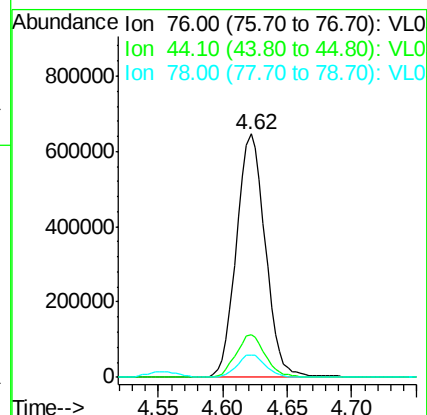
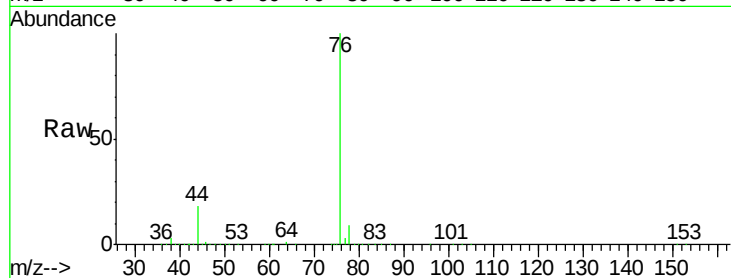




#27
Carbon Disulfide
Concen: 9.878 ppbv
RT: 4.62 min Scan# 524
Delta R.T. 0.00 min
Lab File: VL033589.D
Acq: 16 Apr 2019 12:09

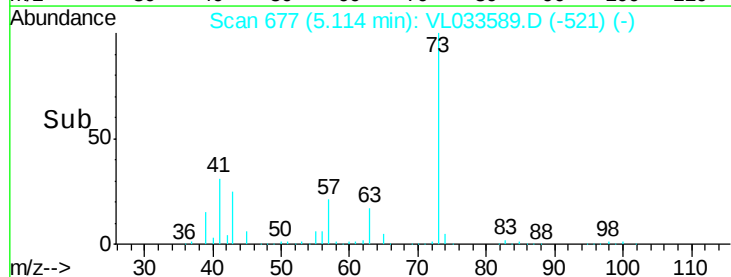
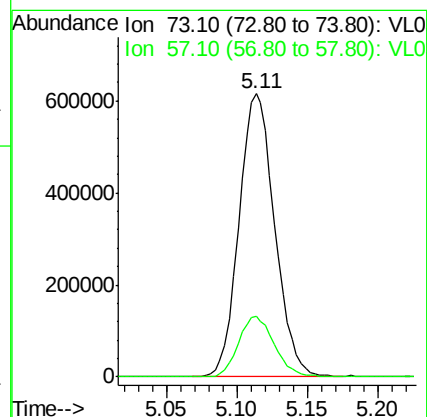
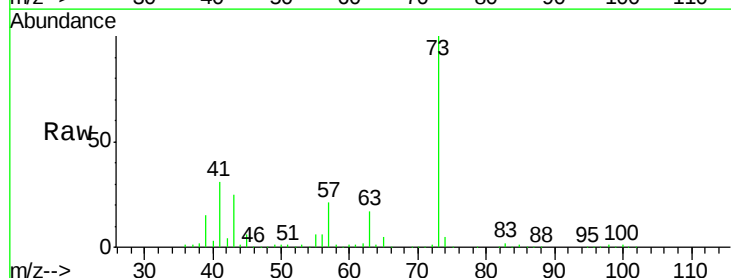
Instrument :
MSVOA_L
ClientSampleId :
VL0416ABS01

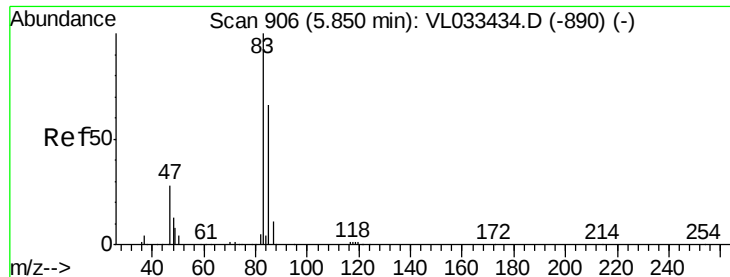
Tot Ion: 76 Resp: 1007711
Ion Ratio Lower Upper
76 100
44 17.3 14.8 22.2
78 9.3 7.6 11.4



#28
Methyl tert-Butyl Ether
Concen: 8.818 ppbv
RT: 5.11 min Scan# 677
Delta R.T. 0.00 min
Lab File: VL033589.D
Acq: 16 Apr 2019 12:09

Tgt Ion: 73 Resp: 1089639
Ion Ratio Lower Upper
73 100
57 21.7 17.4 26.2





#29

Chloroform

Concen: 8.509 ppbv

RT: 5.85 min Scan# 906

Delta R.T. -0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

Instrument :

MSVOA_L

ClientSampleId :

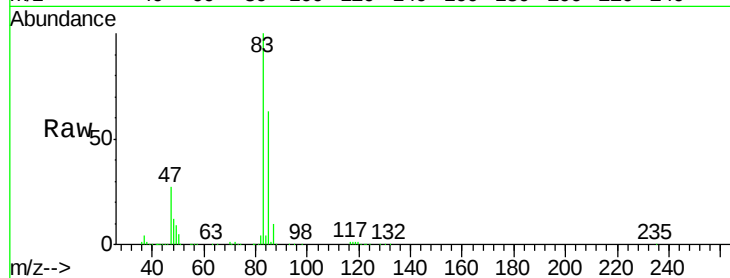
VL0416ABS01

Tot Ion: 83 Resp: 1251306

Ion Ratio Lower Upper

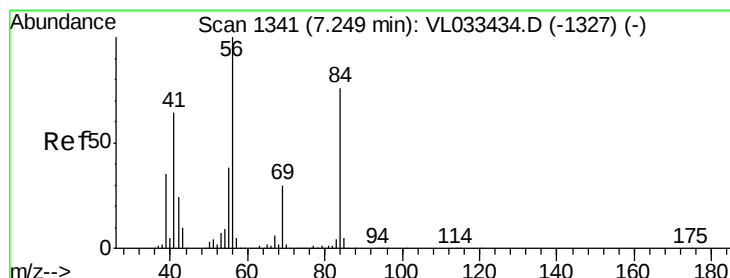
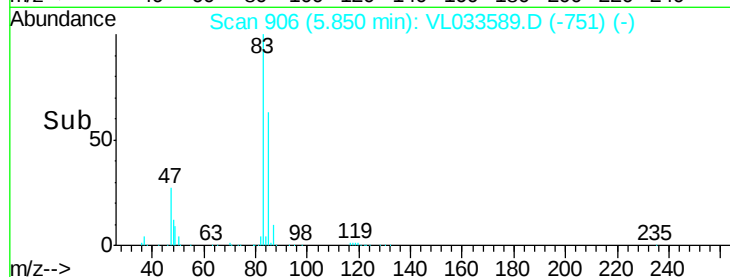
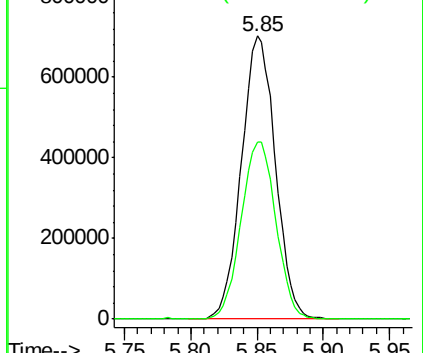
83 100

85 62.6 52.6 79.0



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 9.388 ppbv

RT: 7.25 min Scan# 1341

Delta R.T. -0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

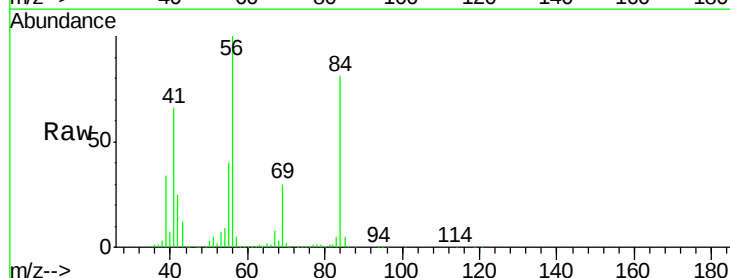
Tgt Ion: 84 Resp: 637166

Ion Ratio Lower Upper

84 100

56 136.6 109.7 164.5

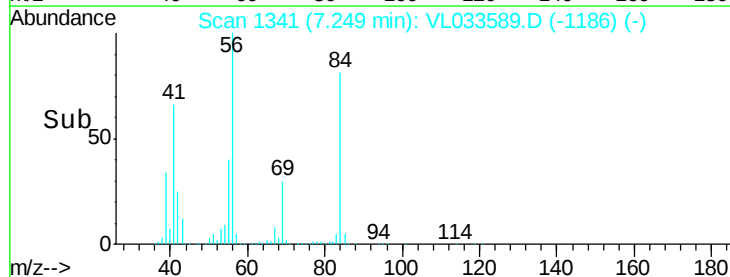
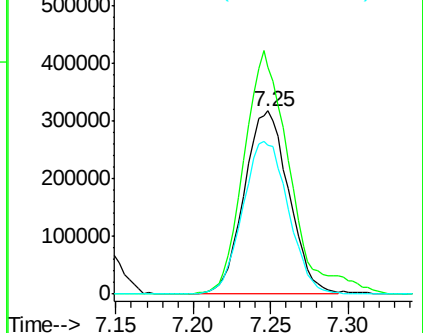
41 85.2 68.2 102.2

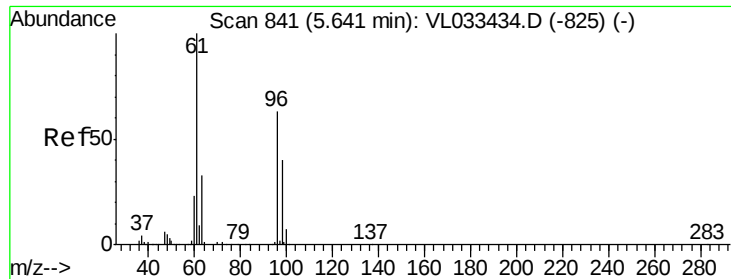


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0



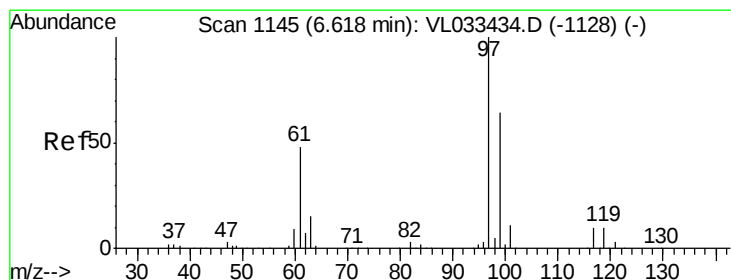
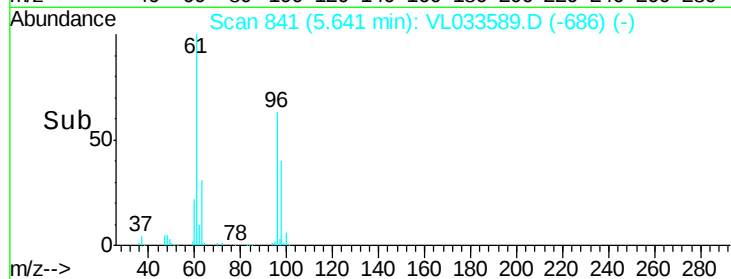
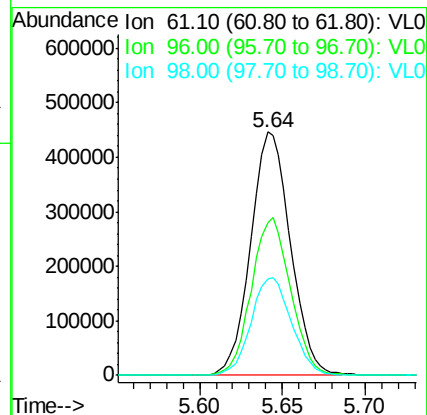
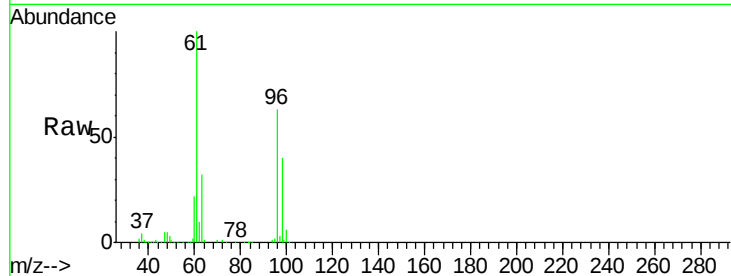


#31

cis-1,2-Dichloroethene
 Concen: 8.720 ppbv
 RT: 5.64 min Scan# 841
 Delta R.T. -0.00 min
 Lab File: VL033589.D
 Acq: 16 Apr 2019 12:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0416ABS01

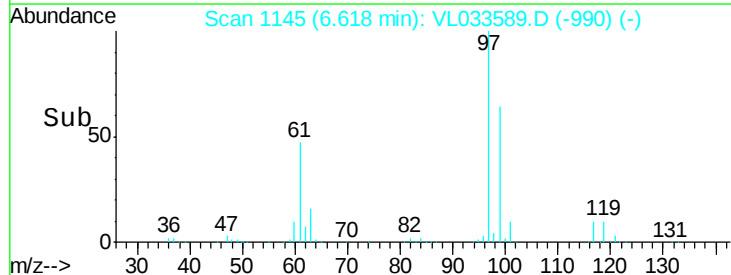
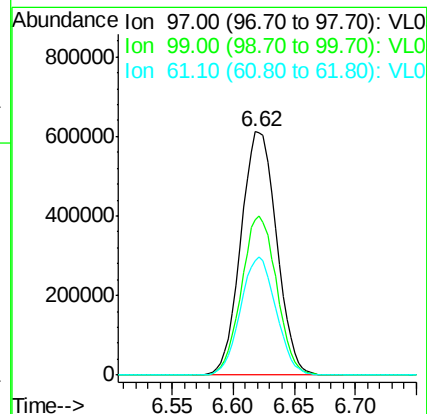
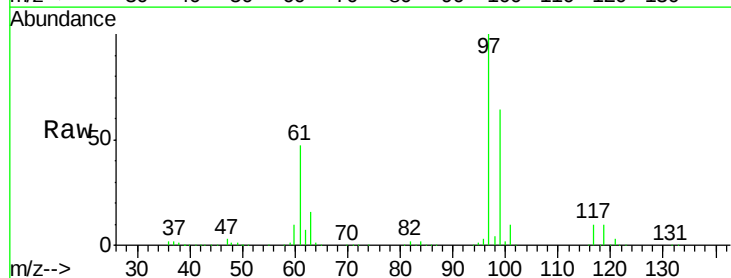
Tot Ion:	61	Resp:	743758
Ion	Ratio	Lower	Upper
61	100		
96	62.8	50.6	76.0
98	39.8	32.2	48.2

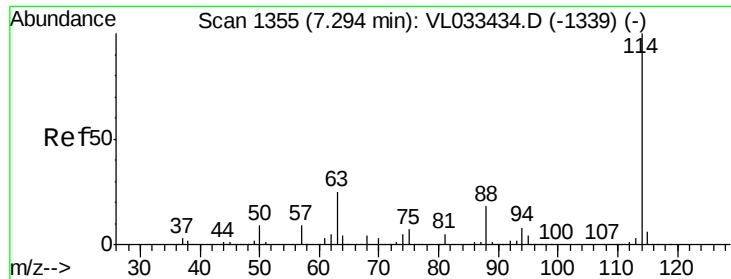


#32

1,1,1-Trichloroethane
 Concen: 8.844 ppbv
 RT: 6.62 min Scan# 1145
 Delta R.T. -0.00 min
 Lab File: VL033589.D
 Acq: 16 Apr 2019 12:09

Tgt Ion:	97	Resp:	1238512
Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.5	77.3
61	48.2	38.8	58.2

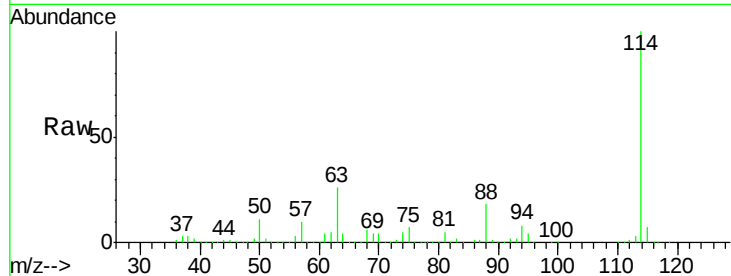




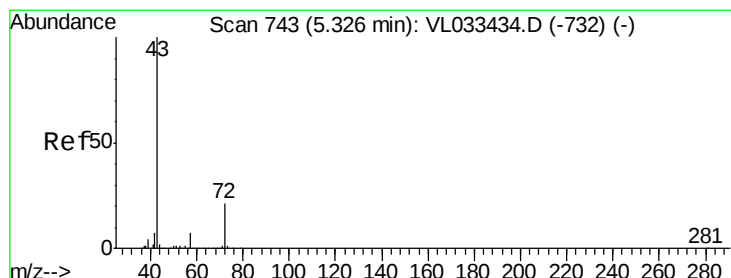
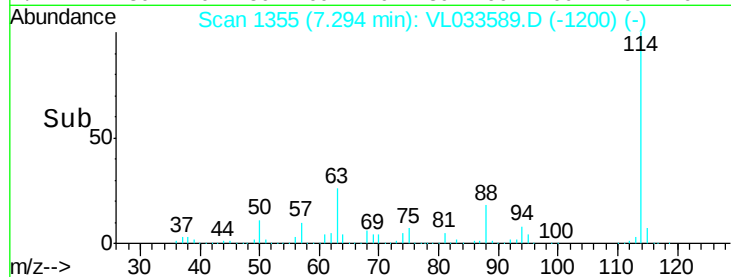
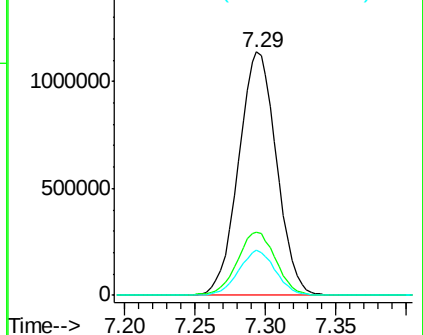
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.00 min
 Lab File: VL033589.D
 Acq: 16 Apr 2019 12:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0416ABS01

Tot Ion:114 Resp: 2148908
 Ion Ratio Lower Upper
 114 100
 63 26.8 21.5 32.3
 88 17.9 14.5 21.7

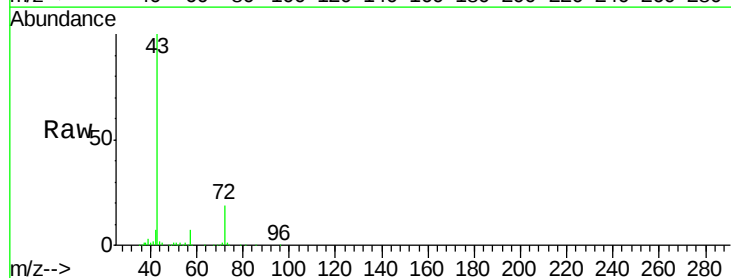


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

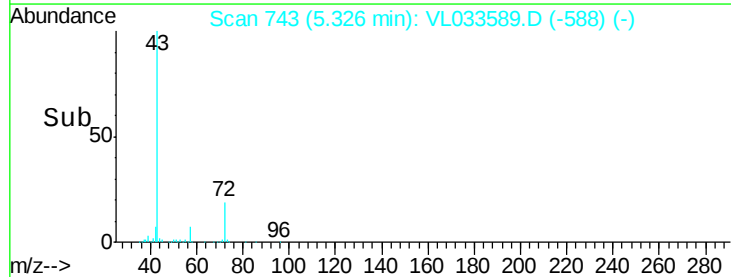
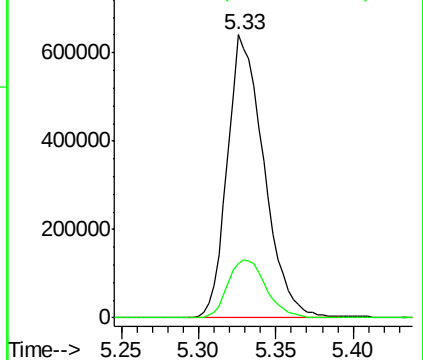


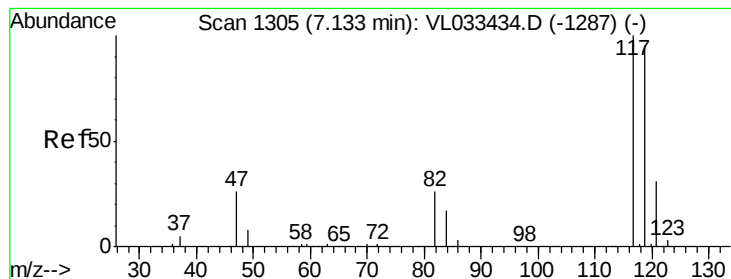
#34
 2-Butanone
 Concen: 8.119 ppbv
 RT: 5.33 min Scan# 743
 Delta R.T. -0.00 min
 Lab File: VL033589.D
 Acq: 16 Apr 2019 12:09

Tgt Ion: 43 Resp: 1048186
 Ion Ratio Lower Upper
 43 100
 72 21.6 17.4 26.2



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





#35

Carbon Tetrachloride

Concen: 8.983 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. -0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

Instrument :

MSVOA_L

ClientSampleId :

VL0416ABS01

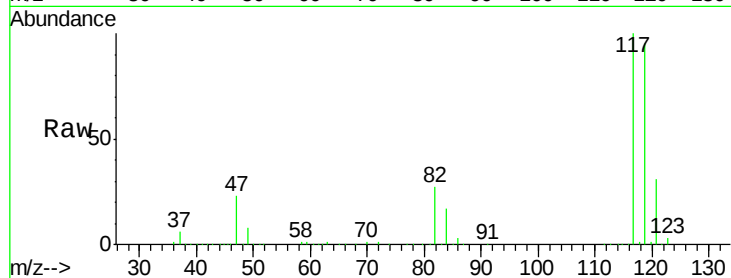
Tot Ion:117 Resp: 1367300

Ion Ratio Lower Upper

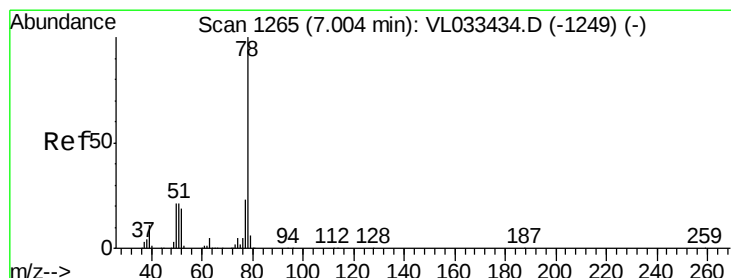
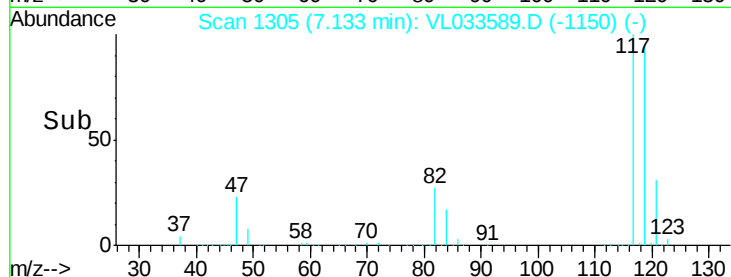
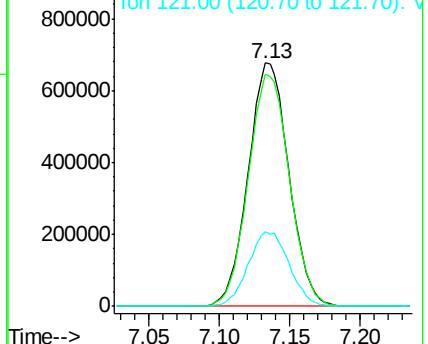
117 100

119 95.3 75.8 113.8

121 31.1 24.7 37.1



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: 8.432 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. -0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

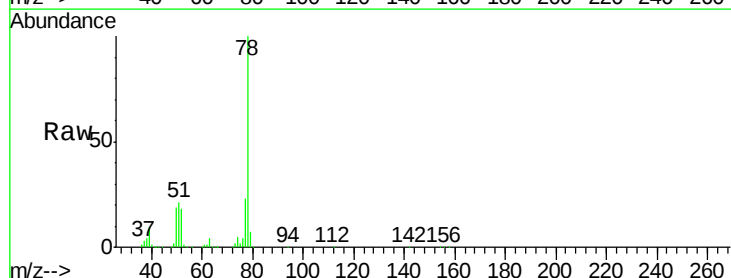
Tgt Ion: 78 Resp: 1520314

Ion Ratio Lower Upper

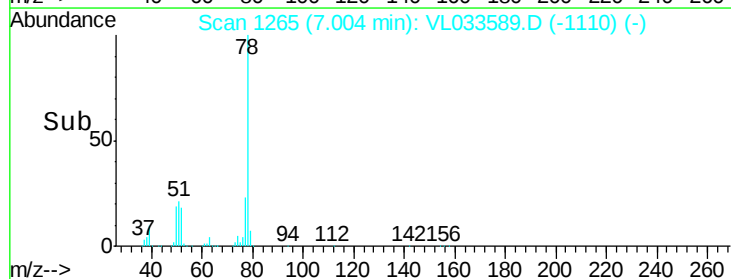
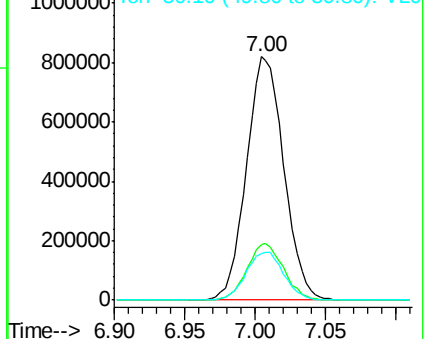
78 100

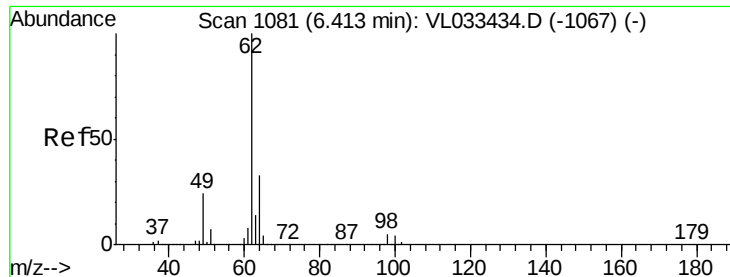
77 22.6 18.1 27.1

50 19.3 16.7 25.1



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

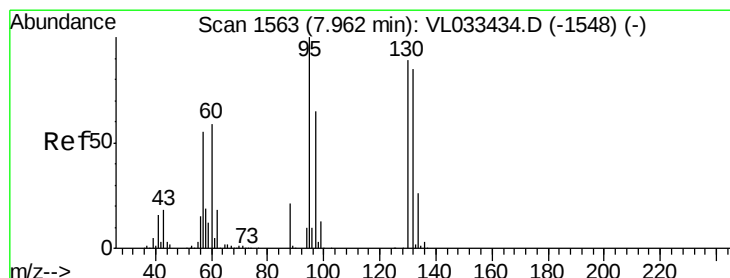
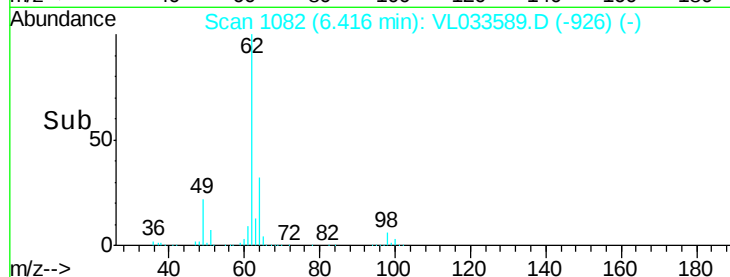
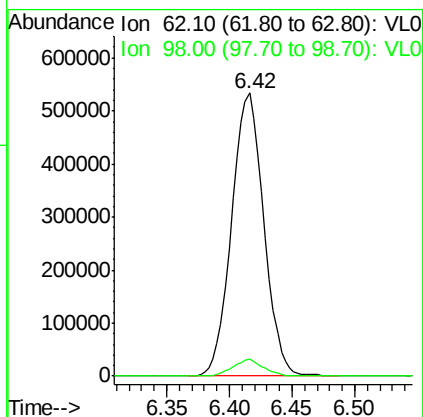
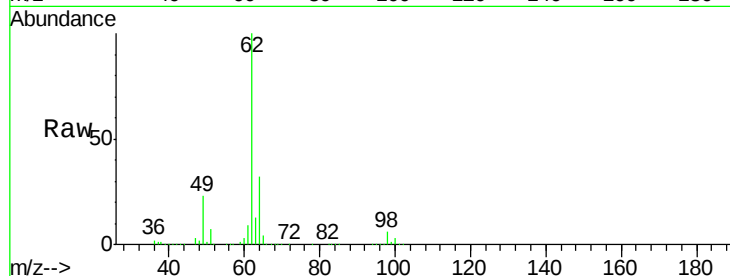




#37
 1,2-Dichloroethane
 Concen: 7.879 ppbv
 RT: 6.42 min Scan# 1082
 Delta R.T. 0.00 min
 Lab File: VL033589.D
 Acq: 16 Apr 2019 12:09

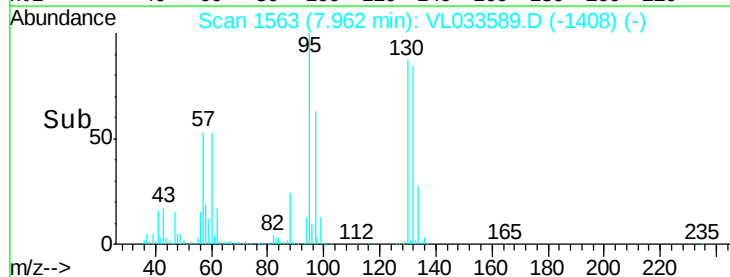
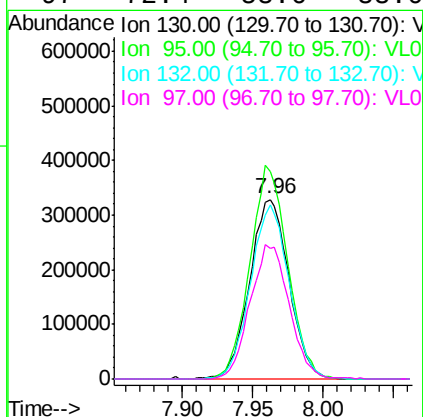
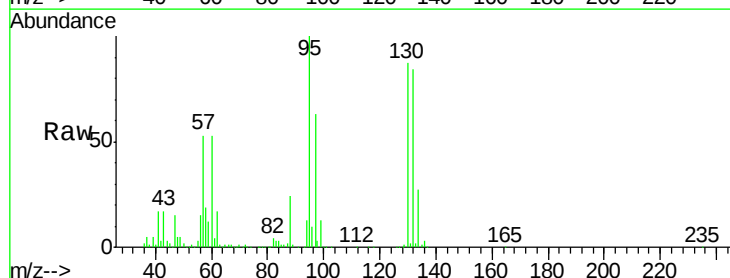
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0416ABS01

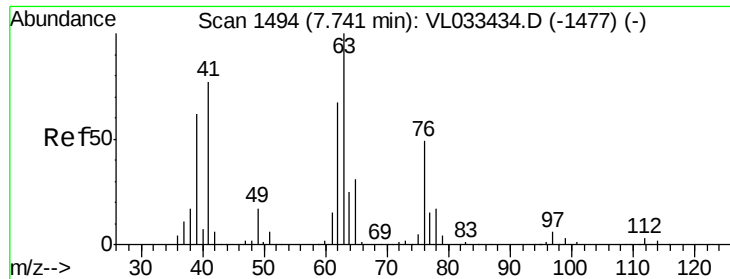
Tot Ion: 62 Resp: 952188
 Ion Ratio Lower Upper
 62 100
 98 5.5 4.4 6.6



#38
 Trichloroethene
 Concen: 9.457 ppbv
 RT: 7.96 min Scan# 1563
 Delta R.T. -0.00 min
 Lab File: VL033589.D
 Acq: 16 Apr 2019 12:09

Tgt Ion: 130 Resp: 641727
 Ion Ratio Lower Upper
 130 100
 95 115.5 89.8 134.8
 132 97.0 76.6 115.0
 97 72.4 58.6 88.0

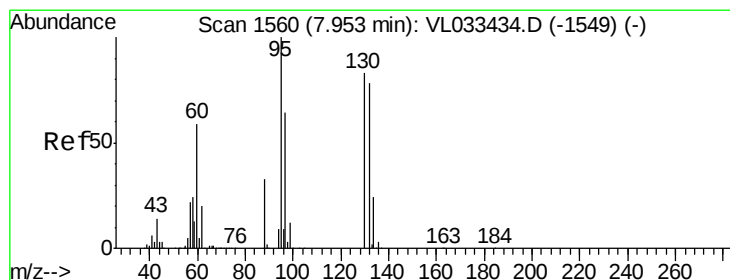
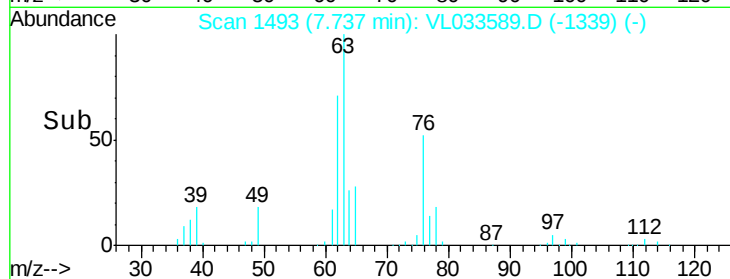
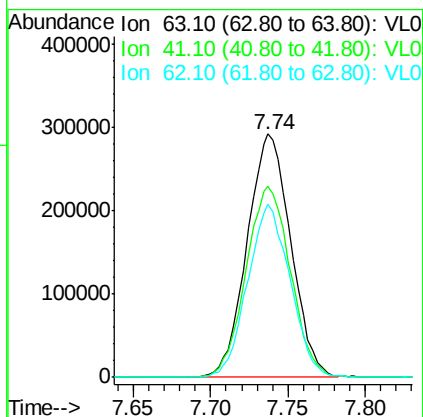
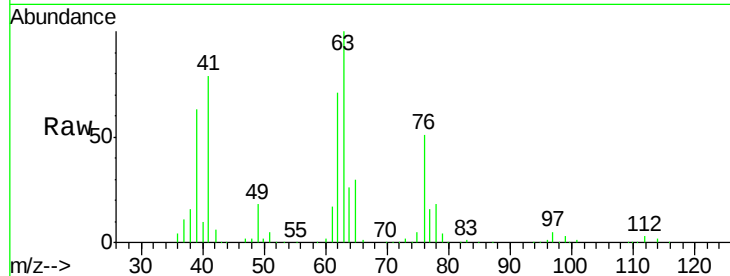




#39
 1,2-Dichloropropane
 Concen: 8.117 ppbv
 RT: 7.74 min Scan# 1493
 Delta R.T. -0.00 min
 Lab File: VL033589.D
 Acq: 16 Apr 2019 12:09

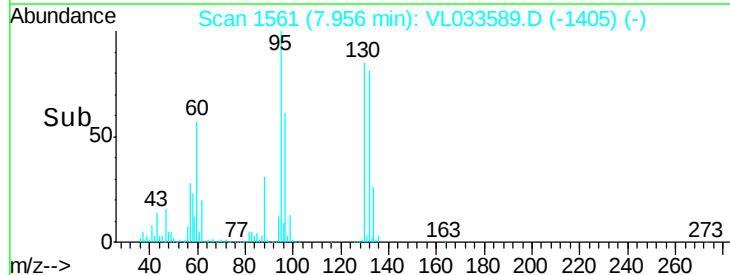
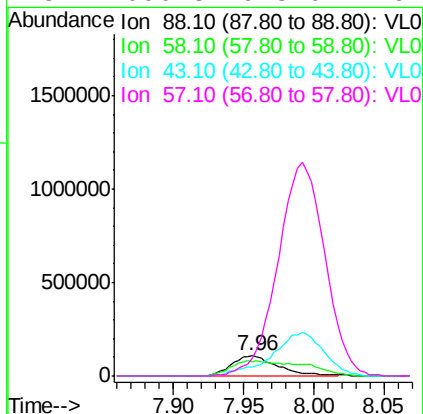
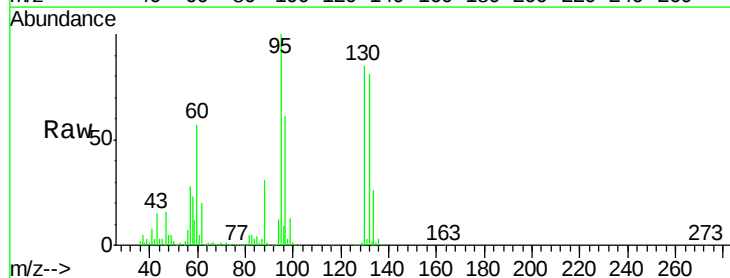
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0416ABS01

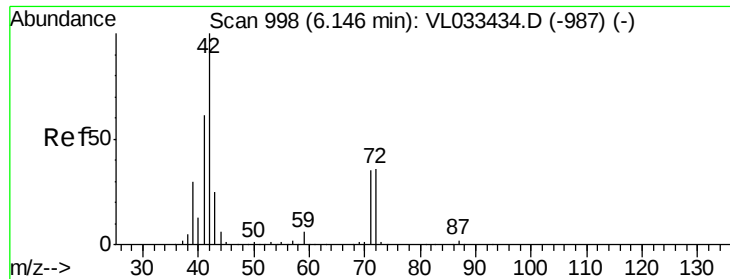
Tot Ion: 63 Resp: 573328
 Ion Ratio Lower Upper
 63 100
 41 78.6 61.2 91.8
 62 71.1 54.0 81.0



#40
 1,4-Dioxane
 Concen: 9.658 ppbv
 RT: 7.96 min Scan# 1561
 Delta R.T. 0.00 min
 Lab File: VL033589.D
 Acq: 16 Apr 2019 12:09

Tgt Ion: 88 Resp: 243307
 Ion Ratio Lower Upper
 88 100
 58 125.1 105.6 158.4
 43 245.3 216.7 325.1
 57 1090.8 975.0 1462.4





#41

Tetrahydrofuran

Concen: 8.312 ppbv

RT: 6.15 min Scan# 999

Delta R.T. 0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

Instrument :

MSVOA_L

ClientSampleId :

VL0416ABS01

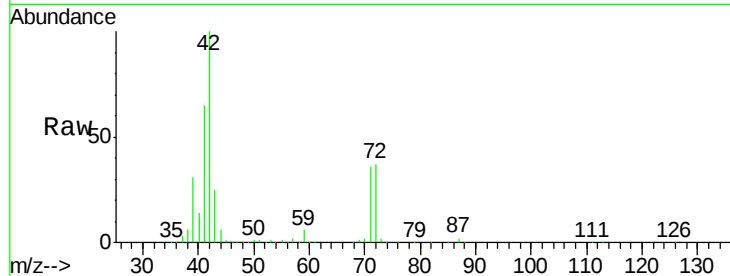
Tot Ion: 42 Resp: 590225

Ion Ratio Lower Upper

42 100

72 38.5 30.2 45.2

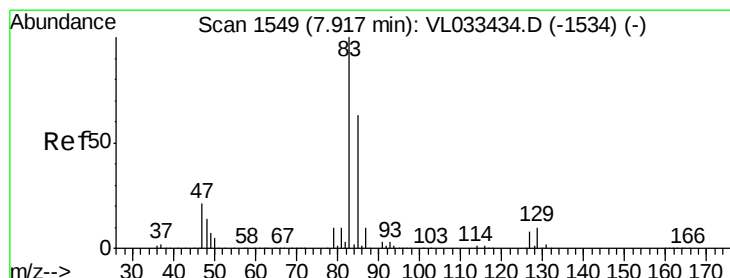
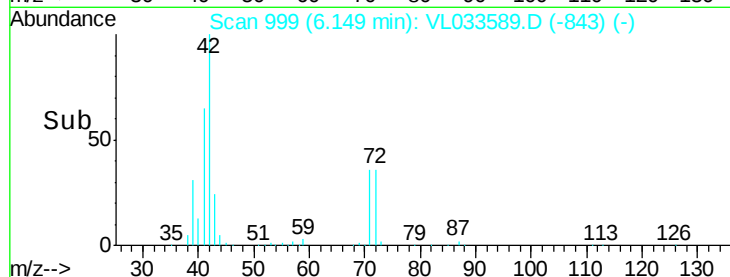
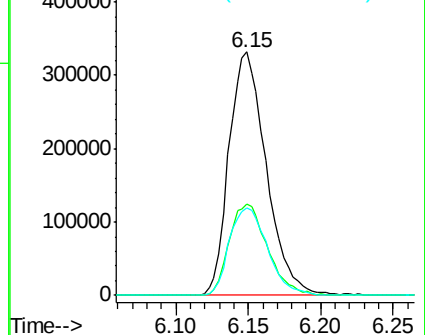
71 37.3 29.4 44.2



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 8.557 ppbv

RT: 7.92 min Scan# 1549

Delta R.T. -0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

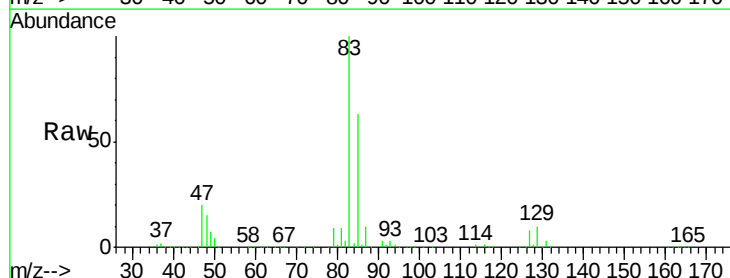
Tgt Ion: 83 Resp: 1408636

Ion Ratio Lower Upper

83 100

85 63.3 50.7 76.1

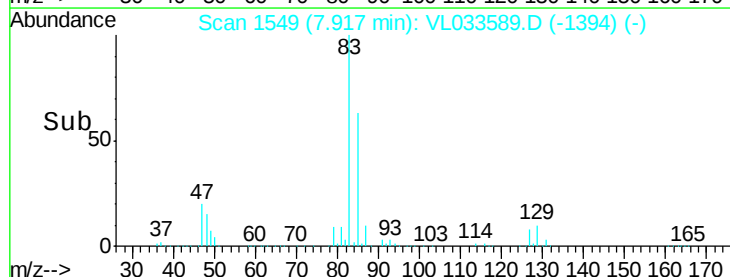
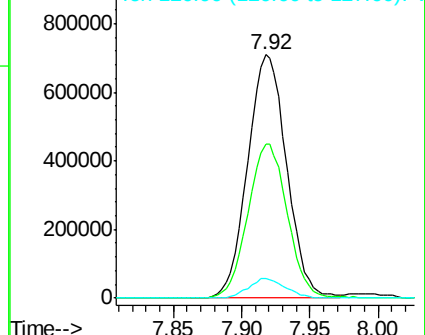
127 8.1 6.6 9.8

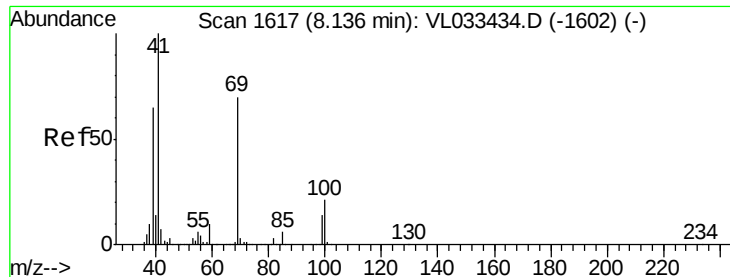


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

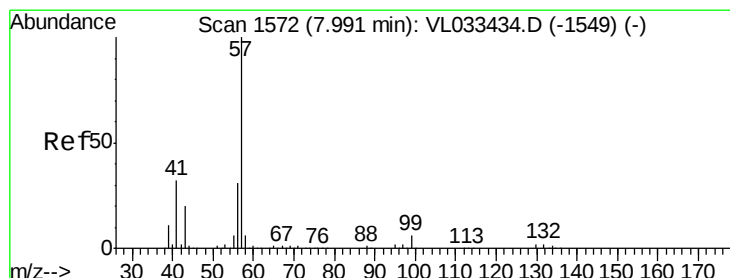
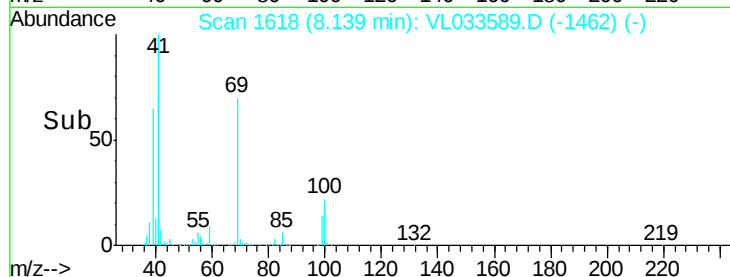
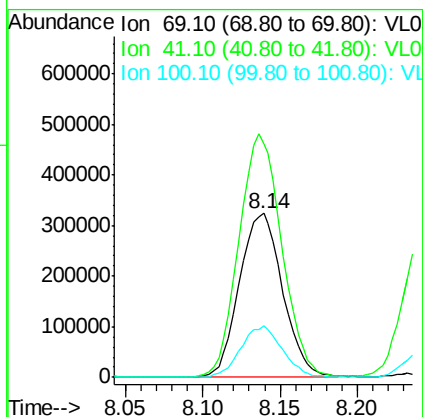
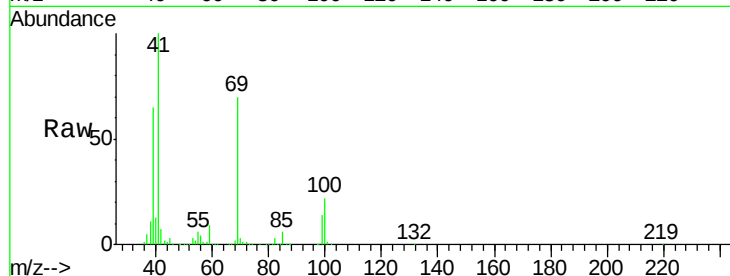




#43
Methvl Methacrylate
Concen: 8.610 ppbv
RT: 8.14 min Scan# 1618
Delta R.T. 0.00 min
Lab File: VL033589.D
Acq: 16 Apr 2019 12:09

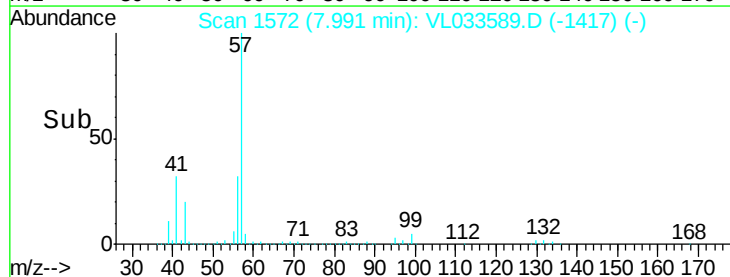
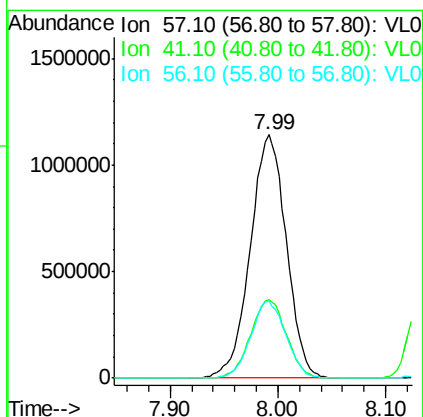
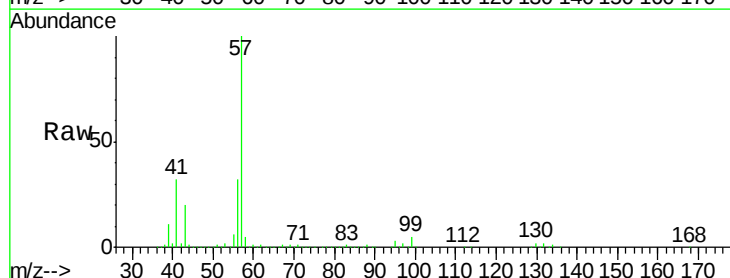
Instrument :
MSVOA_L
ClientSampleId :
VL0416ABS01

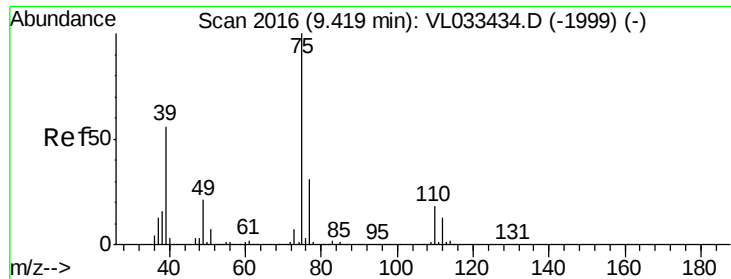
Tot Ion: 69 Resp: 630398
Ion Ratio Lower Upper
69 100
41 147.2 116.6 174.8
100 30.4 24.4 36.6



#44
2,2,4-Trimethylpentane
Concen: 8.412 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. -0.00 min
Lab File: VL033589.D
Acq: 16 Apr 2019 12:09

Tgt Ion: 57 Resp: 2650553
Ion Ratio Lower Upper
57 100
41 32.2 26.0 39.0
56 31.0 24.6 37.0

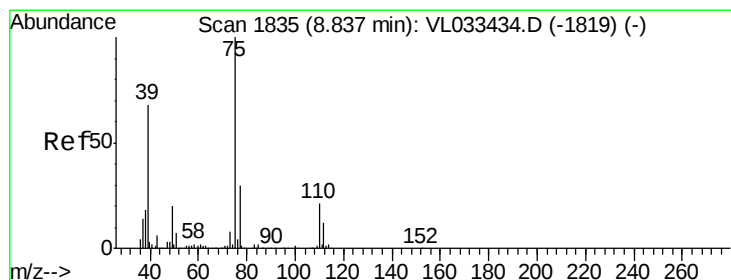
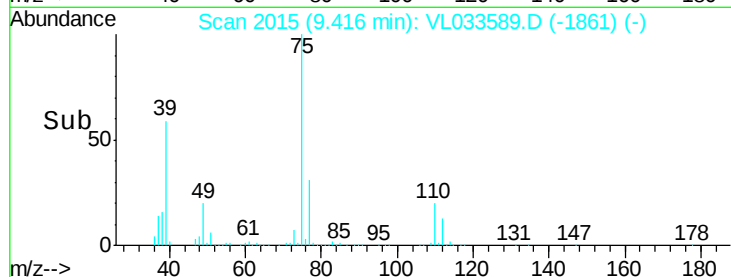
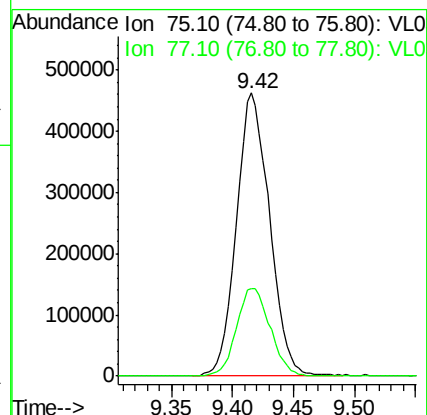
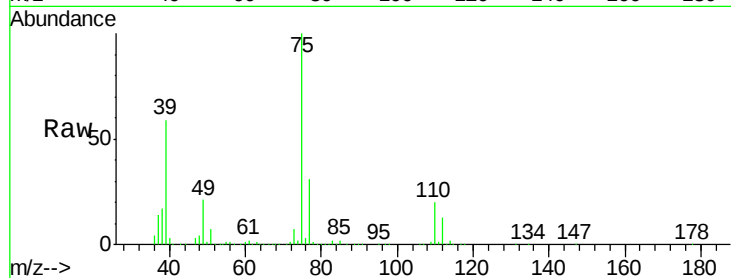




#45
 t-1,3-Dichloropropene
 Concen: 9.676 ppbv
 RT: 9.42 min Scan# 2015
 Delta R.T. -0.00 min
 Lab File: VL033589.D
 Acq: 16 Apr 2019 12:09

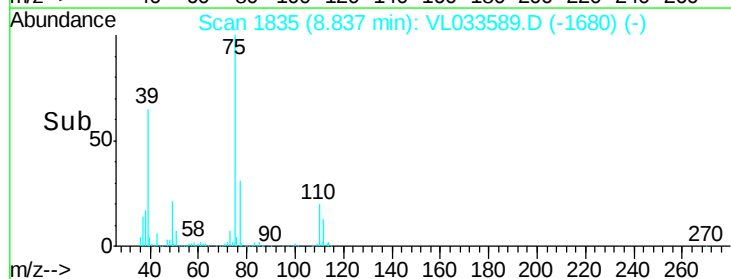
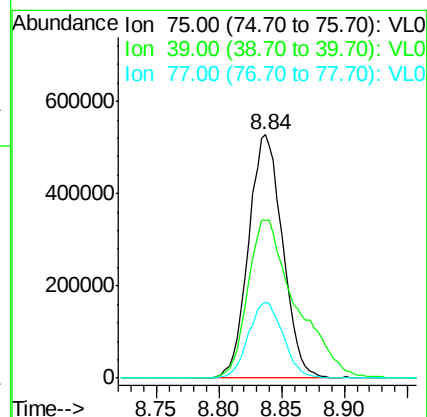
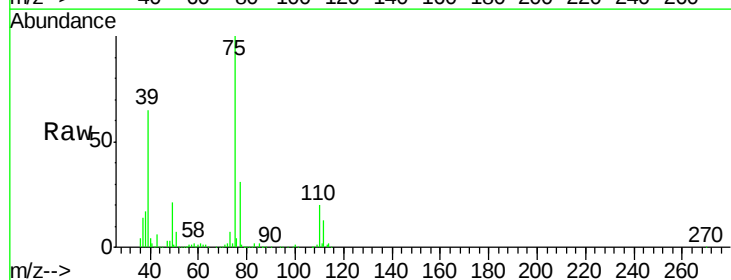
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0416ABS01

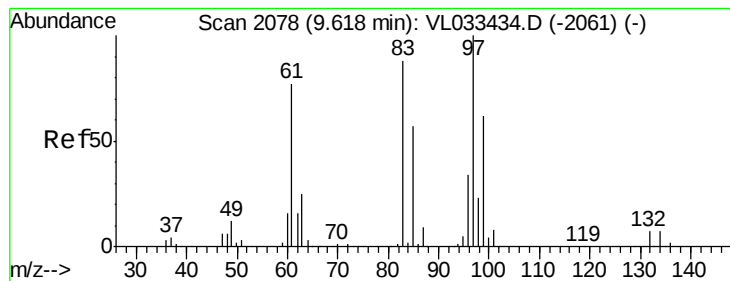
Tot Ion: 75 Resp: 869756
 Ion Ratio Lower Upper
 75 100
 77 31.1 24.5 36.7



#46
 cis-1,3-Dichloropropene
 Concen: 9.456 ppbv
 RT: 8.84 min Scan# 1835
 Delta R.T. -0.00 min
 Lab File: VL033589.D
 Acq: 16 Apr 2019 12:09

Tgt Ion: 75 Resp: 992628
 Ion Ratio Lower Upper
 75 100
 39 65.0 54.1 81.1
 77 31.1 23.9 35.9





#47

1,1,2-Trichloroethane

Concen: 8.422 ppbv

RT: 9.62 min Scan# 2077

Delta R.T. -0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

Instrument :

MSVOA_L

ClientSampleId :

VL0416ABS01

Tot Ion: 97 Resp: 675477

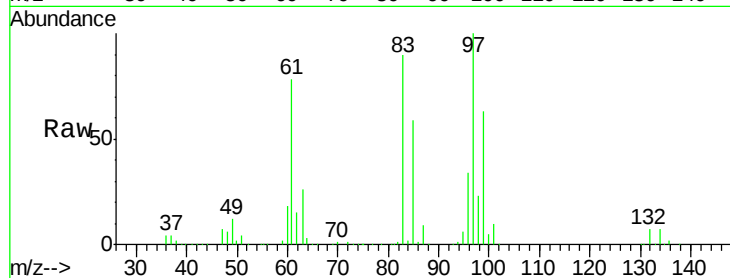
Ion	Ratio	Lower	Upper
97	100		
83	89.8	70.5	105.7
85	58.7	45.6	68.4
99	62.6	49.4	74.0

97 100

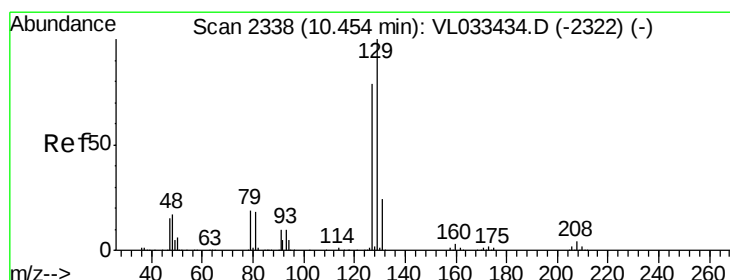
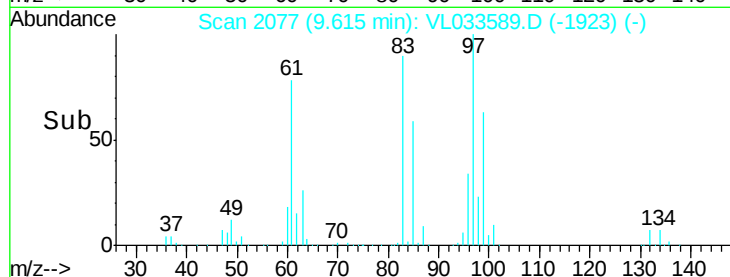
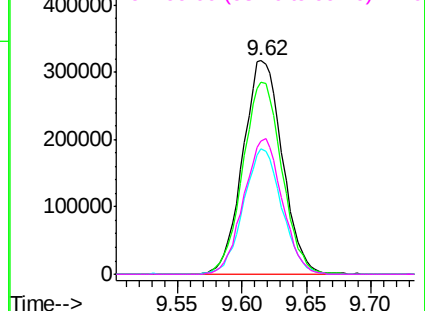
83 89.8 70.5 105.7

85 58.7 45.6 68.4

99 62.6 49.4 74.0



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: 9.131 ppbv

RT: 10.45 min Scan# 2337

Delta R.T. -0.00 min

Lab File: VL033589.D

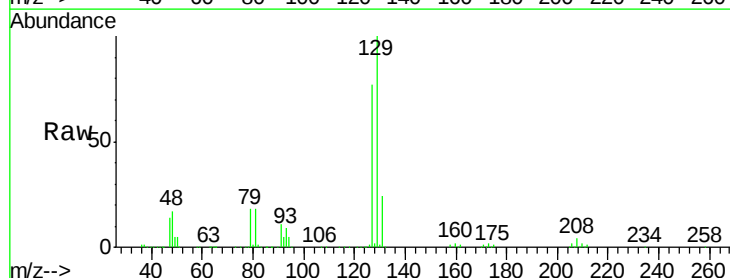
Acq: 16 Apr 2019 12:09

Tgt Ion: 129 Resp: 1235210

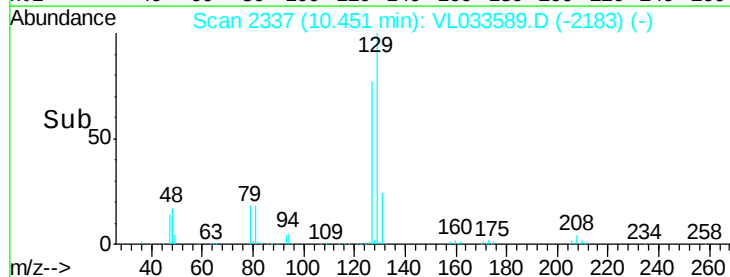
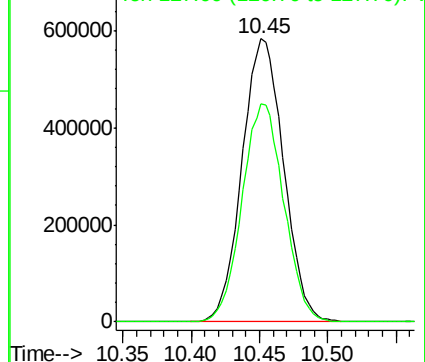
Ion	Ratio	Lower	Upper
129	100		
127	77.6	39.1	117.2

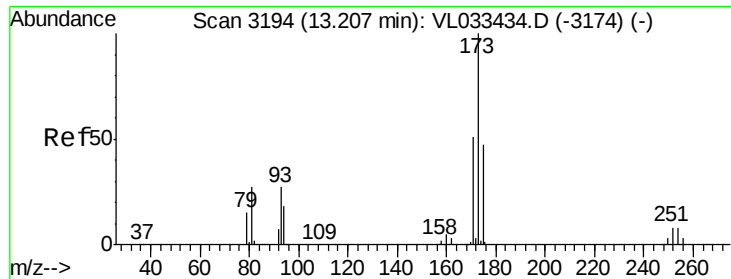
129 100

127 77.6 39.1 117.2



Abundance Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 8.747 ppbv

RT: 13.20 min Scan# 3193

Delta R.T. -0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

Instrument :

MSVOA_L

ClientSampleId :

VL0416ABS01

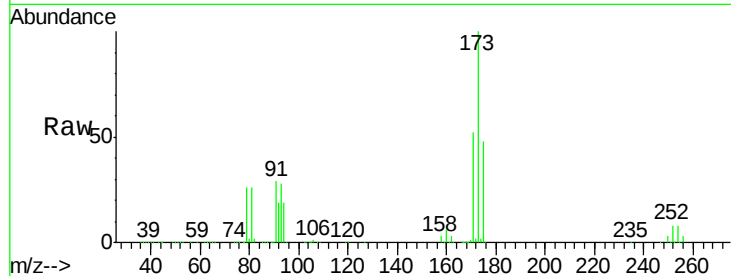
Tot Ion:173 Resp: 1130417

Ion Ratio Lower Upper

173 100

175 49.2 39.3 58.9

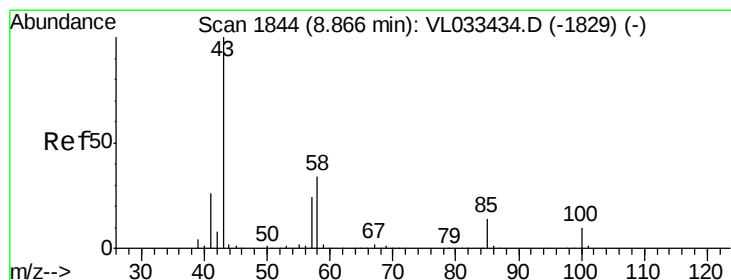
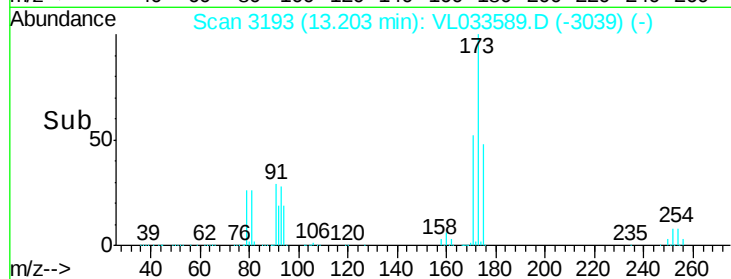
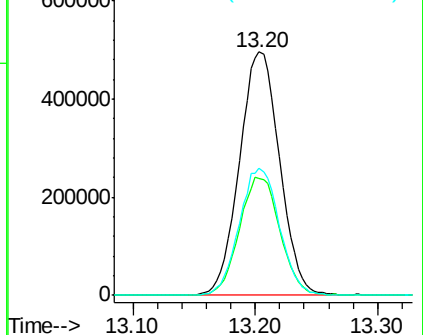
171 52.4 41.2 61.8



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: 8.652 ppbv

RT: 8.87 min Scan# 1845

Delta R.T. 0.00 min

Lab File: VL033589.D

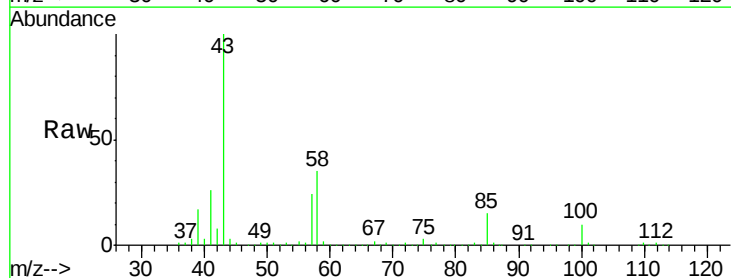
Acq: 16 Apr 2019 12:09

Tgt Ion: 43 Resp: 1635737

Ion Ratio Lower Upper

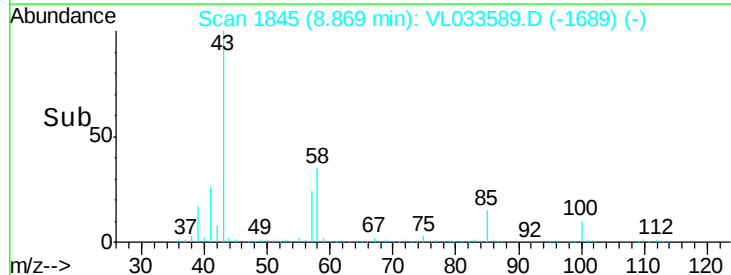
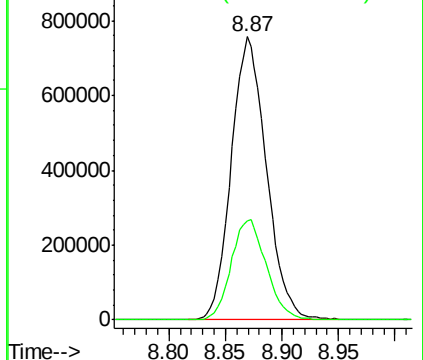
43 100

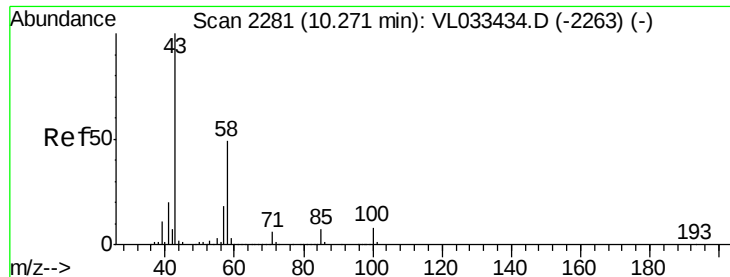
58 35.4 28.0 42.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

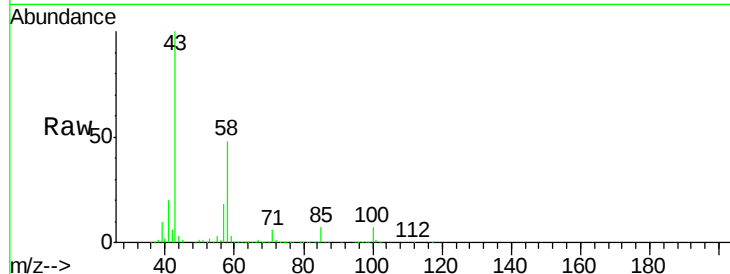




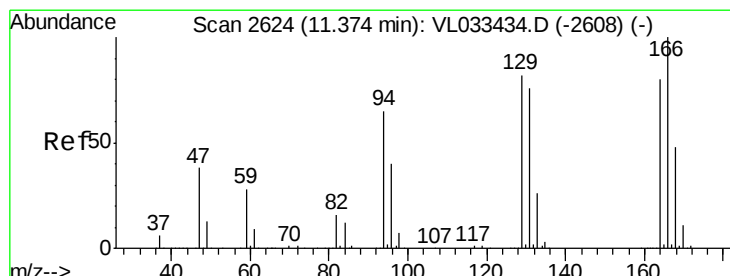
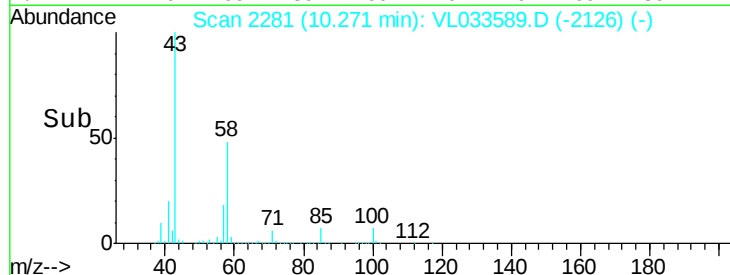
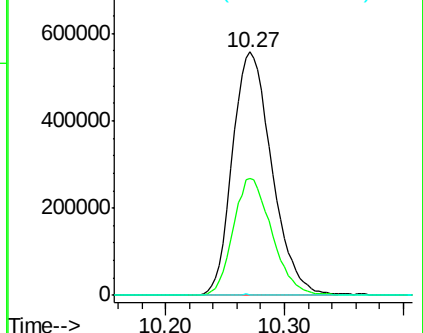
#51
2-Hexanone
Concen: 9.106 ppbv
RT: 10.27 min Scan# 2281
Delta R.T. -0.00 min
Lab File: VL033589.D
Acq: 16 Apr 2019 12:09

Instrument :
MSVOA_L
ClientSampleId :
VL0416ABS01

Tot Ion: 43 Resp: 1284158
Ion Ratio Lower Upper
43 100
58 47.3 38.2 57.2
98 0.3 0.2 0.2#

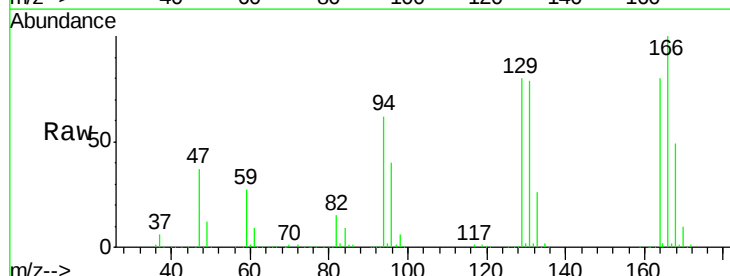


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0

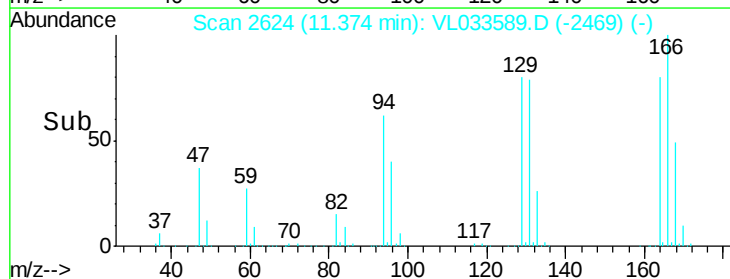
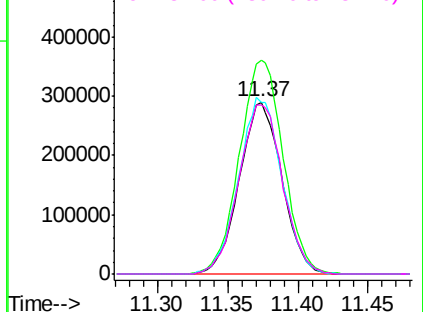


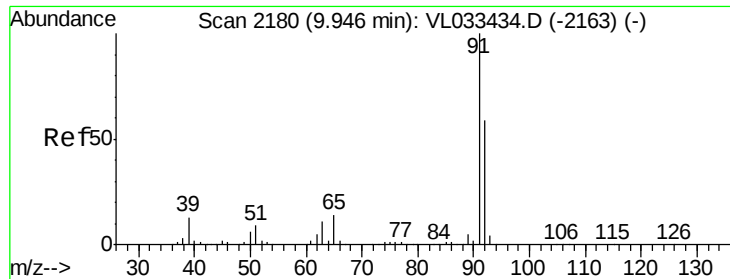
#52
Tetrachloroethene
Concen: 8.967 ppbv
RT: 11.37 min Scan# 2624
Delta R.T. -0.00 min
Lab File: VL033589.D
Acq: 16 Apr 2019 12:09

Tgt Ion: 164 Resp: 610046
Ion Ratio Lower Upper
164 100
166 124.1 99.5 149.3
129 99.9 81.4 122.2
131 98.3 75.6 113.4



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 8.978 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

Instrument :

MSVOA_L

ClientSampleId :

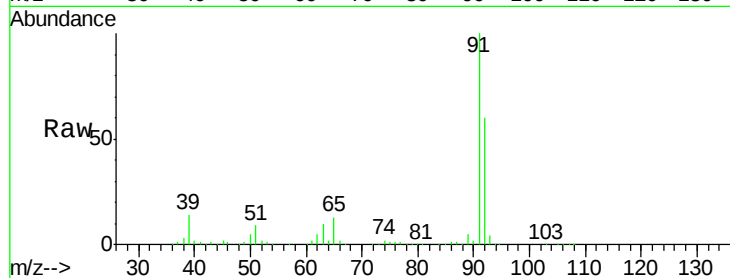
VL0416ABS01

Tot Ion: 91 Resp: 1881104

Ion Ratio Lower Upper

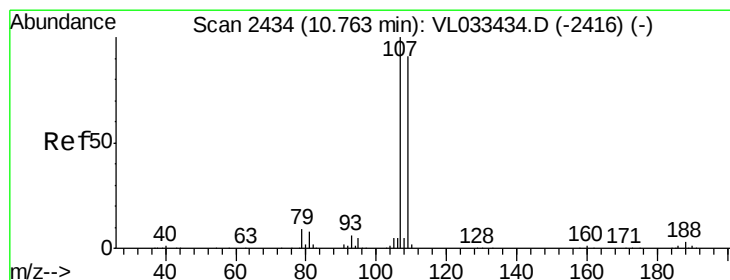
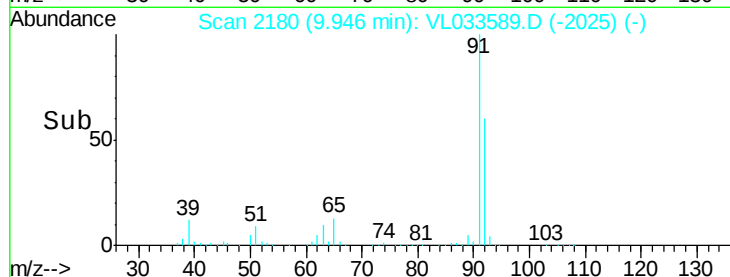
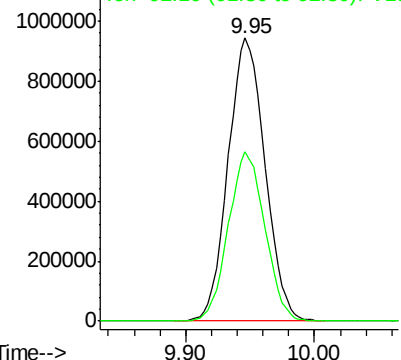
91 100

92 59.3 47.4 71.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 8.510 ppbv

RT: 10.76 min Scan# 2434

Delta R.T. -0.00 min

Lab File: VL033589.D

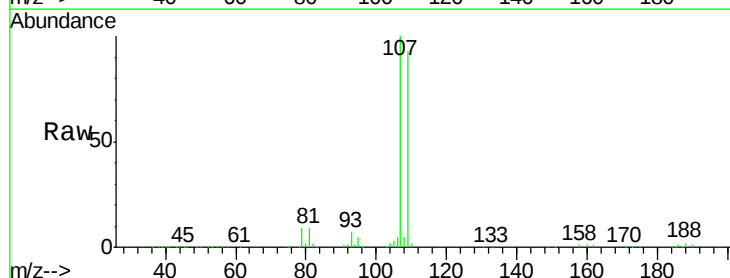
Acq: 16 Apr 2019 12:09

Tgt Ion:107 Resp: 1067599

Ion Ratio Lower Upper

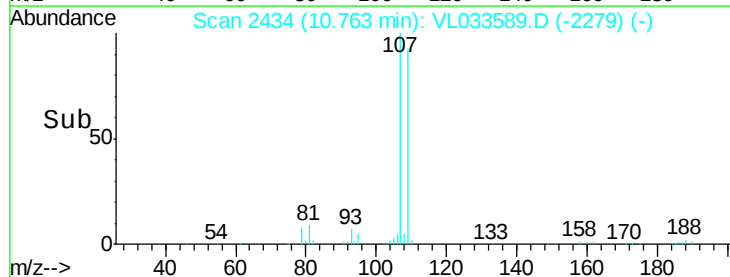
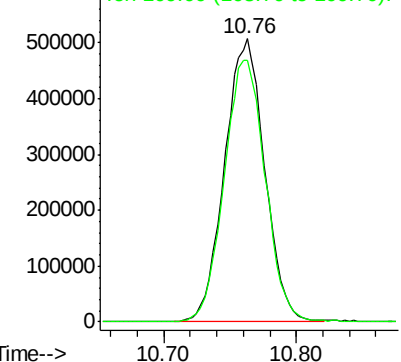
107 100

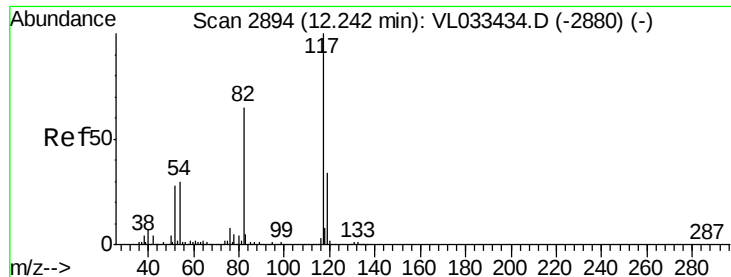
109 92.4 72.7 109.1



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#55

Chlorobenzene-d5

Concen: 10.000 ppbv m

RT: 12.24 min Scan# 2893

Delta R.T. -0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

Instrument :

MSVOA_L

ClientSampleId :

VL0416ABS01

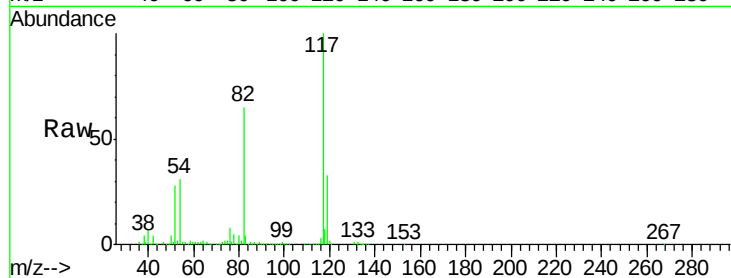
Tot Ion:117 Resp: 2278929

Ion Ratio Lower Upper

117 100

82 63.6 51.5 77.3

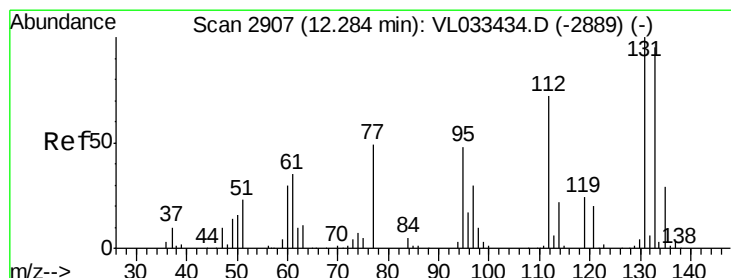
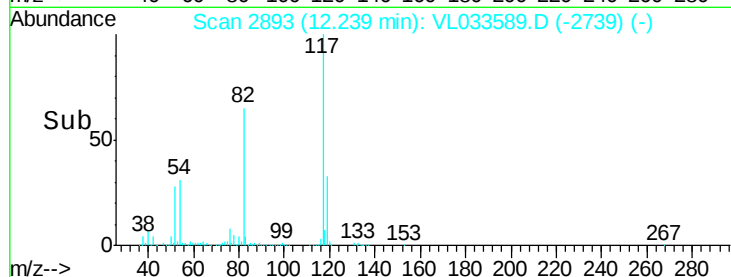
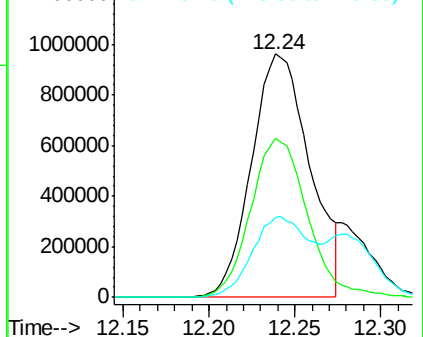
119 53.6 25.5 38.3#



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: 8.441 ppbv

RT: 12.28 min Scan# 2906

Delta R.T. -0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

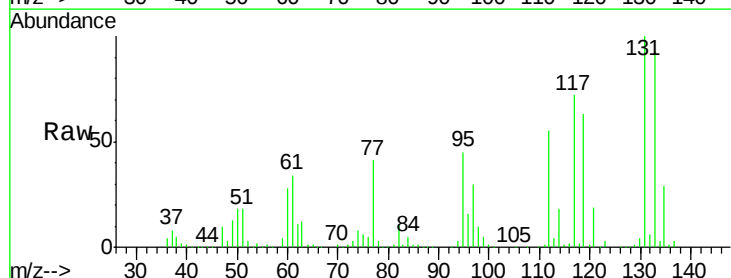
Tgt Ion:131 Resp: 881615

Ion Ratio Lower Upper

131 100

133 94.3 76.2 114.4

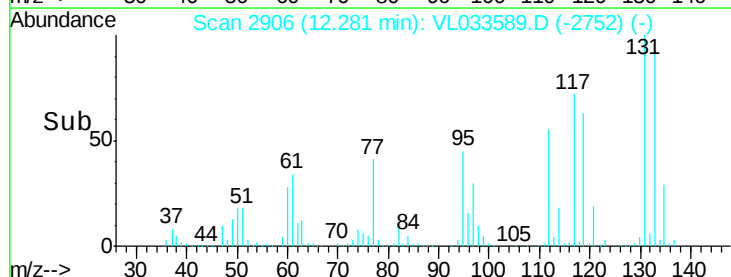
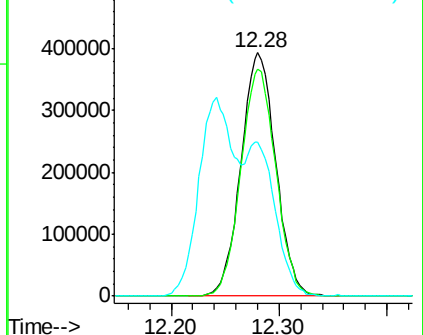
119 55.0 45.0 67.6

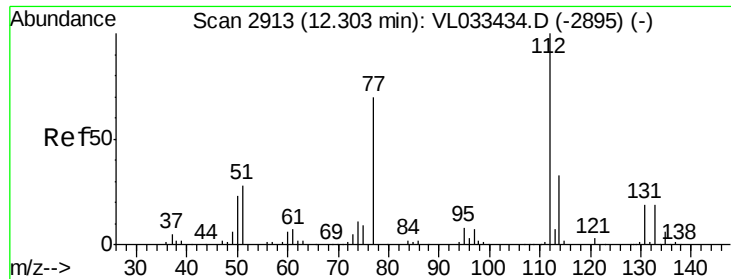


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

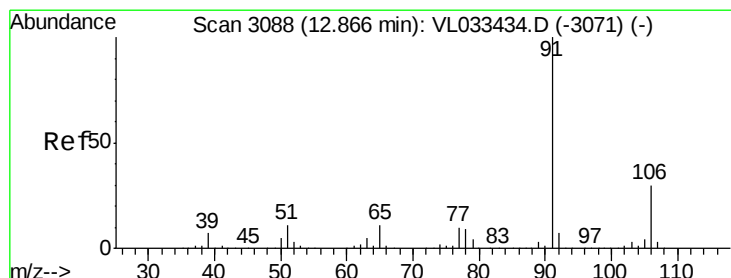
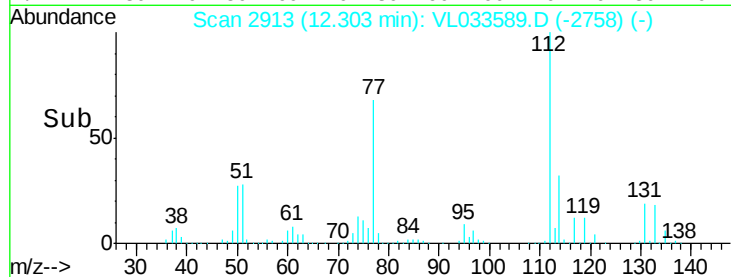
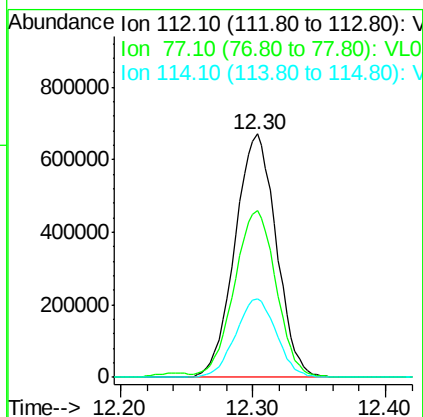
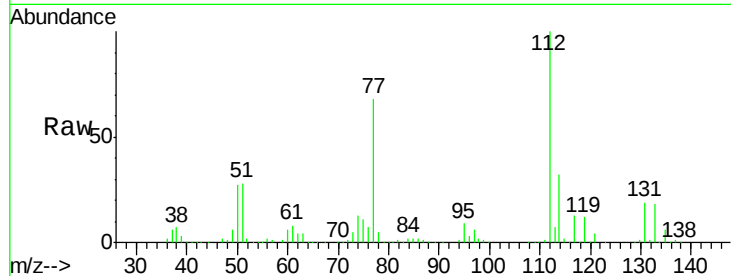




#57
Chlorobenzene
Concen: 8.198 ppbv
RT: 12.30 min Scan# 2913
Delta R.T. -0.00 min
Lab File: VL033589.D
Acq: 16 Apr 2019 12:09

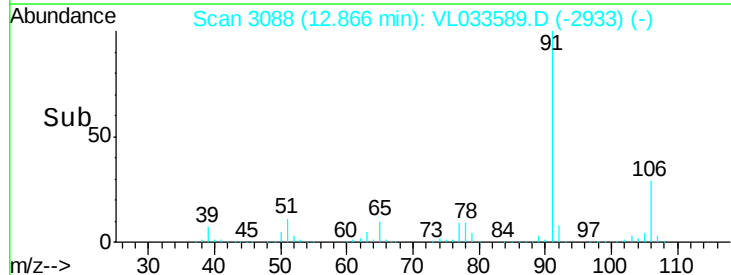
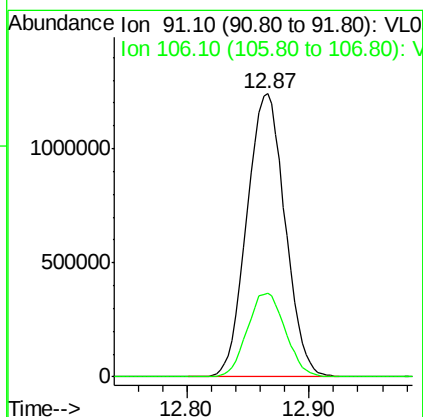
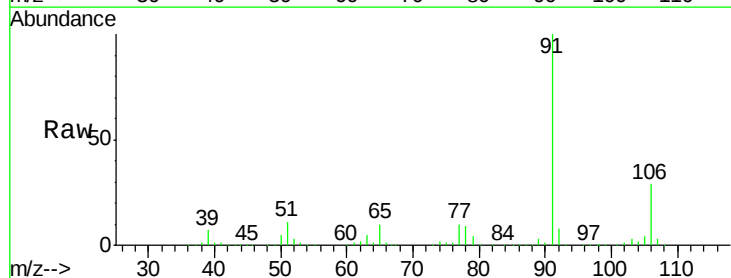
Instrument :
MSVOA_L
ClientSampleId :
VL0416ABS01

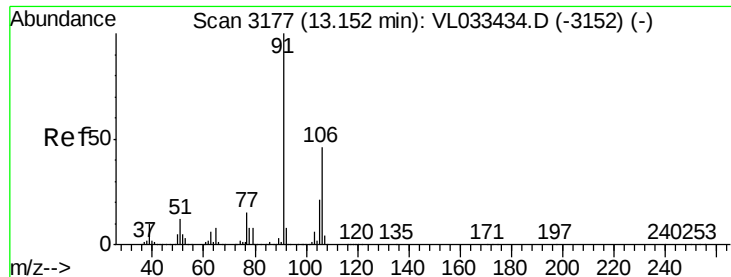
Tot Ion:112 Resp: 1450648
Ion Ratio Lower Upper
112 100
77 68.3 57.3 85.9
114 32.3 29.8 36.4



#58
Ethyl Benzene
Concen: 8.801 ppbv
RT: 12.87 min Scan# 3088
Delta R.T. -0.00 min
Lab File: VL033589.D
Acq: 16 Apr 2019 12:09

Tgt Ion: 91 Resp: 2678382
Ion Ratio Lower Upper
91 100
106 29.5 23.8 35.6





#59

m/p-Xylene

Concen: 16.567 ppbv m

RT: 13.15 min Scan# 3176

Delta R.T. -0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

Instrument :

MSVOA_L

ClientSampleId :

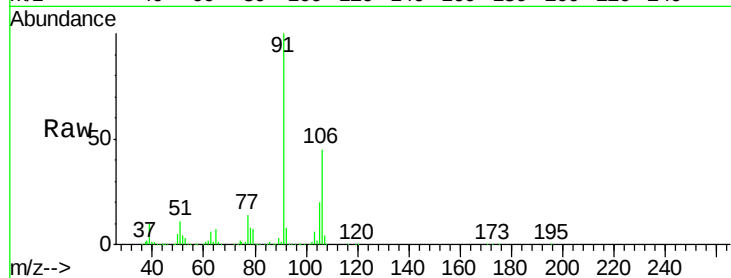
VL0416ABS01

Tot Ion: 91 Resp: 4503428

Ion Ratio Lower Upper

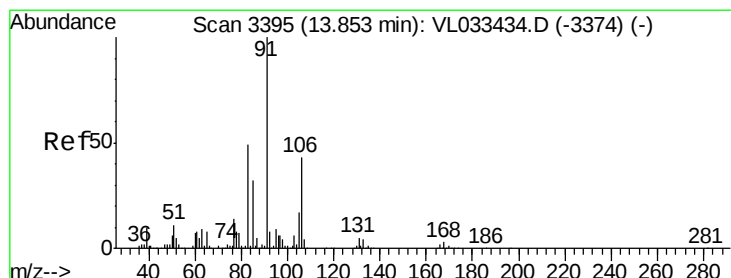
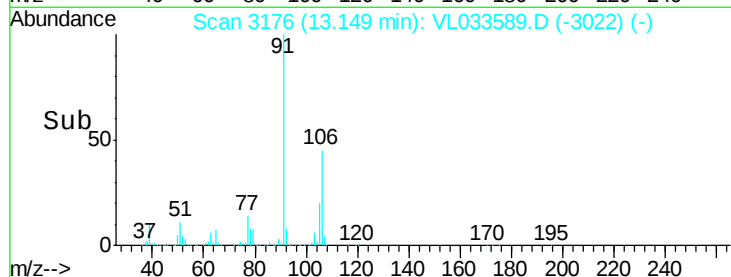
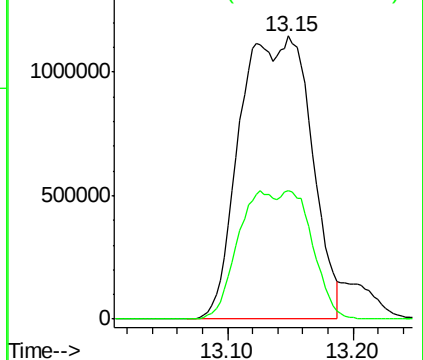
91 100

106 0.0 0.0 0.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 8.571 ppbv

RT: 13.85 min Scan# 3394

Delta R.T. -0.00 min

Lab File: VL033589.D

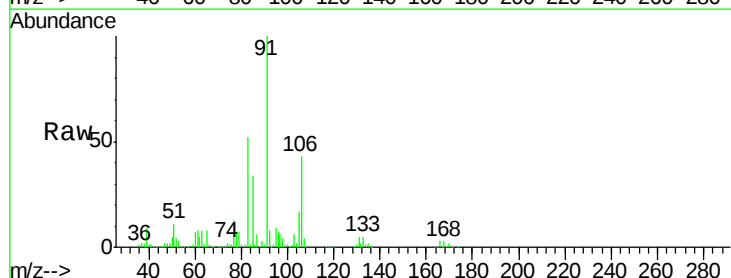
Acq: 16 Apr 2019 12:09

Tgt Ion: 91 Resp: 2252944

Ion Ratio Lower Upper

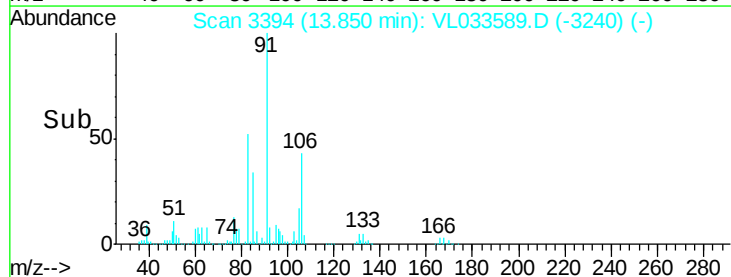
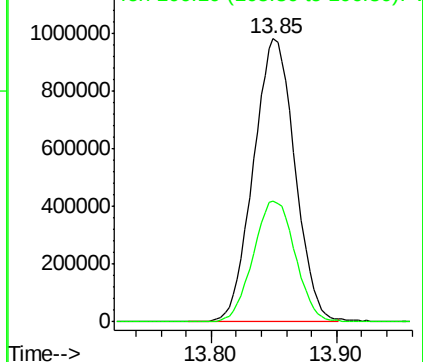
91 100

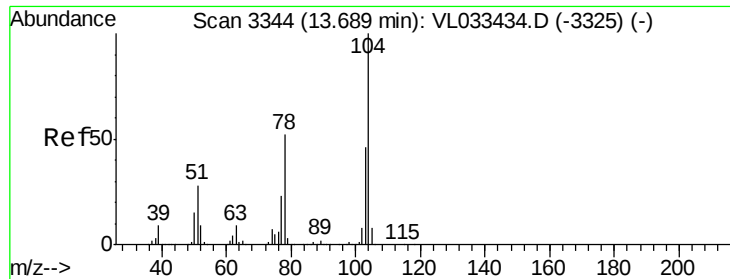
106 43.4 21.4 64.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

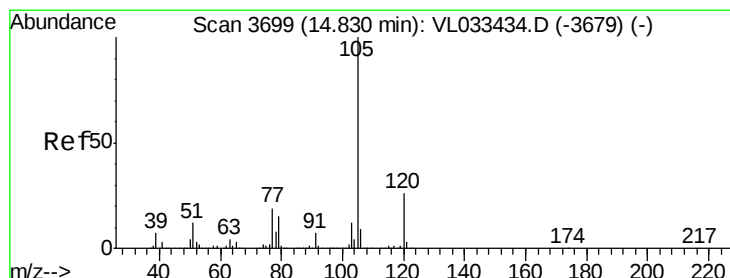
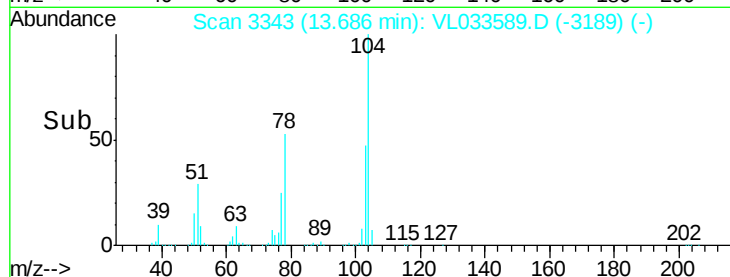
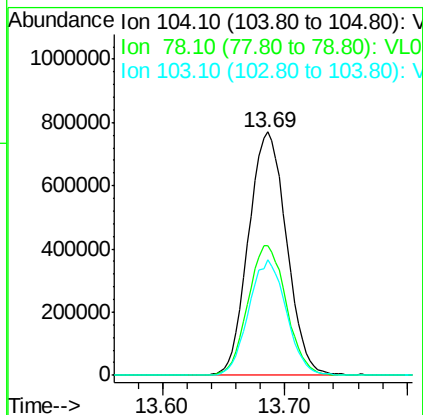
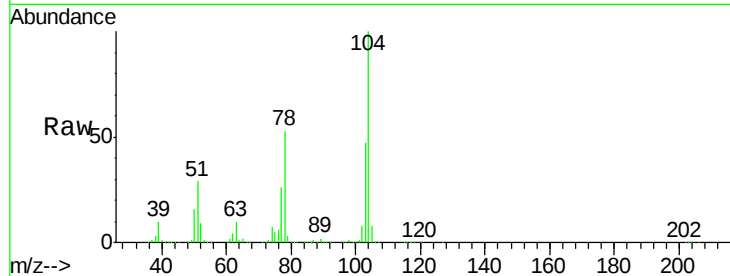




#61
Stvrene
Concen: 9.188 ppbv
RT: 13.69 min Scan# 3343
Delta R.T. -0.00 min
Lab File: VL033589.D
Acq: 16 Apr 2019 12:09

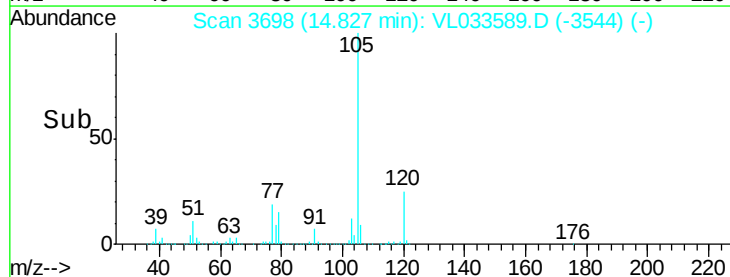
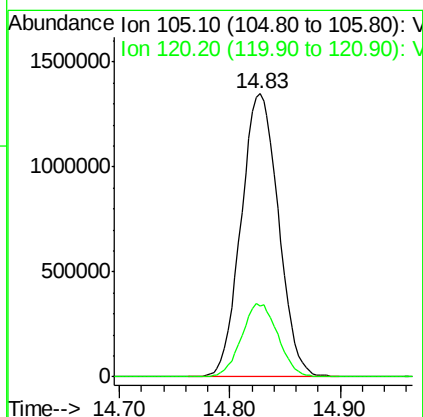
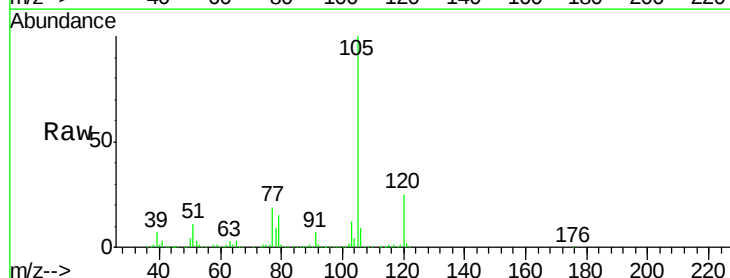
Instrument :
MSVOA_L
ClientSampleId :
VL0416ABS01

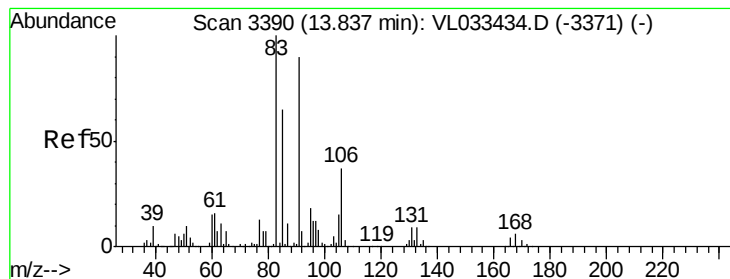
Tot Ion:104 Resp: 1657537
Ion Ratio Lower Upper
104 100
78 53.7 43.2 64.8
103 47.0 37.8 56.8



#62
Isopropylbenzene
Concen: 8.509 ppbv
RT: 14.83 min Scan# 3698
Delta R.T. -0.00 min
Lab File: VL033589.D
Acq: 16 Apr 2019 12:09

Tgt Ion:105 Resp: 3167419
Ion Ratio Lower Upper
105 100
120 25.3 20.2 30.2





#63

1,1,2,2-Tetrachloroethane

Concen: 8.241 ppbv

RT: 13.84 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

Instrument :

MSVOA_L

ClientSampleId :

VL0416ABS01

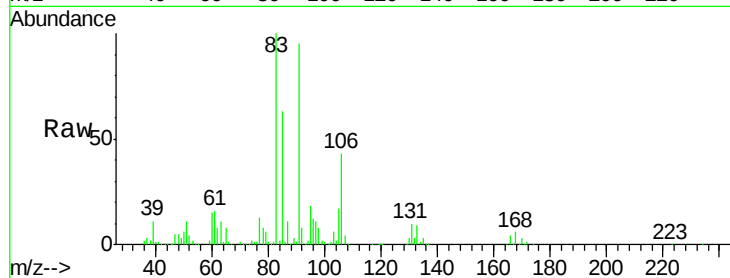
Tot Ion: 83 Resp: 1595148

Ion Ratio Lower Upper

83 100

131 9.5 4.7 14.0

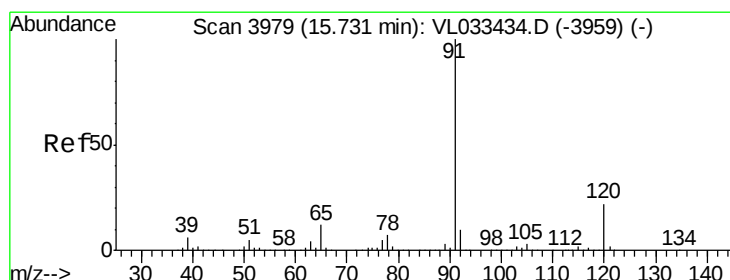
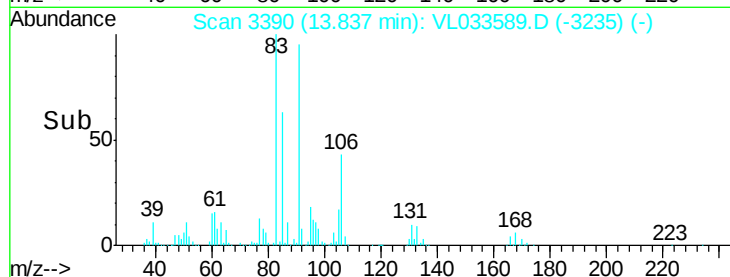
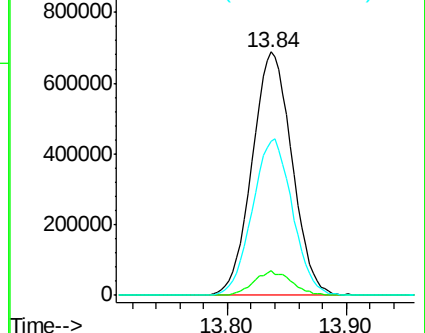
85 64.7 32.7 98.1



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: 8.725 ppbv

RT: 15.72 min Scan# 3977

Delta R.T. -0.01 min

Lab File: VL033589.D

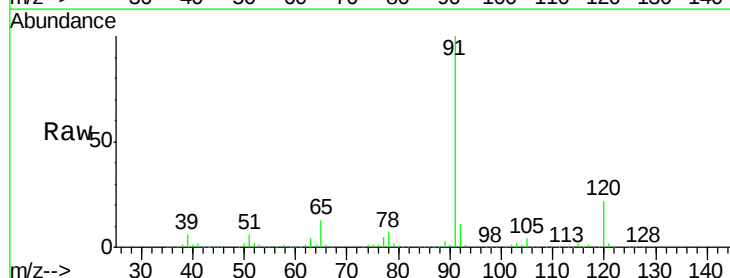
Acq: 16 Apr 2019 12:09

Tgt Ion:120 Resp: 824096

Ion Ratio Lower Upper

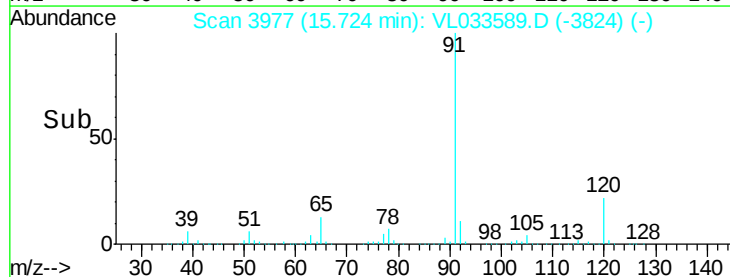
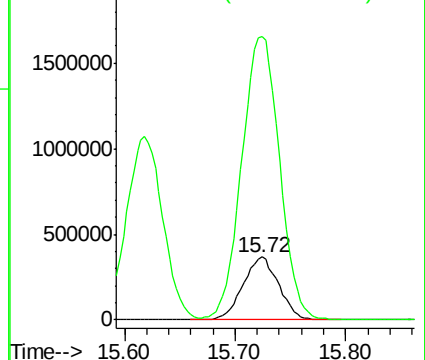
120 100

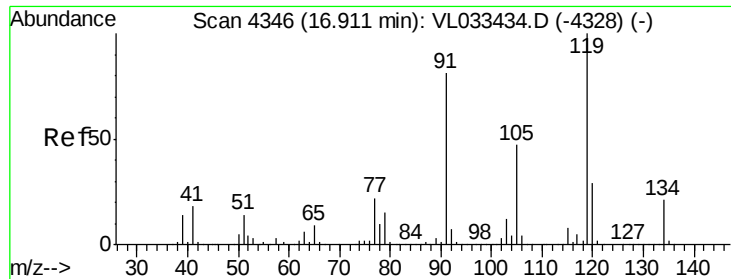
91 478.5 387.4 581.2



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 8.773 ppbv

RT: 16.91 min Scan# 4346

Delta R.T. -0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

Instrument :

MSVOA_L

ClientSampleID :

VL0416ABS01

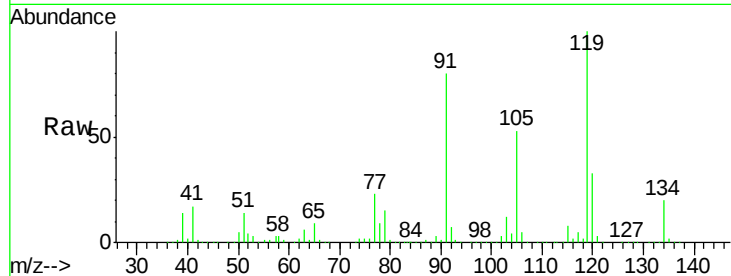
Tot Ion:119 Resp: 2877687

Ion Ratio Lower Upper

119 100

91 82.3 66.4 99.6

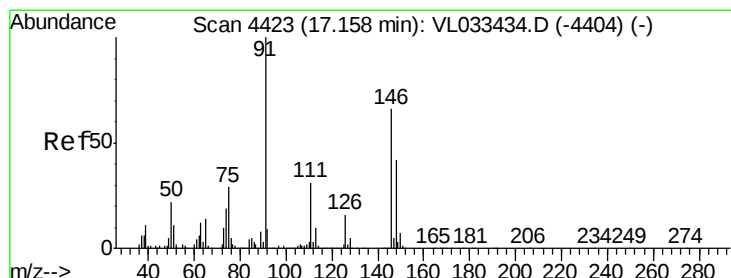
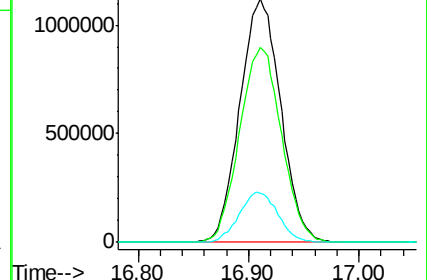
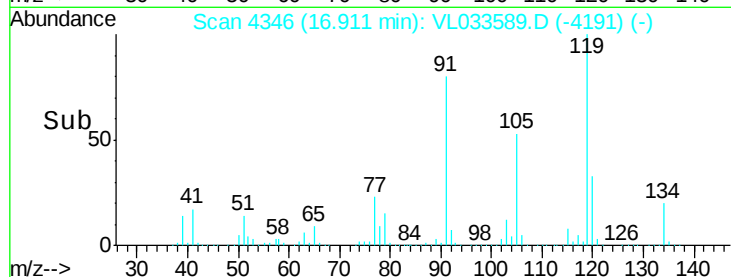
134 19.6 15.5 23.3



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: 10.766 ppbv

RT: 17.16 min Scan# 4423

Delta R.T. -0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

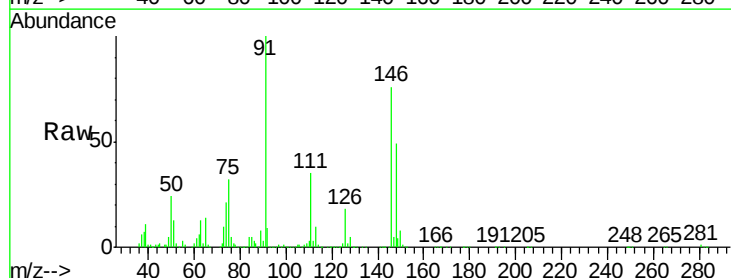
Tgt Ion: 91 Resp: 1642108

Ion Ratio Lower Upper

91 100

126 16.7 13.0 19.6

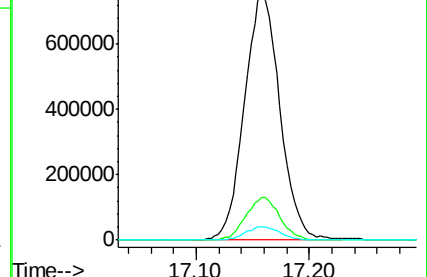
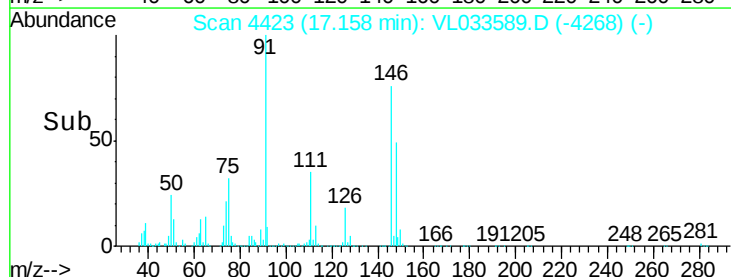
128 5.4 4.2 6.2

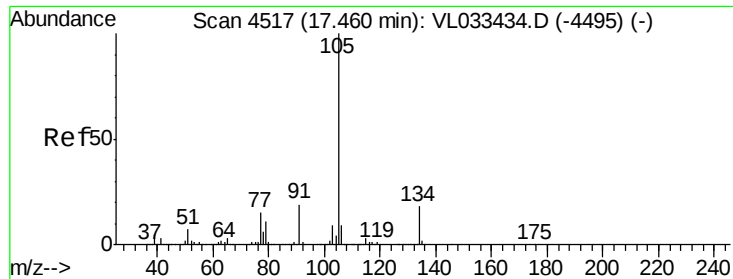


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 8.768 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. -0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

Instrument :

MSVOA_L

ClientSampleId :

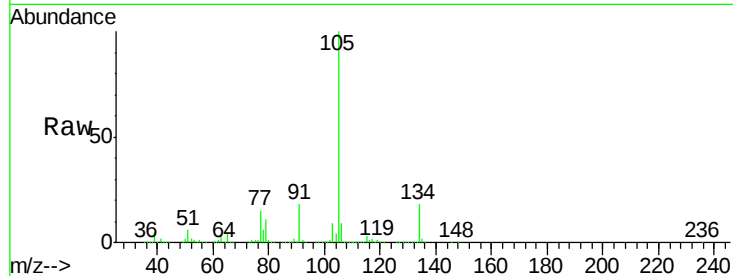
VL0416ABS01

Tot Ion:105 Resp: 4090222

Ion Ratio Lower Upper

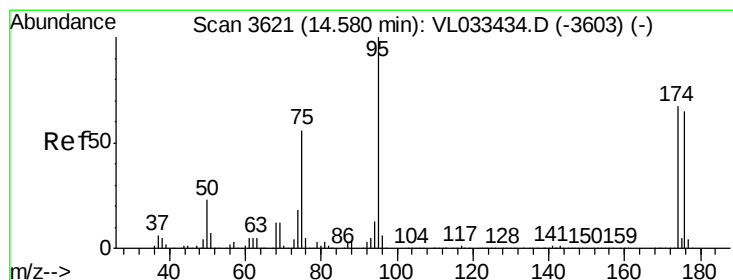
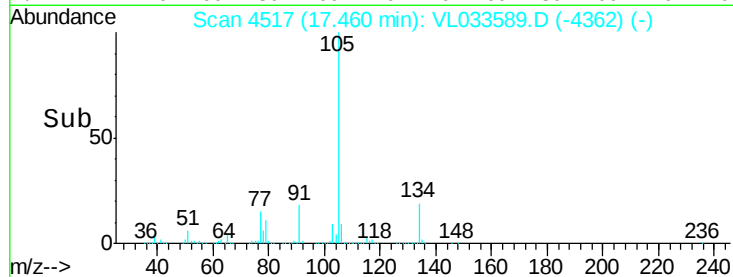
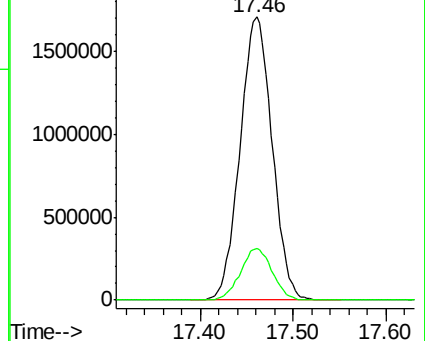
105 100

134 18.1 14.6 21.8



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: 9.908 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

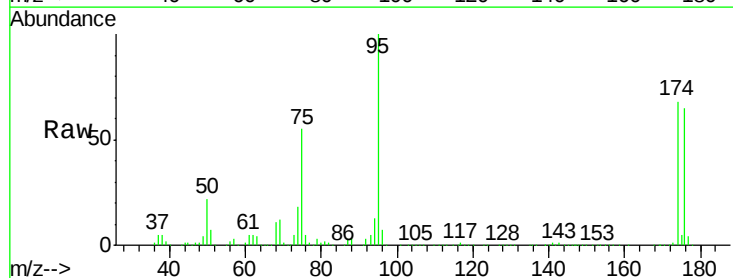
Tgt Ion: 95 Resp: 1770117

Ion Ratio Lower Upper

95 100

174 68.0 52.9 79.3

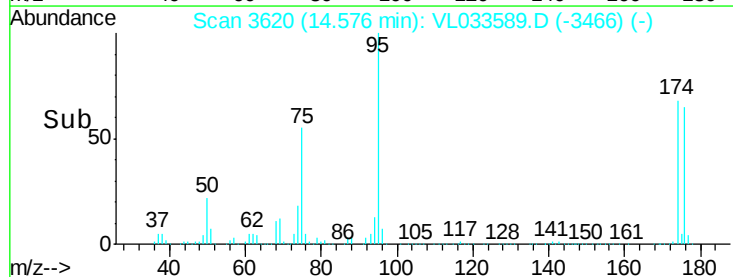
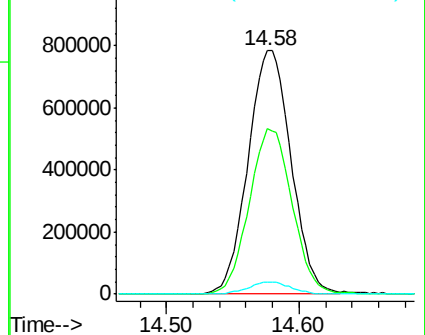
175 4.9 3.8 5.6

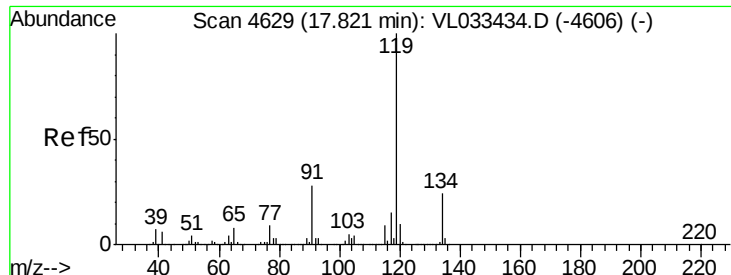


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

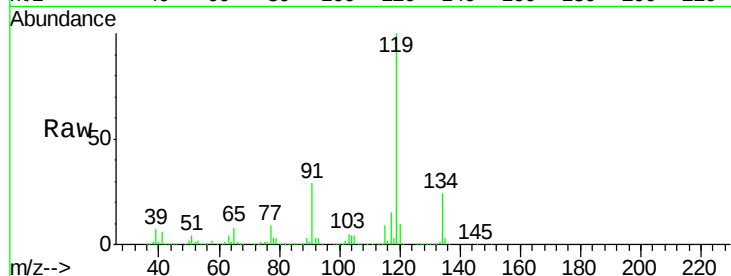




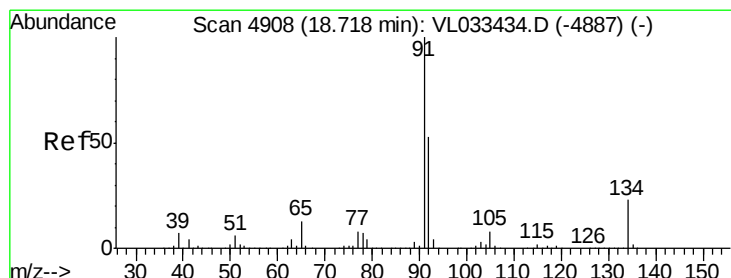
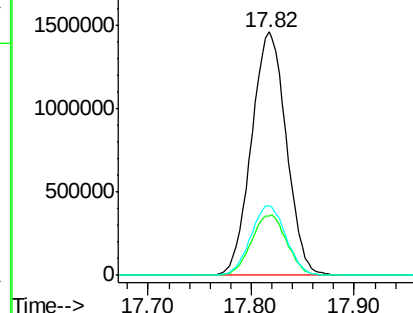
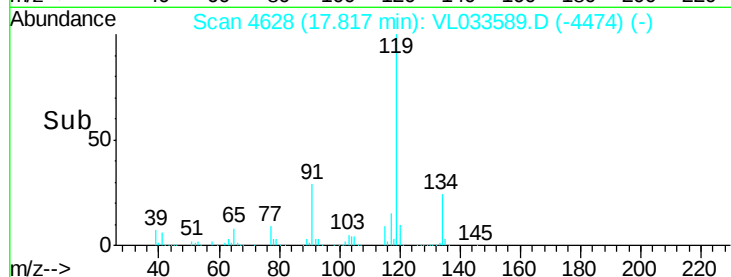
#69
p-Isopropyltoluene
Concen: 8.997 ppbv
RT: 17.82 min Scan# 4628
Delta R.T. -0.00 min
Lab File: VL033589.D
Acq: 16 Apr 2019 12:09

Instrument :
MSVOA_L
ClientSampleId :
VL0416ABS01

Tot Ion:119 Resp: 3417300
Ion Ratio Lower Upper
119 100
134 25.2 19.9 29.9
91 29.1 23.4 35.0

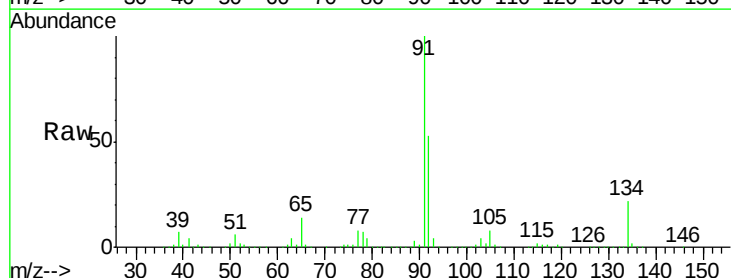


Abundance Ion 119.10 (118.80 to 119.80): V
Ion 134.20 (133.90 to 134.90): V
Ion 91.10 (90.80 to 91.80): V

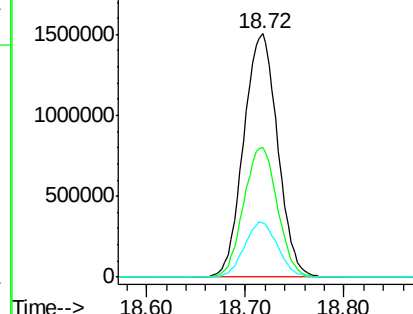
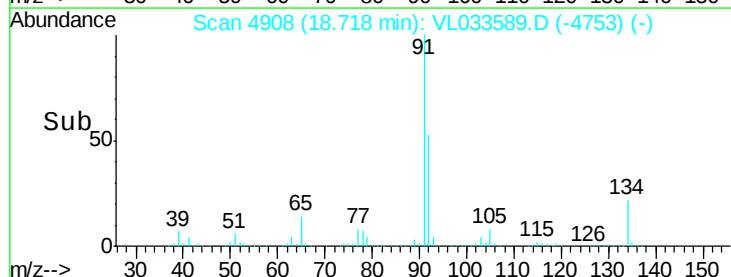


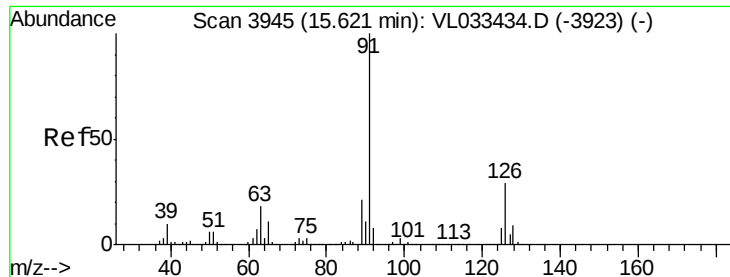
#70
n-Butylbenzene
Concen: 8.881 ppbv
RT: 18.72 min Scan# 4908
Delta R.T. -0.00 min
Lab File: VL033589.D
Acq: 16 Apr 2019 12:09

Tgt Ion: 91 Resp: 3574051
Ion Ratio Lower Upper
91 100
92 53.0 42.6 64.0
134 22.2 17.5 26.3



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: 8.690 ppbv

RT: 15.62 min Scan# 3944

Delta R.T. -0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

Instrument :

MSVOA_L

ClientSampleId :

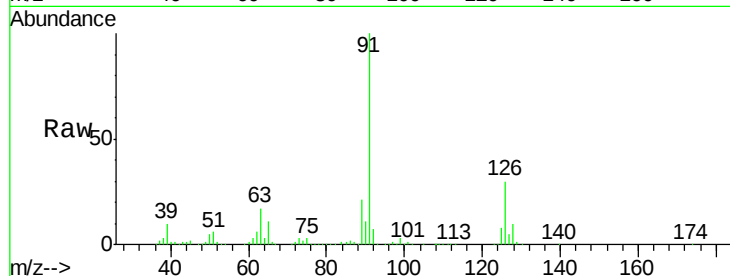
VL0416ABS01

Tot Ion: 91 Resp: 2459619

Ion Ratio Lower Upper

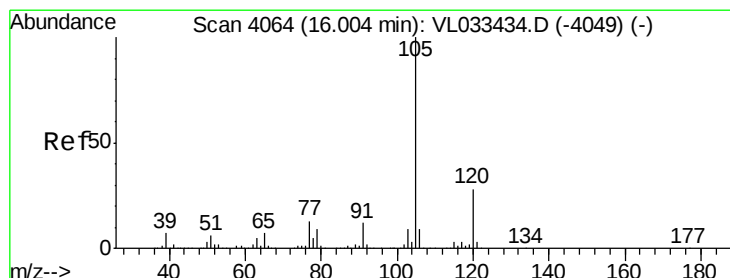
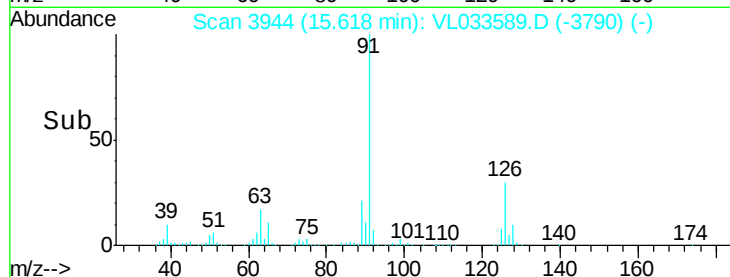
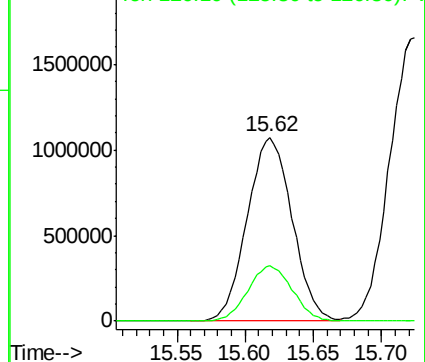
91 100

126 29.8 11.7 46.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 8.997 ppbv

RT: 16.00 min Scan# 4063

Delta R.T. -0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

Tgt Ion:105 Resp: 2658374

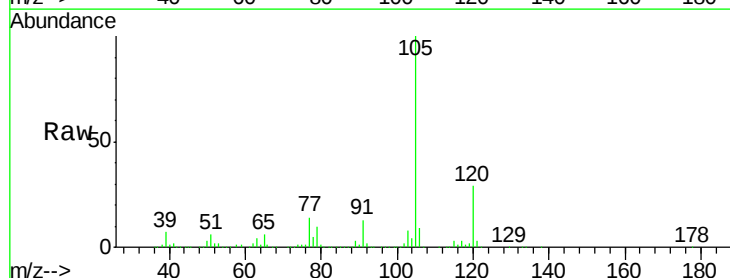
Ion Ratio Lower Upper

105 100

120 29.3 23.2 34.8

91 13.1 10.4 15.6

77 13.8 11.3 16.9

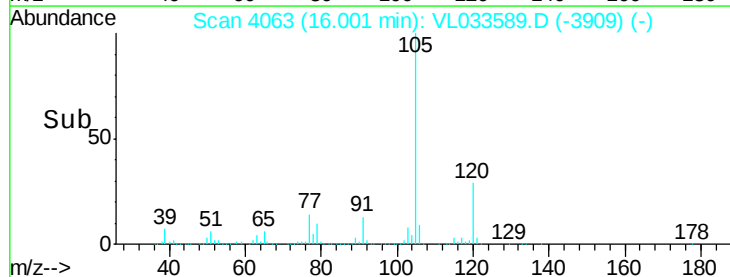
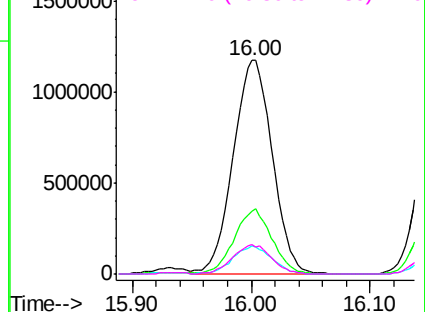


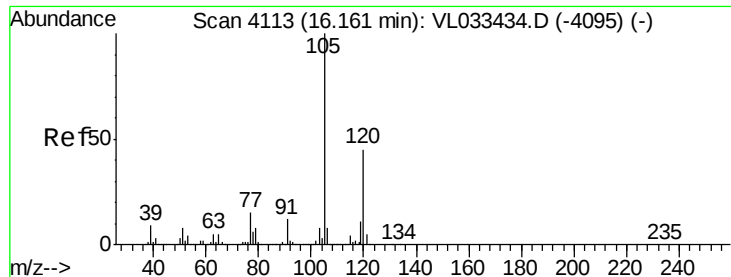
Abundance Ion 105.10 (104.80 to 105.80): V

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: 9.082 ppbv

RT: 16.16 min Scan# 4112

Delta R.T. -0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

Instrument :

MSVOA_L

ClientSampleId :

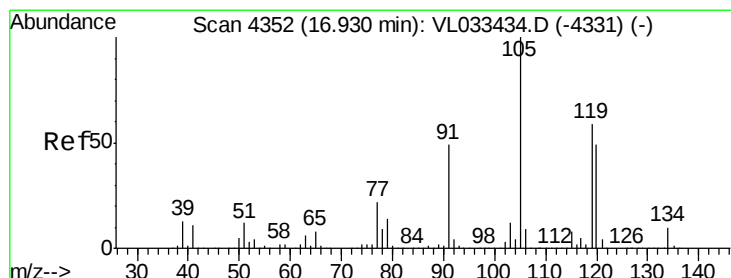
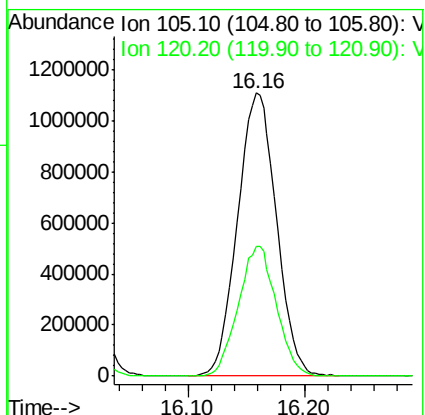
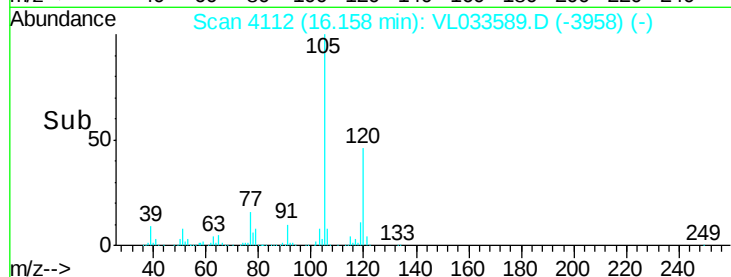
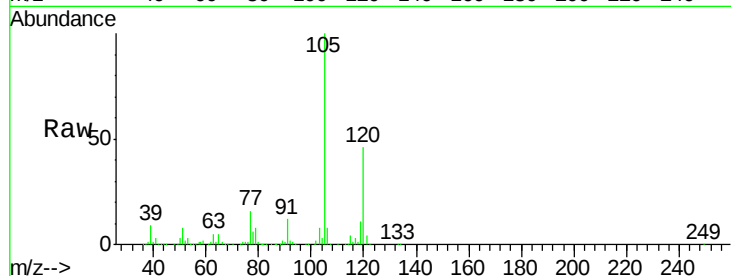
VL0416ABS01

Tot Ion:105 Resp: 2568132

Ion Ratio Lower Upper

105 100

120 45.9 35.7 53.5



#74

1,2,4-Trimethylbenzene

Concen: 8.754 ppbv

RT: 16.93 min Scan# 4351

Delta R.T. -0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

Tgt Ion:105 Resp: 2653101

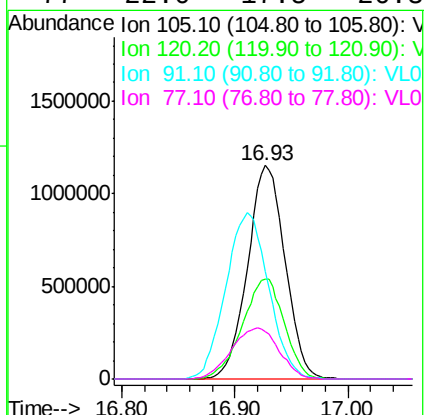
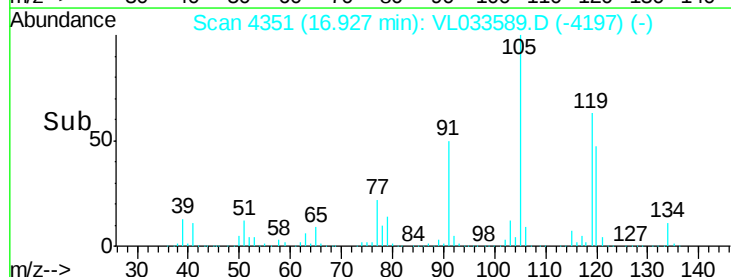
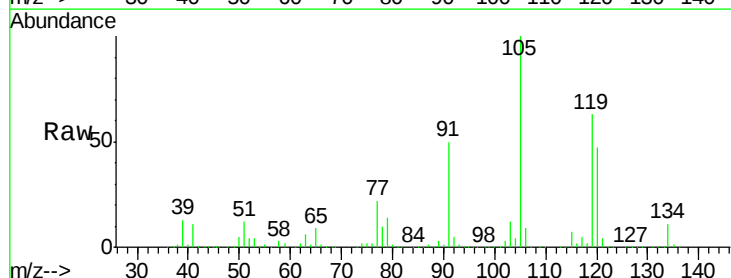
Ion Ratio Lower Upper

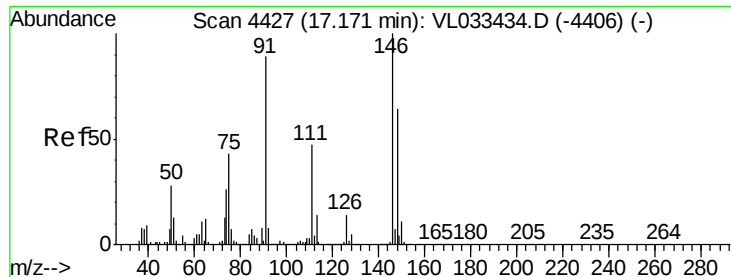
105 100

120 46.8 39.0 58.6

91 50.2 40.0 60.0

77 22.0 17.5 26.3





#75

1,3-Dichlorobenzene

Concen: 8.543 ppbv

RT: 17.17 min Scan# 4426

Delta R.T. -0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

Instrument :

MSVOA_L

ClientSampleId :

VL0416ABS01

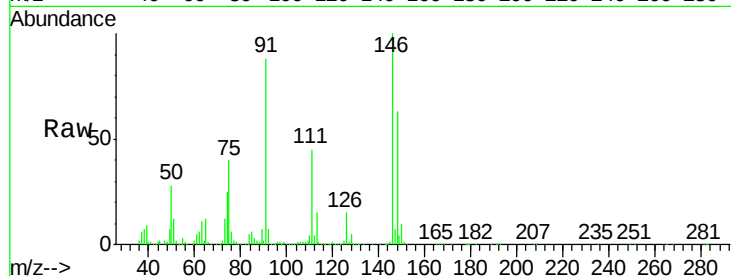
Tot Ion:146 Resp: 1600302

Ion Ratio Lower Upper

146 100

111 44.8 22.9 68.8

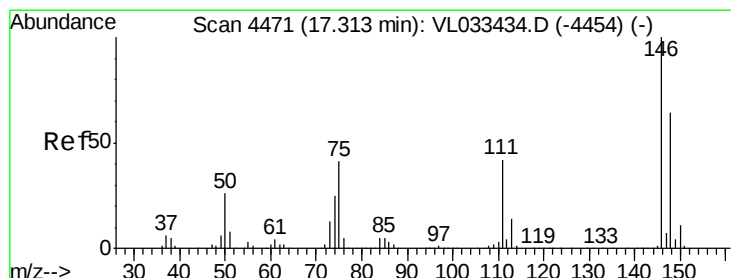
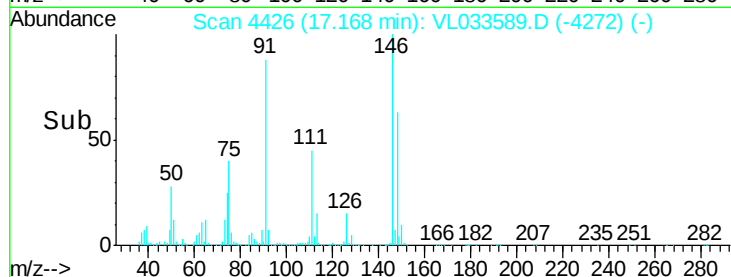
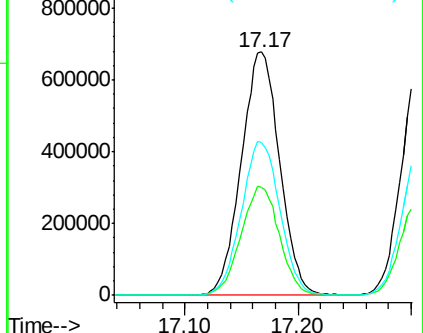
148 63.7 32.0 96.2



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: 8.732 ppbv

RT: 17.31 min Scan# 4470

Delta R.T. -0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

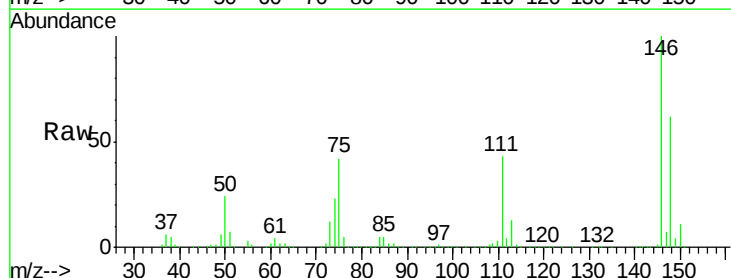
Tgt Ion:146 Resp: 1593644

Ion Ratio Lower Upper

146 100

111 43.7 21.7 65.1

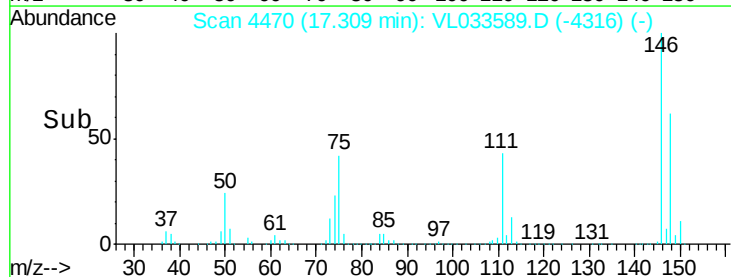
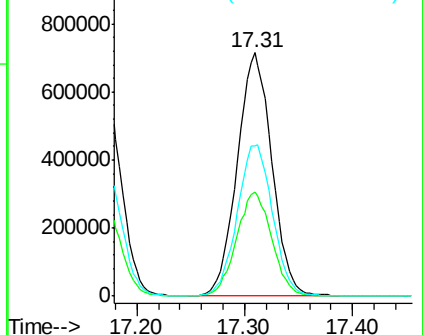
148 63.8 32.0 96.2

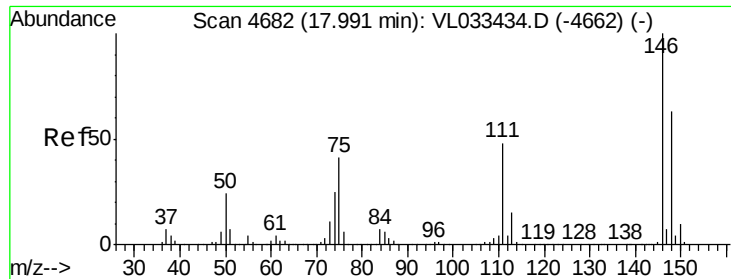


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 8.700 ppbv

RT: 17.99 min Scan# 4682

Delta R.T. -0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

Instrument :

MSVOA_L

ClientSampleId :

VL0416ABS01

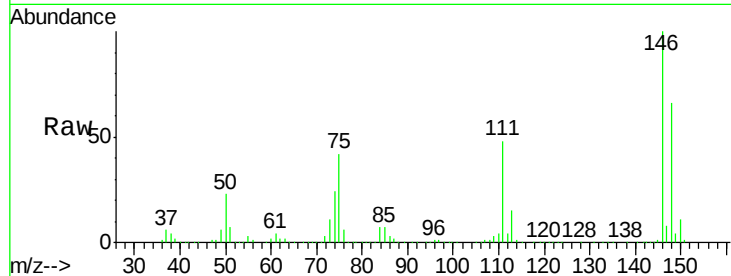
Tot Ion:146 Resp: 1546161

Ion Ratio Lower Upper

146 100

111 46.5 23.5 70.5

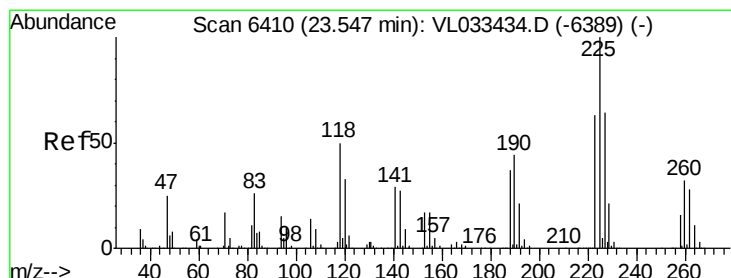
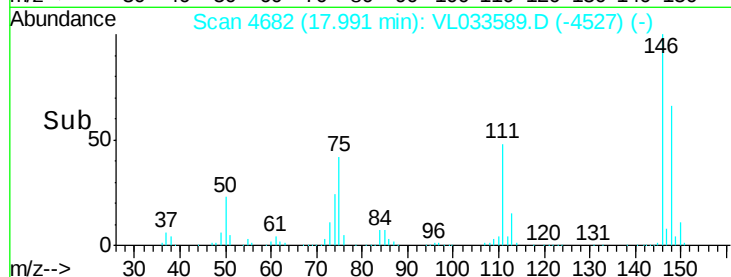
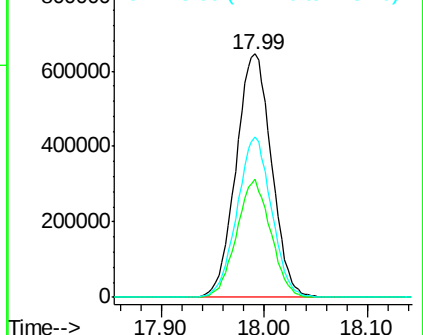
148 64.0 32.0 96.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 7.799 ppbv

RT: 23.54 min Scan# 6409

Delta R.T. -0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

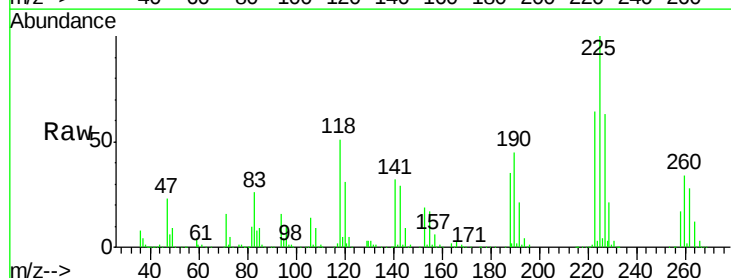
Tgt Ion:225 Resp: 917519

Ion Ratio Lower Upper

225 100

223 62.5 50.0 75.0

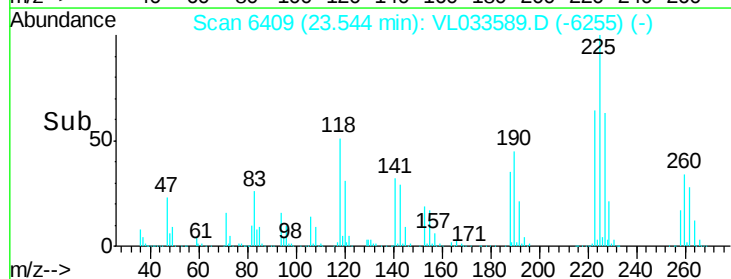
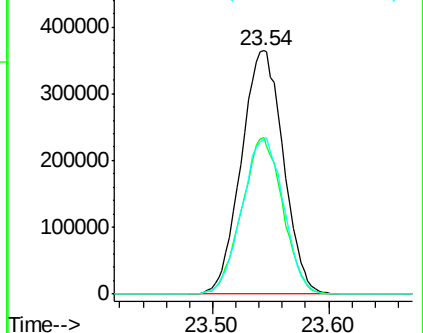
227 63.6 51.1 76.7

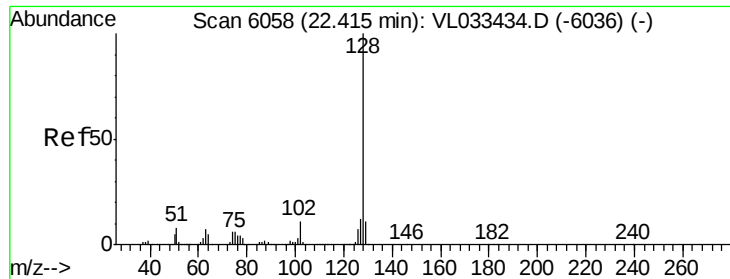


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 10.021 ppbv

RT: 22.41 min Scan# 6057

Delta R.T. -0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

Instrument :

MSVOA_L

ClientSampleId :

VL0416ABS01

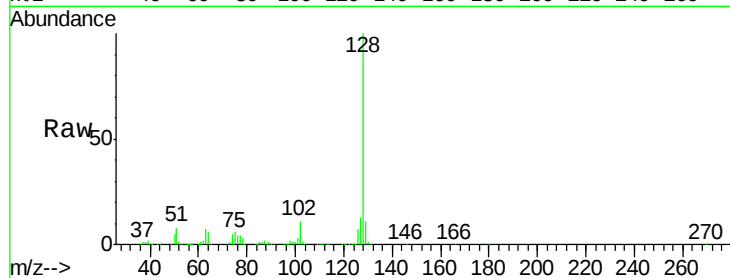
Tot Ion:128 Resp: 2599813

Ion Ratio Lower Upper

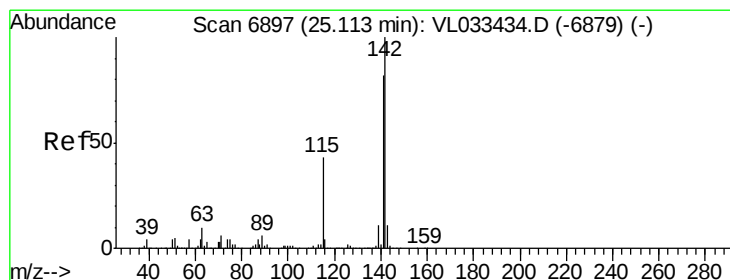
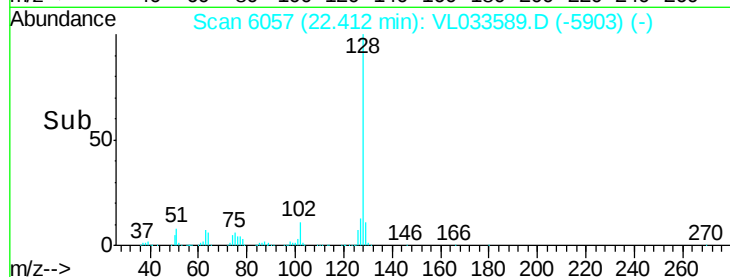
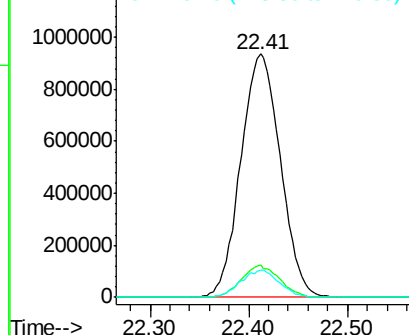
128 100

127 13.0 9.8 14.8

129 11.1 8.6 12.8



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



#80

Naphthalene, 2-methyl-

Concen: 10.076 ppbv

RT: 25.11 min Scan# 6897

Delta R.T. -0.00 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

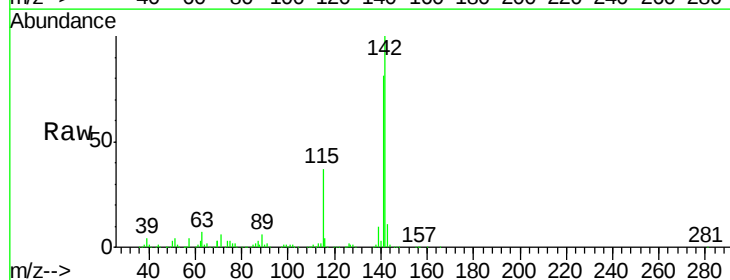
Tgt Ion:142 Resp: 877326

Ion Ratio Lower Upper

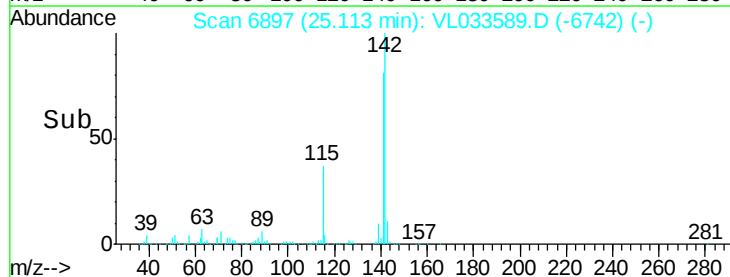
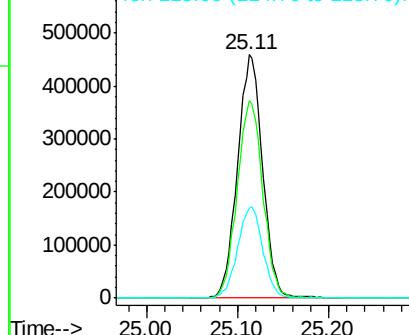
142 100

141 83.0 66.6 99.8

115 38.2 34.4 51.6



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





#81

1,2,4-Trichlorobenzene

Concen: 9.479 ppbv

RT: 22.14 min Scan# 5971

Delta R.T. -0.01 min

Lab File: VL033589.D

Acq: 16 Apr 2019 12:09

Instrument :

MSVOA_L

ClientSampleId :

VL0416ABS01

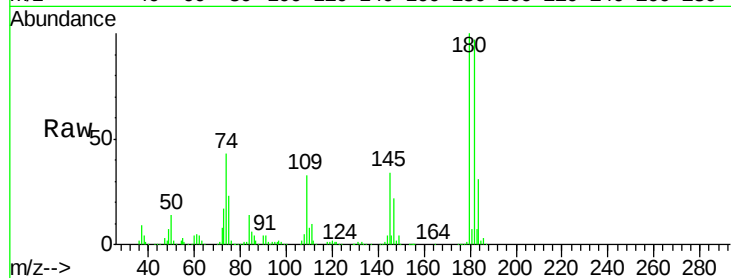
Tot Ion:180 Resp: 1364080

Ion Ratio Lower Upper

180 100

182 95.9 77.0 115.4

184 30.3 24.6 36.8



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

